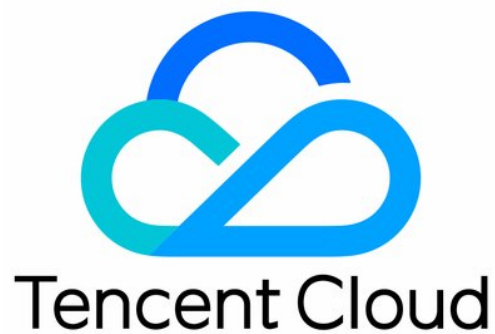


Tencent Kubernetes Engine

API Documentation

Product Documentation



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Last updated : 2024-07-19 16:13:14

Release 41

Release time: 2023-09-18 15:53:40

Release updates:

Improvement to existing documentation.

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Release 40

Release time: 2023-05-12 10:41:16

Release updates:

Improvement to existing documentation.

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Release 39

Release time: 2023-04-13 11:17:15

Release updates:

Improvement to existing documentation.

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Release 38

Release time: 2023-03-24 17:47:26

Release updates:

Improvement to existing documentation.

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Release 37

Release time: 2023-03-15 09:54:22

Release updates:

Improvement to existing documentation.

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Release 36

Release time: 2023-02-01 15:39:01

Release updates:

Improvement to existing documentation.

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Release time: 2023-01-04 10:35:12

Release updates:

Improvement to existing documentation.

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Release 34

Release time: 2022-10-17 11:07:23

Release updates:

Improvement to existing documentation.

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Release time: 2022-09-19 11:01:19

Release updates:

Improvement to existing documentation.

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Release 32

Release time: 2022-08-23 11:13:46

Release updates:

Improvement to existing documentation.

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Release 31

Release time: 2022-08-01 15:50:35

Release updates:

Improvement to existing documentation.

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Release 30

Release time: 2022-07-26 11:06:22

Release updates:

Improvement to existing documentation.

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Release 29

Release time: 2022-06-20 16:16:47

Release updates:

Improvement to existing documentation.

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Release 28

Release time: 2022-04-26 15:50:12

Release updates:

Improvement to existing documentation.

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Release 27

Release time: 2022-04-07 10:40:15

Release updates:

Improvement to existing documentation.

Modified APIs:

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New data structures:

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Release 26

Release time: 2022-03-17 11:00:52

Release updates:

Improvement to existing documentation.

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Release 25

Release time: 2022-02-23 11:41:51

Release updates:

Improvement to existing documentation.

Modified APIs:

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Release 24

Release time: 2022-02-09 15:37:51

Release updates:

Improvement to existing documentation.

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Release 23

Release time: 2022-01-19 14:20:05

Release updates:

Improvement to existing documentation.

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Release time: 2022-01-07 11:43:07

Release updates:

Improvement to existing documentation.

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Release 21

Release time: 2021-12-06 10:47:29

Release updates:

Improvement to existing documentation.

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Release 20

Release time: 2021-10-20 16:44:35

Release updates:

Improvement to existing documentation.

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Release time: 2021-09-13 16:05:17

Release updates:

Improvement to existing documentation.

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Release time: 2021-08-30 15:27:48

Release updates:

Improvement to existing documentation.

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- [DescribePrometheusInstance](#)
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Modified APIs:

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Release 17

Release time: 2021-08-03 10:18:24

Release updates:

Improvement to existing documentation.

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- [DescribeEnableVpcCniProgress](#)
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Modified APIs:

- [AddExistedInstances](#)
 - New input parameters:InstanceAdvancedSettingsOverrides
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Release 16

Release time: 2021-07-08 16:46:38

Release updates:

Improvement to existing documentation.

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 - New members:DiskPartition
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Release 15

Release time: 2021-07-06 16:27:35

Release updates:

Improvement to existing documentation.

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 - New members:EnableExternalNode
- [ClusterAdvancedSettings](#)
 - New members:CiliumMode

Release 14

Release time: 2021-06-10 17:39:22

Release updates:

Improvement to existing documentation.

New APIs:

- [AddVpcCniSubnets](#)

Modified data structures:

- [ClusterNetworkSettings](#)
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Release time: 2021-05-12 10:26:27

Release updates:

Improvement to existing documentation.

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Release time: 2021-05-10 15:28:24

Release updates:

Improvement to existing documentation.

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Release time: 2021-04-22 14:43:53

Release updates:

Improvement to existing documentation.

Modified APIs:

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 - New input parameters:ExtraArgs

Modified data structures:

- [NodePool](#)
 - New members:DesiredPodNum, UserScript

Release 10

Release time: 2021-03-19 16:37:37

Release updates:

Improvement to existing documentation.

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 - New members:Etcd

Release 9

Release time: 2021-02-04 18:41:18

Release updates:

Improvement to existing documentation.

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Modified APIs:

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 - New input parameters:NodePoolOs, OsCustomizeType

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Release 8

Release time: 2021-01-07 19:54:27

Release updates:

Improvement to existing documentation.

Modified data structures:

- [NodePool](#)
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Release 7

Release time: 2021-01-05 19:20:59

Release updates:

Improvement to existing documentation.

New APIs:

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 - New input parameters:OsName, OsCustomizeType

New data structures:

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Release time: 2020-12-07 19:15:00

Release updates:

Improvement to existing documentation.

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Release 5

Release time: 2020-12-02 10:34:57

Release updates:

Improvement to existing documentation.

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- New members:RuntimeVersion

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Release time: 2020-11-13 19:22:37

Release updates:

Improvement to existing documentation.

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- [AddNodeToNodePool](#)
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- [CreateClusterNodePoolFromExistingAsg](#)
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- [NodePool](#)
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Modified data structures:

- [ClusterAdvancedSettings](#)
 - New members:VpcCniType

Release 3

Release time: 2020-10-22 16:03:43

Release updates:

Improvement to existing documentation.

New APIs:

- [AcquireClusterAdminRole](#)

Release 2

Release time: 2020-10-16 18:16:19

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeClusterKubeconfig](#)

Modified APIs:

- [CreateCluster](#)
 - New input parameters:ExtensionAddons

New data structures:

- [ExtensionAddon](#)

Existing Release

Release time: 2020-07-30 20:32:39

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

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- [CreateClusterEndpoint](#)

- [CreateClusterEndpointVip](#)
- [CreateClusterInstances](#)
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- [DeleteClusterEndpoint](#)
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- [DeleteClusterInstances](#)
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Existing data structures:

- [AutoScalingGroupRange](#)
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- [ClusterAdvancedSettings](#)
- [ClusterAsGroup](#)
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API Category

Last updated : 2024-07-24 10:37:02

Cluster APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AcquireClusterAdminRole	Acquiring the RBAC Admin role of a cluster	20
CreateClusterEndpoint	Create a cluster access port	20
CreateClusterEndpointVip	Creates a public network access port for a managed cluster (This API will be disused soon.)	20
DeleteCluster	Deletes a cluster	50
DeleteClusterEndpoint	Delete cluster access port	20
DeleteClusterEndpointVip	Delete the external network access port of the managed cluster	20
DescribeAvailableClusterVersion	Obtains all versions that the cluster can upgrade to	20
DescribeClusterAuthenticationOptions	Queries cluster authentication configuration	20
DescribeClusterCommonNames	Obtains the CommomName for the sub-account to access the cluster	20
DescribeClusterEndpointStatus	Query cluster access port status	20
DescribeClusterEndpointVipStatus	Query the progress of enabling the public network port for a managed cluster	20
DescribeClusterEndpoints	Queries cluster access addresses	20
DescribeClusterKubeconfig	Obtains the cluster kubeconfig file	20
DescribeClusterLevelAttribute	Obtains the cluster model	20
DescribeClusterLevelChangeRecords	Queries the cluster model adjustment history	20

DescribeClusterSecurity	Queries the key information of a cluster.	100
DescribeClusterStatus	Queries the information of clusters under the current account	20
DescribeClusters	Queries clusters list.	20
DescribeEdgeAvailableExtraArgs	Queries the custom parameters available for an edge cluster	20
DescribeEdgeClusterExtraArgs	Queries custom parameters of an edge cluster	20
DescribeResourceUsage	Queries the cluster resource usage	20
DisableClusterDeletionProtection	Disables cluster deletion protection	20
EnableClusterDeletionProtection	Enables cluster deletion protection	20
GetClusterLevelPrice	Obtaining the price of specified cluster model	20
GetUpgradeInstanceProgress	Obtains the current progress of the node upgrade	20
ModifyClusterAttribute	Modifies cluster attributes	20
ModifyClusterAuthenticationOptions	Modifies cluster authentication configuration	20
ModifyClusterEndpointSP	Modify the security policy of the external network port of the managed cluster	20
UpgradeClusterInstances	Upgrades cluster nodes	20
CreateBackupStorageLocation	Creates a backup repository	20
CreateCluster	Creates a cluster	20
DeleteBackupStorageLocation	Deletes a backup repository	20
DescribeBackupStorageLocations	Queries backup repositories	20
DescribeEncryptionStatus	Queries the encryption status of information	20
DisableEncryptionProtection	Disables encryption protection	20

EnableEncryptionProtection	Enables encryption protection	20
UpdateClusterKubeconfig	Updates Kubeconfig information of the cluster	20
UpdateClusterVersion	Upgrades cluster	20

Add-on APIs

API Name	Feature	Frequency Limit (maximum requests per second)
InstallAddon	Installs an add-on	20
DescribeAddonValues	Queries parameters of an add-on	20
UpdateAddon	Updates an add-on	20
DeleteAddon	Deletes an add-on	20
DescribeAddon	Queries the list of add-ons	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeImages	Gets image information	20
DescribeRegions	Queries the list of regions	20
DescribeVersions	Cluster version information	20

Network APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateClusterRouteTable	Creates a cluster route table.	20

DeleteClusterRoute	Deletes a cluster route.	20
DeleteClusterRouteTable	Deletes a cluster route table.	20
DescribeClusterRouteTables	Queries one or more cluster route tables.	50
DescribeClusterRoutes	Queries cluster routes.	50
DescribeEnableVpcCniProgress	Queries the async task progress of enabling VPC-CNI mode	20
DescribeRouteTableConflicts	Queries the list of route table conflicts.	20
DescribeVpcCniPodLimits	Queries the maximum number of Pods in the VPC-CNI mode supported by the model	20
EnableVpcCniNetworkType	Enables the VPC-CNI network mode	20
AddVpcCniSubnets	Adds the cluster subnets	20

Node APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CheckInstancesUpgradeAble	Checks whether the nodes can be upgraded	20
CreateClusterInstances	Creates one or more cluster nodes.	20
DeleteClusterInstances	Deletes one or more nodes from a cluster.	20
DescribeClusterInstances	Queries the information of one or more nodes in a cluster.	20
DescribeExistedInstances	Queries one or more existing nodes.	20
AddExistedInstances	Adds one or more existing instances to a cluster.	20

Node Pool APIs

--	--	--

API Name	Feature	Frequency Limit (maximum requests per second)
CreateClusterNodePool	Creates a node pool	20
DeleteClusterNodePool	Deletes a node pool	20
DescribeClusterNodePoolDetail	Queries detailed information of a node pool	20
DescribeClusterNodePools	Queries the node pool list.	20
ModifyClusterAsGroupOptionAttribute	Modifies cluster auto scaling attributes	20
ModifyClusterNodePool	Edits a node pool	20
RemoveNodeFromNodePool	Removes a node from a node pool but retains it in the cluster.	20
SetNodePoolNodeProtection	Enabling removal protection for the nodes in a node pool	20
AddNodeToNodePool	Moves nodes in a cluster to a node pool	20
DescribeClusterAsGroupOption	Cluster auto scaling configuration	20
ModifyNodePoolInstanceTypes	Modify the model of instances in a node pool	20

TKE Edge Cluster APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CheckEdgeClusterCIDR	Checks if the CIDR block of a TKE Edge cluster conflicts with other CIDR blocks	20
DescribeAvailableTKEEdgeVersion	Queries the K8s versions supported by TKE Edge.	20
DescribeECMInstances	Obtains the ECM instance information	20
DescribeEdgeCVMInstances	Obtains the edge CVM instance	20

	information	
DescribeEdgeClusterInstances	Queries the TKE Edge cluster node information	10
DescribeEdgeClusterUpgradeInfo	Queries the upgrade information of an edge cluster	20
DescribeTKEEdgeClusterStatus	Queries the TKE Edge cluster status	20
ForwardTKEEdgeApplicationRequestV3	Works with the add-ons of a TKE Edge cluster	20
DescribeEdgeLogSwitches	Queries TKE Edge cluster log switches	20
CreateECMInstances	Creates an ECM instance	20
CreateEdgeCVMInstances	Creates CVM instances in a TKE edge cluster	20
CreateEdgeLogConfig	Creates log collection configuration for a TKE Edge cluster	20
DeleteECMInstances	Deletes one or more ECM instances	20
DeleteEdgeCVMInstances	Deletes one or more edge CVM instances	20
DeleteEdgeClusterInstances	Deletes one or more edge compute instances	20
DeleteTKEEdgeCluster	Deletes a TKE Edge cluster	20
DescribeTKEEdgeClusterCredential	Obtains the authentication information of a TKE Edge cluster	20
DescribeTKEEdgeExternalKubeconfig	Obtains the kubeconfig for access to a TKE Edge cluster through the public network	20
InstallEdgeLogAgent	Installs the log collection add-on on TKE Edge cluster nodes	20
UninstallEdgeLogAgent	Uninstalls the log collection add-on from TKE Edge cluster nodes	20
DescribeTKEEdgeScript	Queries the URL of TKE edge script.	20
DescribeTKEEdgeClusters	Queries the list of TKE Edge clusters	20

UpdateEdgeClusterVersion	Upgrades an edge cluster version	20
CreateTKEEdgeCluster	Creates a TKE Edge cluster	20

Cloud Native Monitoring APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreatePrometheusAlertRule	Creates an alarm rule	20
DeletePrometheusAlertRule	Deletes an alarm rule	20
DescribePrometheusInstance	Obtains the instance details	20
ModifyPrometheusAlertRule	Modifies an alarm rule	20

Scaling group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteClusterAsGroups	Delete a cluster scaling group	20
DescribeClusterAsGroups	Cluster-associated scaling group list	20
ModifyClusterAsGroupAttribute	Modify cluster scaling group attributes	20

Virtual node APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DeleteClusterVirtualNode	Deletes a virtual node	20
DeleteClusterVirtualNodePool	Deletes a virtual node pool	20

DescribeClusterVirtualNode	Queries the list of virtual nodes	20
DescribeClusterVirtualNodePools	Queries the list of virtual node pools	20
DrainClusterVirtualNode	Drains a virtual node	20
CreateClusterVirtualNodePool	Creates a virtual node pool	20
ModifyClusterVirtualNodePool	Modifies a virtual node pool	20
CreateClusterVirtualNode	Creates a virtual node	20

Cluster APIs

DescribeEncryptionStatus

Last updated : 2023-09-18 16:00:26

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the encryption status of etcd data.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEncryptionStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

Status	String	Encryption status
ErrorMsg	String	Encryption error message
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the KMS encryption status

This example shows you how to query the KMS encryption status.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeEncryptionStatus
<Common request parameters>

{
  "ClusterId": "cls-mu2or8b8"
}
```

Output Example

```
{
  "Response": {
    "Status": "Opened",
    "ErrorMsg": " ",
    "RequestId": "73779803-e28b-481a-a350-eab5bada499b"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

DisableEncryptionProtection

Last updated : 2023-09-18 16:00:26

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to disable encryption protection.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DisableEncryptionProtection.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Disabling encryption protection

This example shows you how to disable encryption protection.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DisableEncryptionProtection
<Common request parameters>

{
  "ClusterId": "cls-mu2or8b8"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "73779803-e28b-481a-a350-eab5bada499b"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

EnableEncryptionProtection

Last updated : 2023-09-18 16:00:25

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to enable encryption protection.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: EnableEncryptionProtection.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
KMSConfiguration	Yes	KMSConfiguration	KMS encryption configuration

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling encryption protection

This example shows you how to enable encryption protection.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: EnableEncryptionProtection
<Common request parameters>

{
  "ClusterId": "cls-mu2or8b8",
  "KMSConfiguration": {
    "KeyId": "38098f4c-f5ef-11ed-8c28-525400b4ad52",
    "KmsRegion": "ap-guangzhou"
  }
}
```

Output Example

```
{
  "Response": {
    "RequestId": "73779803-e28b-481a-a350-eab5bada499b"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceUnavailable	Resource is unavailable
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

UpdateClusterVersion

Last updated : 2024-07-24 10:36:31

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to upgrade the master component of the cluster to the specified version.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateClusterVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
DstVersion	Yes	String	The version that needs to upgrade to
ExtraArgs	No	ClusterExtraArgs	Cluster custom parameter
MaxNotReadyPercent	No	Float	The maximum tolerable number of unavailable pods
SkipPreCheck	No	Boolean	Whether to skip the precheck

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Upgrading a cluster to the specified version

This example shows you how to upgrade a cluster to the specified version.

Input Example

```
https://tke.tencentcloudapi.com/?Action=UpdateClusterVersion
&ClusterId=cls-xxxxxxx
&DstVersion=1.18.4
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "2ac430cd-f7de-482e-b98e-f78a48e785e8"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ClusterUpgradeNodeVersion	The version of the cluster node is too old.
FailedOperation.ComponentClientHttp	Internal HTTP client error.
InternalError	Internal error.
InternalError.ClusterUpgradeNodeVersion	The version of the cluster node is outdated.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

AcquireClusterAdminRole

Last updated : 2023-09-18 16:00:31

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API can be called to acquire the ClusterRole tke:admin. By setting a CAM policy, you can grant permission of this API to a sub-account that has higher permission in CAM. In this way, this sub-account can call this API directly to acquire the admin role of a Kubernetes cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: AcquireClusterAdminRole.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Assigning the cluster admin role

This example shows you how to assign the cluster admin role to a sub-account to access resources in the Kubernetes cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=AcquireClusterAdminRole
&ClusterId=cls-7ph3twqe
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "24564577-a642-4164-8752-4668d4ca8886"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.KubernetesCreateOperationError	An error occurs while creating the cluster client.
FailedOperation.KubernetesGetOperationError	
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.KubernetesClientBuildError	Failed to create the kubernetes client.
InternalError.KubernetesCreateOperationError	Failed to create the kubernetes resource.
InternalError.KubernetesGetOperationError	Failed to obtain the kubernetes resources
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.WhitelistUnexpectedError	Unknown allowlist error
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.
UnsupportedOperation.NotInWhitelist	The user is not in the allowlist.

CreateClusterEndpoint

Last updated : 2023-09-18 16:00:30

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a cluster access endpoint.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusterEn
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
SubnetId	No	String	The ID of the subnet where the cluster's port is located (only nee and must be within the subnet of the cluster's VPC).
IsExtranet	No	Boolean	Whether public network access is enabled or not (True = public value as FALSE).
Domain	No	String	The domain name
SecurityGroup	No	String	The security group in use, which must be passed in when public
ExtensiveParameters	No	String	LB parameters in a JSON string. It is only required for public ne

```
{"InternetChargeType":"TRAFFIC_POSTPAID_BY_HOUR","In
```

Description of parameters:

- `InternetAccessible.InternetChargeType` : `TRAFFIC_POSTPAID_BY_HOUR` (Pay-as-you-go basis); `BANDWIDTH_POSTPAID_BY_HOUR` (Pay-as-you-go basis); `BANDWIDTH_PACKAGE` (Bill-by-bandwidth basis).
- `InternetAccessible.BANDWIDTH_PACKAGE` (Bill-by-bandwidth basis): Outbound bandwidth cap in Mbit/s.
- `InternetMaxBandwidthOut` : Outbound bandwidth cap in Mbit/s.
- `VipIsp` : `CMCC` (China Mobile), `CTCC` (China Telecom), `CUCC` (China Unicom) by default. To query ISPs available in a region, call `DescribeAvailableIsp`. The mode must be `BANDWIDTH_PACKAGE`.
- `BandwidthPackageId` : Bandwidth package ID. If this parameter is specified, `InternetChargeType` must be `BANDWIDTH_PACKAGE`.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a cluster access endpoint

This example shows you how to create a cluster access endpoint.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateClusterEndpoint
<Common request parameters>

{
  "SubnetId": "subnet-xxxxxxx",
  "ClusterId": "cls-xxxxxxxx",
  "IsExtranet": true,
  "SecurityGroup": "sg-xxxxxx",
  "ExtensiveParameters": "{\"InternetAccessible\":{\"InternetChargeType\":\"TRAFFIC_POSTPAID_BY_HOUR\",\"InternetMaxBandwidthOut\":200}}"
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.KubeClientConnection	Failed to connect to the customer Kubernetes cluster.
InternalError	Internal error.

InternalError.CamNoAuth	You do not have permissions.
InternalError.ClusterState	Cluster status error.
InternalError.Db	DB error.
InternalError.EmptyClusterNotSupport	Empty clusters are not supported.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

CreateClusterEndpointVip

Last updated : 2023-09-18 16:00:30

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a public network access port for a managed cluster. Note: This API will be disused soon.

Please call `CreateClusterEndpoint` instead.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusterEndpointVip.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
SecurityPolicies.N	No	Array of String	Security policy opens single IP or CIDR to the Internet (for example: '192.168.1.0/24', with 'reject all' as the default).

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestFlowId	Integer	Request job's FlowId
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting up public network access for a managed cluster

This example shows you how to set up public network access for a managed cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateClusterEndpointVip
<Common request parameters>

{
  "ClusterId": "cls-xxxxxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestFlowId": "100000",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.CamNoAuth	You do not have permissions.
InternalServerError.ClusterNotFound	Cluster not found.
InternalServerError.ClusterState	Cluster status error.
InternalServerError.CvmCommon	Error in node creation.
InternalServerError.CvmNotFound	CVM does not exist.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.

ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DeleteCluster

Last updated : 2023-09-18 16:00:30

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a cluster. (Cloud API v3).

A maximum of 50 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteCluster.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
InstanceDeleteMode	Yes	String	Policy used to delete an instance in the cluster: terminate (terminates the instance. Only available for instances on pay-as-you-go CVMs); retain (only removes it from the cluster. The instance will be retained.)
ResourceDeleteOptions.N	No	Array of	Specifies the policy to deal with

		ResourceDeleteOption	resources in the cluster when the cluster is deleted. It only supports CBS now. The default policy is to retain CBS disks.
--	--	--------------------------------------	--

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a cluster

This example shows you how to delete a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteCluster
&ClusterId=cls-xxxxxxx
&InstanceDeleteMode=terminate
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CamNoAuth	Not authorized to access this API
FailedOperation.ClusterForbiddenToDelete	The cluster cannot be deleted.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.ComponentClientCommon	Internal client error.
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.ComponentClientNetHttp	Failed to request (HTTP request) other Tencent Cloud services.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.

InternalError.ComponentClnetHttp	Error while requesting (HTTP) other Tencent Cloud services
InternalError.Param	Parameter error.
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.UnexceptedInternal	Internal error.
InvalidParameter	Parameter error.
OperationDenied.ClusterInDeletionProtection	The cluster is under deletion protection and cannot be deleted.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable

DeleteClusterEndpoint

Last updated : 2023-09-18 16:00:29

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a cluster access endpoint.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterEndpoint.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
IsExtranet	No	Boolean	Whether public network access is enabled or not (True = public network access, FALSE = private network access, with the default value as FALSE).

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a cluster access endpoint

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteClusterEndpoint
<Common request parameters>

{
  "ClusterId": "cls-xxxxxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.CvmCommon	Error in node creation.
InternalError.CvmNotFound	CVM does not exist.
InternalError.Db	DB error.
InternalError.KubeCommon	Kubernetes API error.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.

ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DeleteClusterEndpointVip

Last updated : 2023-09-18 16:00:29

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Delete the external network access port of the managed cluster (the old way, only the external network port of the managed cluster is supported)

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterEndpointVip.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Disabling the public network access for a managed cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteClusterEndpointVip
&ClusterId=cls-xxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.CamNoAuth	You do not have permissions.
InternalServerError.Db	DB error.
InternalServerError.DbAffectedRows	Database error.
InternalServerError.DfwGetUSGCount	Failed to obtain total number of current security groups.
InternalServerError.DfwGetUSGQuota	Failed to obtain security group quota.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeAvailableClusterVersion

Last updated : 2023-09-18 16:00:29

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain all versions that the cluster can upgrade to.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAvailableClusterVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	No	String	Cluster ID
ClusterIds.N	No	Array of String	List of cluster IDs

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
Versions	Array of String	Upgradable cluster version Note: this field may return <code>null</code> , indicating that no valid value is obtained.
Clusters	Array of ClusterVersion	Cluster information Note: this field may return <code>null</code> , indicating that no valid value is obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the versions that are available for cluster upgrade

This example shows you how to obtain the versions that are available for cluster upgrade.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeAvailableClusterVersion
&ClusterId=cls-7ph3twqe
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Clusters": [
      {
        "ClusterId": "cls-7ph3twqe",
        "Versions": [
          "1.22.5"
        ]
      }
    ],
    "RequestId": "d367ff5c-3871-4f1b-b8f1-4d51ea689e29",
    "Versions": [
      "1.22.5"
    ]
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.Param	Parameter error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceUnavailable.ClusterInAbnormalStat	Abnormal cluster status.

DescribeClusterAuthenticationOptions

Last updated : 2023-09-18 16:00:29

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query cluster authentication configuration.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterAuthenticationOptions.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
ServiceAccounts	ServiceAccountAuthenticationOptions	ServiceAccount authentication configuration Note: this field may return <code>null</code> ,

		indicating that no valid values can be obtained.
LatestOperationState	String	Result of the last modification. Values: <code>Updating</code> , <code>Success</code> , <code>Failed</code> or <code>TimeOut</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
OIDCConfig	OIDCConfigAuthenticationOptions	OIDC authentication configurations Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying cluster authentication configuration

This example shows you how to query cluster authentication configuration.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterAuthenticationOptions
<Common request parameters>

{
  "ClusterId": "cls-7ph3twqe"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "24564577-a642-4164-8752-4668d4ca8886",
    "ServiceAccounts": {
      "JWKSURI": "https://cls-7ph3twqe.ccs.tencent-cloud.com/openid/v1/jwks",
```

```
"Issuer": "https://cls-7ph3twqe.ccs.tencent-cloud.com"
},
"OIDCConfig": {
  "AutoCreateOIDCConfig": true,
  "AutoInstallPodIdentityWebhookAddon": true,
  "AutoCreateClientId": [
    "84ec9912f0be4066be862afaff9d3c48"
  ]
},
"LatestOperationState": "Updating"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.

InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
OperationDenied	Operation denied.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

DescribeClusterCommonNames

Last updated : 2023-09-18 16:00:29

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the CommonName from the kube-apiserver client certificate that corresponding to the sub-account in RBAC authorization mode.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterCommonNames.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
SubaccountUins.N	No	Array of String	Sub-account. Up to 50 sub-accounts can be passed in at a time.
RoleIds.N	No	Array of String	Role ID. Up to 50 role IDs can be passed in at a time.

3. Output Parameters

Parameter Name	Type	Description
CommonNames	Array of CommonName	The CommonName in the certificate of the client corresponding to the sub-account UIN
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the CommonName for the sub-account to access the cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterCommonNames
&ClusterId=cls-65r1c5nu
&SubaccountUins.0=123456
&SubaccountUins.1=123457
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "CommonNames": [
      {
        "SubaccountUin": "123456",
        "CN": "123456-1588769189"
      }
    ],
    "RequestId": "33483fde-efec-4d3c-8ff6-340d9dbc2d01"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InternalServerError.WhitelistUnexpectedError	Unknown allowlist error
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.
UnsupportedOperation.NotInWhitelist	The user is not in the allowlist.

DescribeClusterEndpointStatus

Last updated : 2023-09-18 16:00:28

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Query cluster access port status (intranet / extranet access is enabled for independent clusters, and intranet access is supported for managed clusters)

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterEndpointStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
IsExtranet	No	Boolean	Whether public network access is enabled or not (True = public network access, FALSE = private network access, with the default value as FALSE).

3. Output Parameters

Parameter Name	Type	Description
Status	String	The status of cluster access port. It can be <code>Created</code> (enabled); <code>Creating</code> (enabling) and <code>NotFound</code> (not enabled) Note: this field may return <code>null</code> , indicating that no valid value is obtained.
ErrorMsg	String	Details of the error occurred while opening the access port Note: this field may return <code>null</code> , indicating that no valid value is obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status of the cluster access port

This example shows you how to query the status of the cluster access port.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterEndpointStatus
&ClusterId=cls-7ph3twqe
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397",
    "Status": "Created",
    "ErrorMsg": "error"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.KubeClientConnection	Failed to connect to the customer Kubernetes cluster.
FailedOperation.KubernetesInternal	Unknown Kubernetes error.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.KubeClientConnection	Failed to connect to the user's Kubernetes cluster.
InternalError.KubeCommon	Kubernetes API error.
InternalError.KubernetesInternal	Unknown Kubernetes error
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.VpcCommon	VPC error

InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeClusterEndpointVipStatus

Last updated : 2023-09-18 16:00:28

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Query cluster open port process status (only supports external ports of the managed cluster)

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterEndpointVipStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
Status	String	Port operation status (Creating = in the process of creation; CreateFailed = creation has

		failed; Created = creation completed; Deleting = in the process of deletion; DeletedFailed = deletion has failed; Deleted = deletion completed; NotFound = operation not found)
ErrorMsg	String	Reason for operation failure
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status of the cluster port enabling process

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterEndpointVipStatus
&ClusterId=cls-xxxxxxx,
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Status": "Creating",
    "ErrorMsg": "",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.CamNoAuth	You do not have permissions.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.DfwGetUSGCount	Failed to obtain total number of current security groups.
InternalError.DfwGetUSGQuota	Failed to obtain security group quota.
InternalError.ImageIdNotFound	Image not found.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.AsCommonError	Auto scaling group creation parameter error.
InvalidParameter.Param	Invalid parameter.

OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnsupportedOperation	Unsupported operation.

DescribeClusterEndpoints

Last updated : 2023-09-18 16:00:28

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query cluster access addresses, including private network address, public network address, public network domain name, and security policy for public network access.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterEndpoints.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
CertificationAuthority	String	CA certificate of cluster APIServer

ClusterExternalEndpoint	String	Public network access address of cluster APIServer
ClusterIntranetEndpoint	String	Private network access address of cluster APIServer
ClusterDomain	String	Domain name of cluster APIServer Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ClusterExternalACL	Array of String	Public network access ACL of cluster APIServer Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ClusterExternalDomain	String	Public network domain name Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ClusterIntranetDomain	String	Private network domain name Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SecurityGroup	String	Public network security group Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying cluster access addresses

This example shows you how to query cluster access addresses.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterEndpoints
<Common request parameters>

{
  "ClusterId": "cls-65r1c5nu"
}
```


Output Example

```
{
  "Response": {
    "CertificationAuthority": "",
    "ClusterIntranetDomain": "cls.domain",
    "ClusterExternalDomain": "cls.domain",
    "SecurityGroup": "sg-2quou3re",
    "ClusterExternalEndpoint": "12.34.56.78",
    "ClusterIntranetEndpoint": "10.0.0.1",
    "ClusterDomain": "cls-65r1c5nu.ccs.tencent-cloud.com",
    "ClusterExternalACL": [
      "10.0.0.0/24"
    ],
    "RequestId": "33483fde-efec-4d3c-8ff6-340d9dbc2d01"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.KubeCommon	Kubernetes API error.
FailedOperation.KubernetesClientBuildError	Failed to create the Kubernetes client.
InternalError	Internal error.
InternalError.ComponentClientHttp	Internal HTTP client error
InternalError.KubeClientConnection	Failed to connect to the user's Kubernetes cluster.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceNotFound.KubeResourceNotFound	The specified resource is not found in the Kubernetes cluster.
ResourceUnavailable.ClusterInAbnormalStat	Abnormal cluster status.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.

DescribeClusterKubeconfig

Last updated : 2023-09-18 16:00:28

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the cluster kubeconfig file. Different sub-accounts have their own kubeconfig files. The kubeconfig file contains the kube-apiserver client certificate of the corresponding sub-account. By default, the client certificate is created when this API is called for the first time, and the certificate is valid for 20 years with no permissions granted. For the cluster owner or primary account, the cluster-admin permission is granted by default.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterKubeconfig.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
IsExtranet	No	Boolean	Defaults to <code>false</code> , which means to obtain the kubeconfig of private network

3. Output Parameters

Parameter Name	Type	Description
Kubeconfig	String	Sub-account kubeconfig file, used to access the cluster kube-apiserver directly
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the cluster kubeconfig file

This example shows you how to obtain the cluster kubeconfig file. Different sub-accounts have their own kubeconfig files. The kubeconfig file contains the kube-apiserver client certificate of the corresponding sub-account. By default, the client certificate is created when this API is called for the first time, and the certificate is valid for 20 years with no permissions granted. For the cluster owner or primary account, the cluster-admin permission is granted by default.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterKubeconfig
<Common request parameters>

{
  "ClusterId": "cls-65r1c5nu"
}
```

Output Example

```
{
  "Response": {
    "Kubeconfig": "[REDACTED]",
    "RequestId": "33483fde-efec-4d3c-8ff6-340d9dbc2d01"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.KubeCommon	Kubernetes API error.
FailedOperation.KubernetesClientBuildError	Failed to create the Kubernetes client.
FailedOperation.UnexpectedError	Unexpected error.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ComponentClientHttp	Internal HTTP client error
InternalError.Db	DB error.
InternalError.KubeClientConnection	Failed to connect to the user's Kubernetes cluster.

InternalError.KubernetesClientBuildError	Failed to create the kubernetes client.
InternalError.KubernetesCreateOperationError	Failed to create the kubernetes resource.
InternalError.KubernetesDeleteOperationError	Failed to delete the kubernetes resource.
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.WhitelistUnexpectedError	Unknown allowlist error
InvalidParameter	Parameter error.
InvalidParameter.ClusterNotFound	The cluster ID does not exist.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceNotFound.KubernetesResourceNotFound	The kubernetes resource does not exist.
ResourceUnavailable.ClusterInAbnormalStat	Abnormal cluster status.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.

DescribeClusterLevelAttribute

Last updated : 2023-09-18 16:00:27

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the cluster model.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterLevelAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterID	No	String	Cluster ID (available for cluster model adjustment)

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number

Items	Array of ClusterLevelAttribute	Cluster model
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the model of managed clusters

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterLevelAttribute
<Common request parameters>

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "xx",
    "Items": [
      {
        "Name": "L5",
        "Alias": "500 nodes",
        "NodeCount": 500,
        "PodCount": 1000,
        "ConfigMapCount": 200,
        "CRDCount": 1,
        "OtherCount": 1,
        "Enable": true
      }
    ]
  }
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable

DescribeClusterLevelChangeRecords

Last updated : 2023-09-18 16:00:27

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the cluster model adjustment history.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterLevelChangeRecords.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterID	Yes	String	Cluster ID
StartAt	No	String	Start time
EndAt	No	String	End time
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Maximum number of output entries. Default value: 20

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number
Items	Array of ClusterLevelChangeRecord	Cluster model
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the cluster model adjustment history

This example shows you how to query the cluster model adjustment history.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterLevelChangeRecords
<Common request parameters>

{
  "Limit": 1,
  "ClusterID": "cls-7t1eo183",
  "EndAt": "2022-07-11 17:45:02",
  "StartAt": "2022-07-11 16:45:02",
  "Offset": 1
}
```

Output Example

```
{
  "Response": {
    "Items": [
      {
        "ID": "548",
        "ClusterID": "cls-7t1eo183",
```

```
"Status": "success",
"Message": "",
"OldLevel": "L5",
"NewLevel": "L20",
"TriggerType": "manual",
"CreatedAt": "2022-07-11 17:40:22",
"StartedAt": "2022-07-11 17:40:22",
"EndedAt": "2022-07-11 17:45:02"
},
"RequestId": "24564577-a642-4164-8752-4668d4ca8886",
"TotalCount": 1
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

DescribeClusterSecurity

Last updated : 2023-09-18 16:00:27

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the key information of a cluster.

A maximum of 100 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterSecurity.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID. Enter the ClusterId field returned by the DescribeClusters API

3. Output Parameters

Parameter Name	Type	Description
UserName	String	Cluster's account name

Password	String	Cluster's password
CertificationAuthority	String	Cluster's access CA certificate
ClusterExternalEndpoint	String	Cluster's access address
Domain	String	Domain name accessed by the cluster
PgwEndpoint	String	Cluster's endpoint address
SecurityPolicy	Array of String	Cluster's access policy group Note: This field may return null, indicating that no valid value was found.
Kubeconfig	String	Cluster Kubeconfig file Note: This field may return null, indicating that no valid value was found.
JnsGwEndpoint	String	Access address of the cluster JnsGw Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying secret information of a cluster

This example shows you how to query the secret information of a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterSecurity
&ClusterId=cls-7ph3twqe
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "UserName": "admin",
    "Domain": "cls-7ph3twqe.ccs.tencent-cloud.com",
    "CertificationAuthority": "",
    "Kubeconfig": "",
  }
}
```

```
"PgwEndpoint": "0.0.0.0",
"JnsGwEndpoint": "127.0.0.1:8080",
"RequestId": "5f792091-66a7-40fc-8043-4d8b9537fa44",
"SecurityPolicy": [
  "192.168.0.1"
],
"ClusterExternalEndpoint": "https://127.0.0.1",
"Password": ""
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.ComponentClientUnpack	Internal HTTP decapsulation failed.

FailedOperation.Db	Database error.
FailedOperation.DbRecordNotFound	Record not found.
FailedOperation.KubeCommon	Kubernetes API error.
FailedOperation.LbCommon	An unknown error occurs while calling the underlying CLB.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.ComponentClientHttp	Internal HTTP client error
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.KubeCommon	Kubernetes API error.
InternalError.LbCommon	An error occurs while calling the underlying CLB
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.CidrInvalid	Parameter error. The CIDR block does not meet the specification.
InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceNotFound.KubeResourceNotFound	The specified resource is not found in the Kubernetes cluster.
ResourceUnavailable	Resource is unavailable
ResourceUnavailable.ClusterInAbnormalStat	Abnormal cluster status.

ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeClusterStatus

Last updated : 2023-09-18 16:00:27

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the information of clusters under the current account.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterIds.N	No	Array of String	Cluster ID list. All clusters are pulled if it is left empty.

3. Output Parameters

Parameter Name	Type	Description

ClusterStatusSet	Array of ClusterStatus	Cluster status list
TotalCount	Integer	Number of clusters
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the current cluster status

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterStatus
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ClusterStatusSet": [
      {
        "ClusterClosingNodeNum": 0,
        "ClusterAuditEnabled": true,
        "ClusterDeletionProtection": true,
        "ClusterId": "xx",
        "ClusterBMonitor": true,
        "ClusterInitNodeNum": 0,
        "ClusterState": "xx",
        "ClusterClosedNodeNum": 0,
        "ClusterInstanceState": "xx",
        "ClusterRunningNodeNum": 0,
        "ClusterFailedNodeNum": 0
      }
    ],
    "RequestId": "a1be36f0-1aa4-4af2-a289-da021bcef89f"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.CamNoAuth	Not authorized to access this API
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.ComponentClientUnpack	Internal HTTP decapsulation failed.
FailedOperation.ComponentClnetHttp	Failed to request (HTTP request) other Tencent Cloud services.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ComponentClnetHttp	Error while requesting (HTTP) other Tencent Cloud services

InternalError.CvmCommon	Error in node creation.
InternalError.CvmNotFound	CVM does not exist.
InternalError.Db	DB error.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InvalidParameter	Parameter error.
MissingParameter	Missing parameter.
UnknownParameter	Unknown parameter.

DescribeClusters

Last updated : 2023-09-18 16:00:27

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query clusters list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusters.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterIds.N	No	Array of String	Cluster ID list (When it is empty, all clusters under the account will be obtained)
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Maximum number of output entries. Default value: 20
Filters.N	No	Array of Filter	· ClusterName Filters by the cluster name Type: String

			Required: No · ClusterType Filters by the cluster type Type: String Required: No · ClusterStatus Filters by the cluster status Type: String Required: No · Tags Filters by key-value pairs of tags Type: String Required: No · vpc-id Filters by the VPC ID Type: String Required: No · tag-key Filters by the tag key Type: String Required: No · tag-value Filters by the tag value Type: String Required: No · tag:tag-key Filters by key-value pairs of tags Type: String Required: No
ClusterType	No	String	Cluster type, such as <code>MANAGED_CLUSTER</code>

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

TotalCount	Integer	Total number of clusters
Clusters	Array of Cluster	Cluster information list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of clusters

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusters
<Common request parameters>

{}
```

Output Example

```
{
  "Response": {
    "Clusters": [
      {
        "AutoUpgradeClusterLevel": true,
        "ClusterDescription": "",
        "ClusterEtcdNodeNum": 0,
        "ClusterId": "cls-ayzfpv5c",
        "ClusterLevel": "L5",
        "ClusterMaterNodeNum": 1,
        "ClusterName": "yctest",
        "ClusterNetworkSettings": {
          "CiliumMode": "",
          "ClusterCIDR": "10.12.0.0/14",
          "Cni": true,
          "IgnoreClusterCIDRConflict": false,
          "IgnoreServiceCIDRConflict": false,
          "Ipv6ServiceCIDR": "",
          "Ipvs": false,
          "IsDualStack": false,

```



```
"KubeProxyMode": "",
"MaxClusterServiceNum": 1024,
"MaxNodePodNum": 64,
"ServiceCIDR": "10.15.252.0/22",
"Subnets": null,
"VpcId": "vpc-7modfjc3"
},
"ClusterNodeNum": 2,
"ClusterOs": "tlinux3.1x86_64",
"ClusterStatus": "Running",
"ClusterType": "MANAGED_CLUSTER",
"ClusterVersion": "1.24.4",
"ContainerRuntime": "containerd",
"CreatedTime": "2022-12-27T07:46:13Z",
"DeletionProtection": true,
"EnableExternalNode": false,
"ImageId": "",
"OsCustomizeType": "GENERAL",
"ProjectId": 0,
"Property": "{\"NodeNameType\":\"lan-ip\",\"NetworkType\":\"GR\"}",
"QGPUShareEnable": false,
"RuntimeVersion": "1.4.3",
"TagSpecification": null
}
],
"RequestId": "583e6c4b-ff24-42f8-87f1-37e4c00d81b7",
"TotalCount": 1
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.UnexpectedError	Unexpected error.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.Param	Parameter error.
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.QuotaMaxCIsLimit	Quota limit exceeded.
InternalError.QuotaMaxNodLimit	Quota limit exceeded.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
ResourceNotFound	The resource does not exist.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.
UnsupportedOperation	Unsupported operation.

DescribeEdgeAvailableExtraArgs

Last updated : 2023-09-18 16:00:27

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the custom parameters available for an edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEdgeAvailableExtraArgs.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterVersion	No	String	Cluster version

3. Output Parameters

Parameter Name	Type	Description
ClusterVersion	String	Cluster version Note: This field may return <code>null</code> , indicating that no valid

		values can be obtained.
AvailableExtraArgs	EdgeAvailableExtraArgs	Available custom parameters Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the custom parameters available for the cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeEdgeAvailableExtraArgs
&ClusterVersion=1.12.4
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterVersion": "1.12.4",
    "AvailableExtraArgs": {
      "KubeControllerManager": [
        {
          "Name": "kube-api-burst",
          "Type": "int32",
          "Usage": "Burst to use while talking with kubernetes apiserver. (default 30)",
          "Default": "30",
        }
      ],
      "KubeScheduler": [],
      "Kubelet": [
        {}
      ]
    },
    "RequestId": "xxx-xxxx"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter.Param	Invalid parameter.

DescribeEdgeClusterExtraArgs

Last updated : 2023-09-18 16:00:26

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query custom parameters of an edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEdgeClusterExtraArgs.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description

ClusterExtraArgs	EdgeClusterExtraArgs	Custom parameters of the cluster Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying custom parameters of a cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeEdgeClusterExtraArgs
&ClusterId=cls-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterExtraArgs": {
      "KubeAPIServer": [
        "max-mutating-requests-inflight=500"
      ],
      "KubeControllerManager": [
        "kube-api-burst=500"
      ],
      "KubeScheduler": [
        "kube-api-burst=500"
      ]
    },
    "RequestId": "5a489220-1730-43ee-9a59-7d3a752ac750"
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.ClusterNotFound	Cluster not found.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
UnsupportedOperation	Unsupported operation.

DescribeResourceUsage

Last updated : 2023-09-18 16:00:26

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the cluster resource usage.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeResourceUsage.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
CRDUsage	ResourceUsage	CRD usage

PodUsage	Integer	Pod usage
RSUsage	Integer	ReplicaSet usage
ConfigMapUsage	Integer	ConfigMap usage
OtherUsage	ResourceUsage	Other resource usage
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the cluster resource usage

This example shows you how to query the cluster resource usage.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeResourceUsage
<Common request parameters>

{
  "ClusterId": "cls-9jqo5g3a"
}
```

Output Example

```
{
  "Response": {
    "CRDUsage": {
      "Name": "CRD",
      "Usage": 0,
      "Details": [
        {
          "Name": "tkeserviceconfigs",
          "Usage": 0
        }
      ]
    },
    "PodUsage": 3,
    "RSUsage": 3,
```

```
"ConfigMapUsage": 14,
"OtherUsage": {
  "Name": "Other",
  "Usage": 51,
  "Details": [
    {
      "Name": "clusterrolebindings",
      "Usage": 47
    },
    {
      "Name": "endpoints",
      "Usage": 4
    }
  ]
},
"RequestId": "c7ad171e-3604-4662-b3b8-cd10b818a407"
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.UnexpectedError	Unexpected error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.ClusterNotFound	The cluster ID does not exist.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

DisableClusterDeletionProtection

Last updated : 2023-09-18 16:00:26

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to disable cluster deletion protection.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DisableClusterDeletionProtection.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Disabling cluster deletion protection

Input Example

```
https://tke.tencentcloudapi.com/?Action=DisableClusterDeletionProtection
&ClusterId=cls-xxxxxxx
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.UnexceptedInternal	Internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

EnableClusterDeletionProtection

Last updated : 2023-09-18 16:00:25

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to enable cluster deletion protection.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: EnableClusterDeletionProtection.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Enabling cluster deletion protection

This example shows you how to avoid accidental cluster deletion. After enabling cluster deletion protection, you cannot delete a cluster via the console or API. If you want to delete a cluster, you need to disable cluster deletion protection first.

Input Example

```
https://tke.tencentcloudapi.com/?Action=EnableClusterDeletionProtection
&ClusterId=cls-xxxxxxx
&<Common Request Parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.UnexceptedInternal	Internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

GetClusterLevelPrice

Last updated : 2023-09-18 16:00:25

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Obtaining the price of specified cluster model

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetClusterLevelPrice.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterLevel	Yes	String	The cluster model. It's used for price query.

3. Output Parameters

Parameter Name	Type	Description
Cost	Integer	Discount price (unit: US cent)

TotalCost	Integer	Original price (unit: US cent)
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the price of specified cluster model

Input Example

```
https://tke.tencentcloudapi.com/?Action=GetClusterLevelPrice
&ClusterLevel=3600
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397",
    "Cost": 6,
    "TotalCost": 6
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.TradeCommon	Query failed.
InternalError.TradeCommon	Query failed

GetUpgradeInstanceProgress

Last updated : 2023-09-18 16:00:25

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the current progress of the node upgrade.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: GetUpgradeInstanceProgress.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
Limit	No	Integer	Maximum number of nodes to be queried
Offset	No	Integer	The starting node for the query

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Total	Integer	Total nodes to upgrade
Done	Integer	Total upgraded nodes
LifeState	String	The lifecycle of the upgrade task process: running paused: stopped pausing: stopping done: completed timeout: timed out aborted: canceled
Instances	Array of InstanceUpgradeProgressItem	Details of upgrade progress of each node
ClusterStatus	InstanceUpgradeClusterStatus	Current cluster status
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the upgrade status

This example shows you how to query the upgrade status.

Input Example

```
https://tke.tencentcloudapi.com/?Action=GetUpgradeInstanceProgress
&ClusterId=cls-xxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterStatus": {
      "PodTotal": 0,
      "NotReadyPod": 0
    },
    "Done": 0,
    "Instances": [
```

```
{
  "CheckResult": {
    "CheckPass": false,
    "Items": [
      {
        "After": 0,
        "Before": 2,
        "Namespace": "default",
        "Pods": [
          "kubernetes-proxy-67fd23cf4d-2tcxw",
          "kubernetes-proxy-67fd23cf4d-qd99j"
        ],
        "WorkLoadKind": "ReplicaSet",
        "WorkLoadName": "kubernetes-proxy-67fd23cf4d"
      }
    ],
    "SinglePods": []
  },
  "Detail": [
    {
      "EndAt": null,
      "FailedMsg": "precheck failed",
      "LifeState": "failed",
      "StartAt": "2023-02-08T08:29:51Z",
      "Step": "preCheck"
    },
    {
      "EndAt": null,
      "FailedMsg": "",
      "LifeState": "pending",
      "StartAt": null,
      "Step": "drain"
    },
    {
      "EndAt": null,
      "FailedMsg": "",
      "LifeState": "pending",
      "StartAt": null,
      "Step": "remove"
    },
    {
      "EndAt": null,
      "FailedMsg": "",
      "LifeState": "pending",
      "StartAt": null,
      "Step": "reset"
    }
  ]
}
```



```
{
  "EndAt": null,
  "FailedMsg": "",
  "LifeState": "pending",
  "StartAt": null,
  "Step": "postCheck"
},
{
  "EndAt": null,
  "InstanceID": "ins-wggphft5",
  "LifeState": "paused",
  "StartAt": "2023-02-08T16:29:46+08:00"
},
{
  "LifeState": "aborted",
  "RequestId": "b224fa4b-fedf-4061-baa9-d547ew858df",
  "Total": 1
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.TaskNotFound	No task found
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.

ModifyClusterAttribute

Last updated : 2023-09-18 16:00:25

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to modify cluster attributes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
ProjectId	No	Integer	Project of the Cluster
ClusterName	No	String	Cluster name
ClusterDesc	No	String	Cluster description
ClusterLevel	No	String	Cluster specification

AutoUpgradeClusterLevel	No	AutoUpgradeClusterLevel	Auto-upgrades cluster specification
QGPUShareEnable	No	Boolean	Whether to enable qGPU Sharing

3. Output Parameters

Parameter Name	Type	Description
ProjectId	Integer	Project of the Cluster Note: this field may return null, indicating that no valid values can be obtained.
ClusterName	String	Cluster name Note: this field may return null, indicating that no valid values can be obtained.
ClusterDesc	String	Cluster description Note: this field may return null, indicating that no valid values can be obtained.
ClusterLevel	String	Cluster specification Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
AutoUpgradeClusterLevel	AutoUpgradeClusterLevel	Auto-upgrades cluster specification Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
QGPUShareEnable	Boolean	Whether to enable qGPU Sharing Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying cluster attributes

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyClusterAttribute
<Common request parameters>

{
  "AutoUpgradeClusterLevel": {
    "IsAutoUpgrade": true
  },
  "ClusterName": "tke-test",
  "ProjectId": 0,
  "ClusterDesc": "test",
  "ClusterId": "cls-7ph3twqe",
  "ClusterLevel": "L5"
}
```

Output Example

```
{
  "Response": {
    "AutoUpgradeClusterLevel": {
      "IsAutoUpgrade": true
    },
    "ClusterName": "tke-test",
    "ProjectId": 0,
    "ClusterDesc": "test",
    "QGPUShareEnable": true,
    "RequestId": "24564577-a642-4164-8752-4668d4ca8886",
    "ClusterLevel": "L5"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.TradeCommon	Query failed.
FailedOperation.UnexpectedError	Unexpected error.
InternalServerError	Internal error.
InternalServerError.CamNoAuth	You do not have permissions.
InternalServerError.Db	DB error.
InternalServerError.DbAffectedRows	Database error.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.Param	Parameter error.
InternalServerError.TradeCommon	Query failed
InternalServerError.TradeInsufficientBalance	Insufficient account balance.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.

ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

ModifyClusterAuthenticationOptions

Last updated : 2023-09-18 16:00:25

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to modify cluster authentication configuration.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterAuthenticationOptions.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
ServiceAccounts	No	ServiceAccountAuthenticationOptions	ServiceAccount authentication configuration
OIDCConfig	No	OIDCConfigAuthenticationOptions	OIDC authentication configurations

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying cluster authentication configuration

This example shows you how to modify cluster authentication configuration.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyClusterAuthenticationOptions
<Common request parameters>

{
  "ServiceAccounts": {
    "JWKSURI": "https://cls-7ph3twqe.ccs.tencent-cloud.com/openid/v1/jwks",
    "Issuer": "https://cls-7ph3twqe.ccs.tencent-cloud.com",
    "AutoCreateDiscoveryAnonymousAuth": true
  },
  "ClusterId": "cls-7ph3twqe"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "f12a6e20-f950-4af9-8f8b-b6329a4961c2"
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.KubeCommon	Kubernetes API error.
InternalError	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
OperationDenied	Operation denied.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

ModifyClusterEndpointSP

Last updated : 2023-09-18 16:00:24

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Modify the security policy of the external port of the managed cluster (the old way, only the external port of the managed cluster is supported)

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterEndpointSP.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
SecurityPolicies.N	No	Array of String	Security policy opens single IP or CIDR block to the Internet (for example: '192.168.1.0/24', with 'reject all' as the default).
SecurityGroup	No	String	Modify public network security group

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the security policy for the public network port of a managed cluster

This example shows you how to modify the security policy for the public network port of a managed cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyClusterEndpointSP
<Common request parameters>

{
  "SecurityPolicies": [
    "192.168.1.0/24"
  ],
  "ClusterId": "cls-7ph3twqe"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.KubernetesGetOperationError	
FailedOperation.LbCommon	An unknown error occurs while calling the underlying CLB.
FailedOperation.VPCUnexpectedError	Unknown VPC error.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ClusterNotFound	Cluster not found.
InternalError.Db	DB error.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.VPCUnexpectedError	Unknown VPC error
InvalidParameter	Parameter error.

InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

UpgradeClusterInstances

Last updated : 2023-09-18 16:00:24

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to upgrade work nodes in a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpgradeClusterInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
Operation	Yes	String	create: starting an upgrade task pause: pausing the task resume: continuing the task abort: stopping the task
UpgradeType	No	String	Upgrade type. It's only required when <code>Operation</code> is set as <code>create</code> . reset: the reinstallation and upgrade of

			major version hot: the hot upgrade of minor version major: in-place upgrade of major version
InstanceIds.N	No	Array of String	List of nodes that need to upgrade
ResetParam	No	UpgradeNodeResetParam	This parameter is used when the node joins the cluster again. Refer to the API of creating one or more cluster nodes.
SkipPreCheck	No	Boolean	Whether to skip the pre-upgrade check of the node
MaxNotReadyPercent	No	Float	The maximum tolerable proportion of unavailable pods
UpgradeRunTime	No	Boolean	Whether to upgrade node runtime. Values: <code>true</code> , <code>false</code> (default).

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Upgrading cluster nodes

This example shows you how to upgrade work nodes in the cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=UpgradeClusterInstances
&ClusterId=cls-xxxxxxx
&UpgradeType=reset
&Operation=create
&InstanceIds.0=ins-xxx
&<Common request parameters>
```


Output Example

```
{
  "Response": {
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.TaskAlreadyRunning	A same task is in progress.
FailedOperation.TaskLifeStateError	This operation is not supported when the task is in the current status.
InternalServerError.ClusterNotFound	Cluster not found.
InternalServerError.Param	Parameter error.

InternalError.TaskAlreadyRunning	A same task is in progress.
InternalError.TaskLifeStateError	The task in the current state does not support this operation.
InternalError.TaskNotFound	No task found
InternalError.UnexceptedInternal	Internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

CreateCluster

Last updated : 2023-09-18 16:00:30

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateCluster.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterCIDRSettings	Yes	ClusterCIDRSettings	Container networking configuration information for the cluster
ClusterType	Yes	String	Cluster type. Managed cluster: MANAGED_CLUSTER;

			self-deployed cluster: INDEPENDENT_CLUSTER
RunInstancesForNode.N	No	Array of RunInstancesForNode	Pass-through parameter for CVM creation in the format of a JSON string. For more information, see the API for creating a CVM instance .
ClusterBasicSettings	No	ClusterBasicSettings	Basic configuration information of the cluster
ClusterAdvancedSettings	No	ClusterAdvancedSettings	Advanced configuration information of the cluster
InstanceAdvancedSettings	No	InstanceAdvancedSettings	Advanced configuration information of the node
ExistedInstancesForNode.N	No	Array of ExistedInstancesForNode	The configuration information for existing instances. All instances must be in the same VPC. Up to 100 instances are allowed in one VPC. Spot instances are not supported.
InstanceDataDiskMountSettings.N	No	Array of InstanceDataDiskMountSetting	CVM type and the corresponding data disk mounting configuration information.
ExtensionAddons.N	No	Array of ExtensionAddon	Information of the add-on to be installed

3. Output Parameters

Parameter Name	Type	Description
ClusterId	String	Cluster ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a managed cluster

This example shows you how to create a managed cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateCluster
<Common request parameters>

{
  "ClusterCIDRSettings": {
    "ServiceCIDR": "xx",
    "ClaimExpiredSeconds": 0,
    "MaxClusterServiceNum": 1,
    "MaxNodePodNum": 1,
    "EniSubnetIds": [
      "xx"
    ],
    "ClusterCIDR": "xx",
    "IgnoreServiceCIDRConflict": true,
    "IgnoreClusterCIDRConflict": true
  },
  "ClusterAdvancedSettings": {
    "AuditEnabled": true,
    "DeletionProtection": true,
    "RuntimeVersion": "xx",
    "IsDualStack": true,
    "IsNonStaticIpMode": true,
    "KubeProxyMode": "xx",
    "AuditLogTopicId": "xx",
    "ExtraArgs": {
      "KubeAPIServer": [
        "xx"
      ],
      "KubeScheduler": [
        "xx"
      ],
      "KubeControllerManager": [
        "xx"
      ],
      "Etcd": [
```

```
"xx"
],
{
  "AuditLogsetId": "xx",
  "EnableCustomizedPodCIDR": true,
  "CiliumMode": "xx",
  "AsEnabled": true,
  "ContainerRuntime": "xx",
  "VpcCniType": "xx",
  "NetworkType": "xx",
  "NodeNameType": "xx",
  "IPVS": true,
  "BasePodNumber": 0
},
{
  "ClusterBasicSettings": {
    "AutoUpgradeClusterLevel": {
      "IsAutoUpgrade": true
    },
    "VpcId": "xx",
    "ClusterVersion": "xx",
    "TagSpecification": [
      {
        "ResourceType": "xx",
        "Tags": [
          {
            "Value": "xx",
            "Key": "xx"
          }
        ]
      }
    ],
    "ClusterName": "xx",
    "ProjectId": 0,
    "ClusterDescription": "xx",
    "NeedWorkSecurityGroup": true,
    "SubnetId": "xx",
    "OsCustomizeType": "xx",
    "ClusterLevel": "xx",
    "ClusterOs": "xx"
  },
  "RunInstancesForNode": [
    {
      "InstanceAdvancedSettingsOverrides": [
        {
          "PreStartUserScript": "xx",
          "DockerGraphPath": "xx",
          "Labels": [
```

```
{
  "Name": "xx",
  "Value": "xx"
},
{
  "ExtraArgs": {
    "Kubelet": [
      "xx"
    ],
    "Taints": [
      {
        "Value": "xx",
        "Key": "xx",
        "Effect": "xx"
      }
    ],
    "Unschedulable": 0,
    "UserScript": "xx",
    "DesiredPodNumber": 0,
    "GPUArgs": {
      "MIGEnable": true,
      "CustomDriver": {
        "Address": "xx"
      },
      "Driver": {
        "Version": "xx",
        "Name": "xx"
      },
      "CUDA": {
        "Version": "xx",
        "Name": "xx"
      },
      "CUDNN": {
        "DocName": "xx",
        "Version": "xx",
        "Name": "xx",
        "DevName": "xx"
      }
    },
    "MountTarget": "xx",
    "DataDisks": [
      {
        "DiskPartition": "xx",
        "DiskType": "xx",
        "DiskSize": 0,
        "FileSystem": "xx",
```

```

"AutoFormatAndMount": true,
"MountTarget": "xx"
}
]
},
"NodeRole": "xx",
"RunInstancesPara": [
{"VirtualPrivateCloud":{"SubnetId":"subnet-xxx","VpcId":"vpc-xxx"},"Placement":{"Zone":"ap-region-1","ProjectId":1032509},"InstanceType":"S3.LARGE8","SystemDisk":{"DiskType":"CLOUD_PREMIUM"},"DataDisks":[{"DiskType":"CLOUD_PREMIUM","DiskSize":50}],"InstanceCount":1,"InternetAccessible":{"PublicIpAssigned":true,"InternetMaxBandwidthOut":1},"LoginSettings":{"Password":"YourPassword"},"UserData":"IyEvYmluL3NoCgplyY2hvIGFhYQo="}
]
},
],
"ExtensionAddons": [
{
"AddonName": "xx",
"AddonParam": "xx"
}
],
"ClusterType": "xx",
"InstanceAdvancedSettings": {
"PreStartUserScript": "xx",
"DockerGraphPath": "xx",
"Labels": [
{
"Name": "xx",
"Value": "xx"
}
],
"ExtraArgs": {
"Kubelet": [
"xx"
]
},
"Taints": [
{
"Value": "xx",
"Key": "xx",
"Effect": "xx"
}
],
"Unschedulable": 0,
"UserScript": "xx",

```



```
"DesiredPodNumber": 0,
"GPUArgs": {
  "MIGEnable": true,
  "CustomDriver": {
    "Address": "xx"
  },
  "Driver": {
    "Version": "xx",
    "Name": "xx"
  },
  "CUDNN": {
    "DocName": "xx",
    "Version": "xx",
    "Name": "xx",
    "DevName": "xx"
  }
},
"MountTarget": "xx",
"DataDisks": [
  {
    "DiskPartition": "xx",
    "DiskType": "xx",
    "DiskSize": 0,
    "FileSystem": "xx",
    "AutoFormatAndMount": true,
    "MountTarget": "xx"
  }
],
"ExistedInstancesForNode": [
  {
    "ExistedInstancesPara": {
      "InstanceAdvancedSettings": {
        "PreStartUserScript": "xx",
        "DockerGraphPath": "xx",
        "Labels": [
          {
            "Name": "xx",
            "Value": "xx"
          }
        ],
        "ExtraArgs": {
          "Kubelet": [
            "xx"
          ]
        }
      },
      "Taints": [
```

```
{
  "Value": "xx",
  "Key": "xx",
  "Effect": "xx"
},
{
  "Unschedulable": 0,
  "UserScript": "xx",
  "DesiredPodNumber": 0,
  "GPUArgs": {
    "MIGEnable": true,
    "CustomDriver": {
      "Address": "xx"
    },
    "CUDNN": {
      "DocName": "xx",
      "Version": "xx",
      "Name": "xx",
      "DevName": "xx"
    }
  },
  "MountTarget": "xx",
  "DataDisks": [
    {
      "DiskPartition": "xx",
      "DiskType": "xx",
      "DiskSize": 0,
      "FileSystem": "xx",
      "AutoFormatAndMount": true,
      "MountTarget": "xx"
    }
  ],
  "HostName": "xx",
  "LoginSettings": {
    "Password": "xx",
    "KeepImageLogin": "xx",
    "KeyIds": [
      "xx"
    ]
  },
  "SecurityGroupIds": [
    "xx"
  ],
  "EnhancedService": {
    "SecurityService": {
      "Enabled": true
    }
  }
}
```

```
},
"MonitorService": {
  "Enabled": true
},
"AutomationService": {
  "Enabled": true
}
},
"InstanceIds": [
  "xx"
],
"DesiredPodNumbers": [
  0
],
"NodeRole": "xx"
},
"InstanceDataDiskMountSettings": [
{
  "InstanceType": "xx",
  "Zone": "xx",
  "DataDisks": [
    {
      "DiskPartition": "xx",
      "DiskType": "xx",
      "DiskSize": 0,
      "FileSystem": "xx",
      "AutoFormatAndMount": true,
      "MountTarget": "xx"
    }
  ]
}
]
```

Output Example

```
{
  "Response": {
    "ClusterId": "cls-xxx",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

Example2 Creating a self-deployed cluster

This example shows you how to create a self-deployed cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=CreateCluster
&ClusterType=INDEPENDENT_CLUSTER
&ClusterCIDRSettings.ClusterCIDR=10.4.0.0/14
&RunInstancesForNode.0.NodeRole=MASTER_ETCD
&RunInstancesForNode.0.RunInstancesPara.0={ "VirtualPrivateCloud": { "SubnetId": "subnet-xxx", "VpcId": "vpc-xxx", "Placement": { "Zone": "ap-region-1", "ProjectId": 1032509 }, "InstanceType": "S3.LARGE8", "SystemDisk": { "DiskType": "CLOUD_PREMIUM", "DataDisks": [ { "DiskType": "CLOUD_PREMIUM", "DiskSize": 50 } ], "InstanceCount": 3, "InternetAccessible": { "PublicIpAssigned": true, "InternetMaxBandwidthOut": 1 }, "LoginSettings": { "Password": "YourPassword", "UserData": "IyEvYmluL3NoCgplY2hvIGFhYQo=" } }
&RunInstancesForNode.1.NodeRole=WORKER
&RunInstancesForNode.1.RunInstancesPara.0={ "VirtualPrivateCloud": { "SubnetId": "subnet-xxx", "VpcId": "vpc-xxx", "Placement": { "Zone": "ap-region-1", "ProjectId": 1032509 }, "InstanceType": "S3.LARGE8", "SystemDisk": { "DiskType": "CLOUD_PREMIUM", "DataDisks": [ { "DiskType": "CLOUD_PREMIUM", "DiskSize": 50 } ], "InstanceCount": 1, "InternetAccessible": { "PublicIpAssigned": true, "InternetMaxBandwidthOut": 1 }, "LoginSettings": { "Password": "YourPassword", "UserData": "IyEvYmluL3NoCgplY2hvIGFhYQo=" } }
&ExtensionAddons.0.AddonName=GameApp
&ExtensionAddons.0.AddonParam={ "kind": "GameApp", "apiVersion": "platform.tke/v1", "metadata": { "generateName": "ga", "spec": { "clusterName": "xxx" } } }
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterId": "cls-xxx",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.AccountCommon	Failed to obtain user authentication information.
FailedOperation.AccountUserNotAuthenticated	The account is not verified.
FailedOperation.CamNoAuth	Not authorized to access this API
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.CvmCommon	Failed to create the node due to a CVM error
FailedOperation.CvmNumberNotMatch	Some of the specified CVMs are not found.
FailedOperation.CvmVpcidNotMatch	The CVM does not match the VPC ID.
FailedOperation.DbRecordNotFound	Record not found.
FailedOperation.DfwGetUSGQuota	Failed to obtain security group quota.
FailedOperation.NodeExistsSecondaryNetworkInterface	The node has a secondary ENI.
FailedOperation.OsNotSupport	The image OS is not supported.
FailedOperation.Param	Invalid parameter.
FailedOperation.QuotaMaxCIsLimit	Reached the quota limit.

FailedOperation.QuotaMaxNodLimit	Reached the quota limit.
FailedOperation.QuotaUSGLimit	Insufficient security group quota.
FailedOperation.TradeCommon	Query failed.
FailedOperation.VpcCommon	VPC error.
FailedOperation.VpcRecodrNotFound	VPC record not found.
FailedOperation.WhitelistUnexpectedError	Allowlist error.
InternalError	Internal error.
InternalError.AccountCommon	Failed to obtain the user authentication information
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.CidrConflictWithOtherCluster	CIDR conflicts with the CIDR of another cluster.
InternalError.CidrConflictWithOtherRoute	CIDR conflicts with another route.
InternalError.CidrConflictWithVpcCidr	CIDR conflicts with VPC.
InternalError.CidrConflictWithVpcGlobalRoute	CIDR conflicts with global route.
InternalError.CidrInvali	Invalid CIDR.
InternalError.CidrMaskSizeOutOfRange	Invalid CIDR mask.
InternalError.ComponentClnetHttp	Error while requesting (HTTP) other Tencent Cloud services
InternalError.CreateMasterFailed	Failed to create cluster.
InternalError.CvmCommon	Error in node creation.
InternalError.CvmNumberNotMatch	Some of the CVMs cannot be found
InternalError.CvmStatus	Exceptional CVM status.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.DfwGetUSGCount	Failed to obtain total number of current security

	groups.
InternalError.DfwGetUSGQuota	Failed to obtain security group quota.
InternalError.InitMasterFailed	Failed to initialize Master.
InternalError.InvalidPrivateNetworkCidr	Invalid CIDR.
InternalError.OsNotSupport	Image OS not supported.
InternalError.Param	Parameter error.
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.QuotaMaxClsLimit	Quota limit exceeded.
InternalError.QuotaMaxNodLimit	Quota limit exceeded.
InternalError.QuotaUSGLimit	Insufficient security group quota.
InternalError.TaskCreateFailed	Failed to create the task.
InternalError.TradeCommon	Query failed
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.VpcCommon	VPC error
InternalError.VpcRecodrNotFound	VPC record not found
InvalidParameter	Parameter error.
InvalidParameter.CIDRInvalid	Invalid CIDR block.
InvalidParameter.CIDRMaskSizeOutOfRange	Invalid CIDR block mask (valid range: 10 to 24).
InvalidParameter.CidrConflictWithOtherCluster	The CIDR block conflicts with the CIDR blocks of other clusters.
InvalidParameter.CidrConflictWithOtherRoute	The route to create conflicts with existing routes.
InvalidParameter.CidrConflictWithVpcCidr	The CIDR block conflicts with the VPC's CIDR block.
InvalidParameter.CidrConflictWithVpcGlobalRoute	The created route conflicts with the existing global route under the VPC.
InvalidParameter.CidrInvali	Invalid CIDR block.

InvalidParameter.CidrInvalid	Parameter error. The CIDR block does not meet the specification.
InvalidParameter.InvalidPrivateNetworkCIDR	Invalid private CIDR block.
LimitExceeded	Quota limit is exceeded.
ResourceInsufficient.SpecifiedInstanceType	Insufficient CVM resources.

UpdateClusterKubeconfig

Last updated : 2023-09-18 16:00:24

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to update the Kubeconfig information of a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateClusterKubeconfig.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	The cluster ID.
SubAccounts.N	No	Array of String	List of sub-account UINs. If it's not specified, the SubUin used to invoke this API is used.

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

UpdatedSubAccounts	Array of String	List of updated sub-account UINs Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating the Kubeconfig information of a cluster

This example shows you how to update the Kubeconfig information of a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=UpdateClusterKubeconfig
&ClusterId=cls-65r1c5nu
&SubAccounts.0=123456
&SubAccounts.1=123457
&SubAccounts.2=123458
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "UpdatedSubAccounts": [
      "123456",
      "123457",
      "123458"
    ],
    "RequestId": "33483fde-efec-4d3c-8ff6-340d9dbc2d01"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.Db	DB error.
InternalServerError.KubernetesPatchOperationError	Kubernetes Patch operation failed.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

DescribeBackupStorageLocations

Last updated : 2023-09-18 16:00:29

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query backup repositories.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeBackupStorageLocations.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
Names.N	No	Array of String	Names of repositories. If it's not specified, all storage repository names in the current region are returned.

3. Output Parameters

Parameter Name	Type	Description
BackupStorageLocationSet	Array of	Detailed information of the backup repository

	BackupStorageLocation	Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying backup repositories

This example shows you how to query backup repositories.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBackupStorageLocations
<Common request parameters>

{
  "Names": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "BackupStorageLocationSet": [
      {
        "Name": "abc",
        "StorageRegion": "ap-guangzhou",
        "Provider": "tencentcloud",
        "Bucket": "tke-backup-xx",
        "Path": "",
        "State": "Available",
        "Message": "",
        "LastValidationTime": "2023-04-07T03:18:10Z"
      }
    ],
    "RequestId": "05670c78-3fa8-42c8-87ac-e6b06d0f1f96"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter	Parameter error.
ResourceUnavailable	Resource is unavailable
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DeleteBackupStorageLocation

Last updated : 2023-09-18 16:00:30

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a backup repository.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteBackupStorageLocation.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Backup repository name

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Deleting a backup repository

This example shows you how to delete a backup repository. This does not clear the under layer storage data of the repository.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteBackupStorageLocation
<Common request parameters>

{
  "Name": "abc"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "0878bad3-d0aa-4886-beac-7f4d450d55fa"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter	Parameter error.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnknownParameter	Unknown parameter.

CreateBackupStorageLocation

Last updated : 2023-09-18 16:00:31

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a backup repository. You can specify the storage type (such as COS), the bucket region and the name. Up to 100 repositories can be created. Note that the settings of this API apply globally. You only need to create one backup repository, and back up TKE clusters in different regions in it.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateBackupStorageLocation.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
StorageRegion	Yes	String	Repository region, such as <code>ap-guangzhou</code>
Bucket	Yes	String	COS bucket name. For COS storage type, it must start with the prefix <code>tke-backup</code> .
Name	Yes	String	Backup repository name
Provider	No	String	The provider of storage service. It defaults to Tencent Cloud.

Path	No	String	COS bucket path
------	----	--------	-----------------

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a TKE storage repository

This example shows you how to create a TKE storage repository.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateBackupStorageLocation
<Common request parameters>

{
  "StorageRegion": "ap-guangzhou",
  "Provider": "tencentcloud",
  "Bucket": "tke-backup-xxx",
  "Path": "",
  "Name": "test-registry-1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "4bef4bc7-edf2-4de6-a2e1-684bfc37185f"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
ResourceUnavailable	Resource is unavailable
UnknownParameter	Unknown parameter.

Node Pool APIs

DescribeClusterAsGroupOption

Last updated : 2024-07-19 16:17:46

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Cluster auto scaling configuration

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterAsGroupOption.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description

ClusterAsGroupOption	ClusterAsGroupOption	Cluster auto scaling attributes Note: this field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Configuring cluster auto scaling

This example shows you how to configure cluster auto scaling.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterAsGroupOption
&ClusterId=cls-hca1bmif
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterAsGroupOption": {
      "ScaleDownUnreadyTime": 0,
      "ScaleDownDelay": 0,
      "ScaleDownUtilizationThreshold": 0,
      "MaxTotalUnreadyPercentage": 0,
      "IsScaleDownEnabled": true,
      "OkTotalUnreadyCount": 0,
      "SkipNodesWithSystemPods": true,
      "MaxEmptyBulkDelete": 0,
      "UnregisteredNodeRemovalTime": 0,
      "SkipNodesWithLocalStorage": true,
      "IgnoreDaemonSetsUtilization": true,
      "Expander": "random",
      "ScaleDownUnneededTime": 0
    },
    "RequestId": "1b9d6bcd-bbfd-4b2d-9b5d-ab8dfbbd4bed"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.CamNoAuth	You do not have permissions.
InternalError.ClusterNotFound	Cluster not found.

InternalError.ClusterState	Cluster status error.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

RemoveNodeFromNodePool

Last updated : 2023-09-18 16:00:19

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to remove a node from a node pool but retain it in the cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: RemoveNodeFromNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID
InstanceIds.N	Yes	Array of String	The node ID list. Up to 100 nodes can be removed at a time.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Removing nodes from a node pool

This example shows you how to remove nodes from a node pool.

Input Example

```
https://tke.tencentcloudapi.com/?Action=RemoveNodeFromNodePool
&ClusterId=cls-hca1bmif
&NodePoolId=np-5tx2jmn9
&InstanceIds.0=ins-74mbca66
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "1b9d6bcd-bbfd-4b2d-9b5d-ab8dfbbd4bed"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.RecordNotFound	Record not found.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

ModifyClusterNodePool

Last updated : 2023-09-18 16:00:19

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to edit a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID
Name	No	String	Name
MaxNodesNum	No	Integer	Maximum number of nodes
MinNodesNum	No	Integer	Minimum number of nodes

Labels.N	No	Array of Label	Labels
Taints.N	No	Array of Taint	Taints
EnableAutoscale	No	Boolean	Indicates whether auto scaling is enabled.
OsName	No	String	Operating system name
OsCustomizeType	No	String	Image tag, <code>DOCKER_CUSTOMIZE</code> (container customized tag), <code>GENERAL</code> (general tag, default value)
GPUArgs	No	GPUArgs	GPU driver version, CUDA version, cuDNN version and wether to enable MIG
UserScript	No	String	Base64-encoded custom script
IgnoreExistedNode	No	Boolean	Ignore existing nodes when update <code>Label</code> and <code>Taint</code>
ExtraArgs	No	InstanceExtraArgs	Node custom parameter
Tags.N	No	Array of Tag	Resource tag
Unschedulable	No	Integer	Sets whether the added node is schedulable. 0 (default): schedulable; other values: unschedulable. After node initialization is completed, you can run <code>kubect1 uncordon nodename</code> to enable this node for scheduling.
DeletionProtection	No	Boolean	Whether Deletion Protection is enabled
DockerGraphPath	No	String	Specified value of dockerd --graph. Default value: <code>/var/lib/docker</code>

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Editing a node pool

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyClusterNodePool
<Common request parameters>

{
  "ClusterId": "cls-xxxxxx",
  "NodePoolId": "np-xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xxxxxx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.RecordNotFound	Record not found.
InternalError.Db	DB error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
OperationDenied	Operation denied.
ResourceNotFound	The resource does not exist.
ResourceNotFound.AsAsgNotExist	The scaling group does not exist.
UnsupportedOperation.CaEnableFailed	Failed to enable CA because AS is disabled.

DescribeClusterNodePools

Last updated : 2023-09-18 16:00:19

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the node pool list

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterNodePools.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	ClusterId (cluster ID)
Filters.N	No	Array of Filter	· NodePoolsName Filters by the node pool name Type: String Required: No · NodePoolsId Filters by the node pool ID Type: String Required: No

			· tags Filters by key-value pairs of tags Type: String Required: No · tag:tag-key Filters by key-value pairs of tags Type: String Required: No
--	--	--	--

3. Output Parameters

Parameter Name	Type	Description
NodePoolSet	Array of NodePool	NodePools (node pool list) Note: this field may return <code>null</code> , indicating that no valid value is obtained.
TotalCount	Integer	Total resources
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the node pool list

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterNodePools
<Common request parameters>

{
  "ClusterId": "cls-xxxxxx"
}
```

Output Example

```
{
  "Response": {
    "NodePoolSet": [
      {
        "AutoscalingGroupId": "",
        "AutoscalingGroupStatus": "",
        "ClusterInstanceId": "cls-69hshd30",
        "DeletionProtection": false,
        "DesiredNodesNum": 1,
        "DesiredPodNum": 0,
        "ImageId": "",
        "Labels": [],
        "LaunchConfigurationId": "",
        "LifeState": "normal",
        "MaxNodesNum": 1,
        "MinNodesNum": 0,
        "Name": "test",
        "NodeCountSummary": {
          "AutoscalingAdded": {
            "Initializing": 0,
            "Joining": 0,
            "Normal": 0,
            "Total": 0
          },
          "ManuallyAdded": {
            "Initializing": 0,
            "Joining": 0,
            "Normal": 0,
            "Total": 1
          }
        },
        "NodePoolId": "np-5tx2l4de",
        "NodePoolOs": "",
        "OsCustomizeType": "",
        "Tags": null,
        "Taints": [],
        "UserScript": ""
      }
    ],
    "RequestId": "efb810cb-d5a2-4147-88ec-cd1e28c5202e",
    "TotalCount": 1
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.Param	Parameter error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound.ClusterNotFound	The cluster does not exist.

DescribeClusterNodePoolDetail

Last updated : 2023-09-18 16:00:20

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query detailed information of a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterNodePoolDetail.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID

3. Output Parameters

Parameter Name	Type	Description

NodePool	NodePool	Node pool details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying details of a node pool

This example shows you how to query the details of a node pool.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterNodePoolDetail
&ClusterId=cls-xxxxxxx
&NodePoolId=np-xxxxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "NodePool": {
      "NodePoolId": "xx",
      "Name": "xx",
      "ClusterInstanceId": "xx",
      "LifeState": "xx",
      "LaunchConfigurationId": "xx",
      "AutoscalingGroupId": "xx",
      "Labels": [
        {
          "Name": "xx",
          "Value": "xx"
        }
      ],
      "Taints": [
        {
          "Key": "xx",
          "Value": "xx",
          "Effect": "xx"
        }
      ],
      "NodeCountSummary": {
        "ManuallyAdded": {
```

```
"Joining": 0,
"Initializing": 0,
"Normal": 0,
"Total": 0
},
"AutoscalingAdded": {
  "Joining": 0,
  "Initializing": 0,
  "Normal": 0,
  "Total": 0
},
"AutoscalingGroupStatus": "xx",
"MaxNodesNum": 0,
"MinNodesNum": 0,
"DesiredNodesNum": 0,
"NodePoolOs": "xx",
"OsCustomizeType": "xx",
"ImageId": "xx",
"DesiredPodNum": 0,
"UserScript": "xx",
"Tags": [
  {
    "Key": "xx",
    "Value": "xx"
  }
],
"DeletionProtection": true
},
"RequestId": "xx"
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.ClusterNotFound	Cluster not found.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound.ClusterNotFound	The cluster does not exist.

DeleteClusterNodePool

Last updated : 2023-09-18 16:00:20

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	ClusterId of a node pool
NodePoolIds.N	Yes	Array of String	IDs of node pools to delete
KeepInstance	Yes	Boolean	Indicates whether nodes in a node pool are retained when the node pool is deleted. (The nodes are removed from the cluster. However, the corresponding instances will not be terminated.)

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a node pool

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteClusterNodePool
<Common request parameters>

{
  "ClusterId": "cls-xxxxxx",
  "KeepInstance": "true",
  "NodePoolIds": [
    "np-xxxxxxxx"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xxxx"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.RecordNotFound	Record not found.
InternalServerError.Db	DB error.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

CreateClusterNodePool

Last updated : 2023-09-18 16:00:20

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for t CreateClusterNodePool.
Version	Yes	String	Common Params . The value used for t
Region	No	String	Common Params . This parameter is nc
ClusterId	Yes	String	Cluster ID
AutoScalingGroupPara	Yes	String	AS group parameters. For details, see https://www.tencentcloud.com/docume from_cn_redirect=1
LaunchConfigurePara	Yes	String	Running parameters. For details, see https://www.tencentcloud.com/docume from_cn_redirect=1
InstanceAdvancedSettings	Yes	InstanceAdvancedSettings	Sample parameters

EnableAutoscale	Yes	Boolean	Indicates whether to enable auto scaling
Name	No	String	Node pool name
Labels.N	No	Array of Label	Labels
Taints.N	No	Array of Taint	Taints
ContainerRuntime	No	String	Node pool runtime type and version
RuntimeVersion	No	String	Runtime version
NodePoolOs	No	String	Node pool operating system (enter the image, and enter the OS name for a pu
OsCustomizeType	No	String	Container image tag, <code>DOCKER_CUSTOMIZED</code> (customized tag), <code>GENERAL</code> (general
Tags.N	No	Array of Tag	Resource tag
DeletionProtection	No	Boolean	Whether Deletion Protection is enabled

3. Output Parameters

Parameter Name	Type	Description
NodePoolId	String	Node pool ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a node pool

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateClusterNodePool
<Common request parameters>
```

```
{
  "InstanceAdvancedSettings": {
    "PreStartUserScript": "xx",
    "DockerGraphPath": "xx",
    "Labels": [
      {
        "Name": "xx",
        "Value": "xx"
      }
    ],
    "ExtraArgs": {
      "Kubelet": [
        "xx"
      ]
    },
    "Taints": [
      {
        "Value": "xx",
        "Key": "xx",
        "Effect": "xx"
      }
    ],
    "Unschedulable": 0,
    "UserScript": "xx",
    "DesiredPodNumber": 0,
    "GPUArgs": {
      "MIGEnable": true,
      "CustomDriver": {
        "Address": "xx"
      }
    },
    "Driver": {
      "Version": "xx",
      "Name": "xx"
    },
    "CUDA": {
      "Version": "xx",
      "Name": "xx"
    },
    "CUDNN": {
      "DocName": "xx",
      "Version": "xx",
      "Name": "xx",
      "DevName": "xx"
    }
  },
  "MountTarget": "xx",
```

```
"DataDisks": [
{
  "DiskPartition": "xx",
  "DiskType": "xx",
  "DiskSize": 0,
  "FileSystem": "xx",
  "AutoFormatAndMount": true,
  "MountTarget": "xx"
}
],
},
"LaunchConfigurePara": "xx",
"OsCustomizeType": "xx",
"Name": "xx",
"RuntimeVersion": "xx",
"Tags": [
{
  "Value": "xx",
  "Key": "xx"
}
],
"Labels": [
{
  "Name": "xx",
  "Value": "xx"
}
],
"ClusterId": "xx",
"Taints": [
{
  "Value": "xx",
  "Key": "xx",
  "Effect": "xx"
}
],
"EnableAutoscale": true,
"ContainerRuntime": "xx",
"AutoScalingGroupPara": "xx",
"NodePoolOs": "xx"
}
```

Output Example

```
{
  "Response": {
    "NodePoolId": "np-xxx",
```

```
"RequestId": "xxx-xxx-xxxx-xxx-xxxxx"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.AsCommon	An error occurs while creating scaling group resources.
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.PolicyServerCommonError	GPE error.
FailedOperation.UnexpectedError	Unexpected error.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.ComponentClientHttp	Internal HTTP client error

InternalError.Db	DB error.
InternalError.DbRecordNotFound	Record not found.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.OsNotSupport	The iage OS is not supported.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.AsAsgNotExist	The scaling group does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

AddNodeToNodePool

Last updated : 2023-09-18 16:00:20

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to move nodes in a cluster to a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: AddNodeToNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID
InstanceIds.N	Yes	Array of String	Node ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Moving nodes in a cluster to a node pool

Input Example

```
https://tke.tencentcloudapi.com/?Action=AddNodeToNodePool
&ClusterId=cls-xxxxxxx
&NodePoolId=np-xxxxxxx
&InstanceIds.0=ins-xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "xxxxx"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.CvmCommon	Failed to create the node due to a CVM error
InvalidParameter.Param	Invalid parameter.

ModifyClusterAsGroupOptionAttribute

Last updated : 2023-09-18 16:00:19

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to modify cluster auto scaling attributes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterAsGroupOptionAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
ClusterAsGroupOption	Yes	ClusterAsGroupOption	Cluster auto scaling attributes

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the auto scaling configuration of the cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=ModifyClusterAsGroupOptionAttribute
&ClusterId=cls-xxxxxxx
&ClusterAsGroupOption.IsScaleDownEnabled=true
&ClusterAsGroupOption.UnregisteredNodeRemovalTime=x
&ClusterAsGroupOption.OkTotalUnreadyCount=x
&ClusterAsGroupOption.ScaleDownUnreadyTime=x
&ClusterAsGroupOption.MaxTotalUnreadyPercentage=x
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "82f2fe9c-c5fa-4077-9236-f1341180a696"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.KubernetesInternal	Unknown Kubernetes error.
FailedOperation.UnexpectedError	Unexpected error.
InternalError	Internal error.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.CvmCommon	Error in node creation.
InternalError.CvmNotFound	CVM does not exist.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.

UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

SetNodePoolNodeProtection

Last updated : 2023-09-18 16:00:18

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to enable removal protection for the nodes automatically created by the scaling group in a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: SetNodePoolNodeProtection.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID
InstanceIds.N	Yes	Array of String	Node ID
ProtectedFromScaleIn	Yes	Boolean	Whether the node needs removal protection

3. Output Parameters

Parameter Name	Type	Description
SucceedInstanceIds	Array of String	ID of the node that has successfully set the removal protection Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
FailedInstanceIds	Array of String	ID of the node that fails to set the removal protection Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting removal protection for nodes in a node pool

This example shows you how to prevent nodes from being removed from the cluster by the scaling group when scale-in is triggered.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: SetNodePoolNodeProtection
<Common request parameters>

{
  "ProtectedFromScaleIn": "true",
  "ClusterId": "cls-xxx",
  "InstanceIds": [
    "ins-xxx"
  ],
  "NodePoolId": "np-xxx"
}
```

Output Example

```
{
  "Response": {
```

```
"SucceedInstanceIds": [  
  "ins-xxx"  
],  
"FailedInstanceIds": [  
  "xx"  
],  
"RequestId": "xx"  
}  
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.AccountUserNotAuthenticated	Account not verified.
InternalServerError.ClusterNotFound	Cluster not found.

InternalError.Db	DB error.
InternalError.DbRecordNotFound	Record not found.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.

ModifyNodePoolInstanceTypes

Last updated : 2023-09-18 16:00:19

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to modify the model of instances in a node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyNodePoolInstanceTypes.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID
InstanceTypes.N	Yes	Array of String	List of instance types

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the node pool model

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyNodePoolInstanceTypes
<Common request parameters>

{
  "ClusterId": "cls-xxx",
  "InstanceTypes": [
    "ins-xxx"
  ],
  "NodePoolId": "np-xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xxxxxxxxx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
InternalServerError	Internal error.
InternalServerError.AccountUserNotAuthenticated	Account not verified.
InternalServerError.ClusterNotFound	Cluster not found.
InternalServerError.Db	DB error.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.Param	Parameter error.
InternalServerError.UnexceptedInternal	Internal error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

TKE Edge Cluster APIs

DescribeTKEEdgeScript

Last updated : 2024-07-24 10:37:23

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the URL of TKE edge script. You can add external nodes to a TKE Edge cluster by downloading the URL.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTKEEdgeScript.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
Interface	Yes	String	ENI
NodeName	No	String	Name of the name
Config	No	String	Node configuration in JSON format

ScriptVersion	No	String	A legacy version of edgectl script can be downloaded. The latest version is downloaded by default. The version information can be checked in the script.
---------------	----	--------	--

3. Output Parameters

Parameter Name	Type	Description
Link	String	Whether to download the link
Token	String	Whether to download the desired token
Command	String	Whether to download the command
ScriptVersion	String	Version of edgectl script. The latest version is obtained by default. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the URL of TKE Edge script

This example shows you how to obtain the URL to download scripts used to add nodes to an edge cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeTKEEdgeScript
<Common request parameters>

{
  "Interface": "eth0",
  "Config": "{\"Interface\":\"eth0\",\"RuntimePath\":\"/var/lib/docker\",\"EdgeClusterVersion\":\"2.2\",\"TTL\":\"24h\", \"SkipInstallRuntime\":true}\",
  \"ClusterId\": \"cls123\",
  \"NodeName\": \"node\"
}
```


Output Example

```
{
  "Response": {
    "Link": "www.tencent.com",
    "Token": "123456",
    "Command": "wget www.tencent.com",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397",
    "ScriptVersion": "2022112323123"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.

InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

UpdateEdgeClusterVersion

Last updated : 2024-07-24 10:35:30

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to upgrade an edge cluster component to a TKE Edge version.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateEdgeClusterVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
EdgeVersion	Yes	String	Target version
RegistryPrefix	No	String	Prefix of the image repository of a custom edge component
SkipPreCheck	No	Boolean	Whether to skip precheck

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Upgrading an edge cluster

This example shows you how to upgrade an edge cluster add-on.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpdateEdgeClusterVersion
<Common request parameters>

{
  "ClusterId": "cls-xxxxxxx",
  "EdgeVersion": "1.0.1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "2ac430cd-f7de-482e-b98e-f78a48e785e8"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClusterUpgradeNodeVersion	The version of the cluster node is too old.
InternalError	Internal error.
InternalError.ClusterUpgradeNodeVersion	The version of the cluster node is outdated.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

CreateTKEEdgeCluster

Last updated : 2024-07-19 16:14:45

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a TKE Edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateTKEEdgeCluster.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
K8SVersion	Yes	String	
VpcId	Yes	String	VPC ID
ClusterName	Yes	String	Cluster name
PodCIDR	Yes	String	Cluster Pod CIDR block

ServiceCIDR	Yes	String	Cluster service CIDR block
ClusterDesc	No	String	Cluster description
ClusterAdvancedSettings	No	EdgeClusterAdvancedSettings	Cluster advanced settings
MaxNodePodNum	No	Integer	Maximum number of Pods on the node
PublicLB	No	EdgeClusterPublicLB	Public LB of the TKE Edge cluster
ClusterLevel	No	String	Cluster specification level
AutoUpgradeClusterLevel	No	Boolean	Whether auto upgrade is supported
ChargeType	No	String	Cluster billing mode
EdgeVersion	No	String	Edge cluster version. It is the set of versions of all cluster components.
RegistryPrefix	No	String	Prefix of the image registry of an edge component
TagSpecification	No	TagSpecification	Tags bound with the cluster

3. Output Parameters

Parameter Name	Type	Description
ClusterId	String	TKE Edge cluster ID
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Creating an edge compute cluster

This example shows you how to create an edge compute cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateTKEEdgeCluster
<Common request parameters>

{
  "ClusterName": "for_test",
  "PodCIDR": "172.16.0.0/20",
  "VpcId": "vpc-xxx",
  "ServiceCIDR": "192.168.0.0/18",
  "K8SVersion": "1.12.4"
}
```

Output Example

```
{
  "Response": {
    "ClusterId": "cls-xxx",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeTKEEdgeExternalKubeconfig

Last updated : 2023-09-18 16:00:13

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the kubeconfig for access to a TKE Edge cluster through the public network.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTKEEdgeExternalKubeconfig.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
Kubeconfig	String	Kubeconfig file content

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Obtaining the kubeconfig used for accessing an edge compute cluster through the public network

This example shows you how to obtain the kubeconfig used for accessing an edge compute cluster through the public network.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeTKEEdgeExternalKubeconfig
&ClusterId=cls123
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Kubeconfig": "123",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeTKEEdgeClusters

Last updated : 2023-09-18 16:00:14

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the list of TKE Edge clusters.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTKEEdgeClusters.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	No	Array of String	Cluster ID list (when it is empty, all clusters under the account are obtained)
Offset	No	Integer	Offset. Default value: <code>0</code>
Limit	No	Integer	Maximum number of output entries. Default value: <code>20</code>
Filters.N	No	Array of Filter	Filter conditions. Values: <code>ClusterName</code> and tags in the format of <code>["key1:value1","key2:value2"]</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of clusters
Clusters	Array of EdgeCluster	Cluster information list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying cluster information

This example shows you how to query the information of all clusters under the current account.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeTKEEdgeClusters
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "Clusters": [
      {
        "ClusterId": "cls-xxxxxxx",
        "ClusterName": "Cluster AA",
        "K8SVersion": "1.10.5",
        "VpcId": "vpc-xxxxx",
        "PodCIDR": "172.16.0.0/20",
        "ServiceCIDR": "192.168.0.0/18",
        "Status": "running",
        "CreatedTime": "2019-08-16T04:31:26Z",
        "ClusterDesc": "test edge cluster"
      }
    ],
    "RequestId": "a1be36f0-1aa4-4af2-a289-da021bcef89f"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.

ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeTKEEdgeClusterStatus

Last updated : 2023-09-18 16:00:14

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the current status and process information of a TKE Edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTKEEdgeClusterStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Edge compute cluster ID

3. Output Parameters

Parameter Name	Type	Description

Phase	String	Current cluster status
Conditions	Array of ClusterCondition	Array of cluster processes
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status and process information of a TKE Edge cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeTKEEdgeClusterStatus
&ClusterId=cls-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Phase": "Initializing",
    "Conditions": [
      {
        "Type": "Initialize master deployment environment",
        "Status": "True",
        "LastProbeTime": "2020-02-25 12:10:15",
        "LastTransitionTime": "2020-02-25 12:10:15",
        "Reason": "WaitingProcess",
        "Message": "waiting process"
      }
    ],
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeTKEEdgeClusterCredential

Last updated : 2023-09-18 16:00:14

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the authentication information of a TKE Edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeTKEEdgeClusterCredential.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description

Addresses	Array of IPAddress	Access address of the cluster Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Credential	ClusterCredential	Cluster authentication information
PublicLB	EdgeClusterPublicLB	Public network access information of the cluster
InternalLB	EdgeClusterInternalLB	Private network access information of the cluster
CoreDns	String	CoreDns deployment information of the cluster
HealthRegion	String	Multi-region health check deployment information of the cluster
Health	String	Health check deployment information of the cluster
GridDaemon	String	Whether to deploy GridDaemon to support headless service
UnitCluster	String	Access kins clusters over the public network
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the access authentication information of an edge cluster

This example shows you how to obtain access authentication information of an edge cluster, including the kubeconfig file.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeTKEEdgeClusterCredential
&ClusterId=cls-1234abcd
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Addresses": [
      {
        "Type": "advertise",
        "Ip": "169.254.128.200",
        "Port": 60002
      }
    ]
  }
}
```

```
{,
{
  "Type": "public",
  "Ip": "100.98.109.15",
  "Port": 11126
}
],
"Credential": {
  "CACert": "LS0tLS1CRUdJTiBDRVJUSUZJQ0FULQo=",
  "Token": "WBnCe69iqui0HuEZJ0Yac2hvwXQ1jG0j"
},
"CoreDns": "yes",
"HealthRegion": "yes",
"Health": "yes",
"UnitCluster": "yes",
"GridDaemon": "yes",
"PublicLB": {
  "Enabled": true,
  "AllowFromCidrs": [
    "160/254.0.0/16"
  ]
},
"InternalLB": {
  "SubnetId": [
    "vpc-12345"
  ],
  "Enabled": true
},
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeEdgeClusterInstances

Last updated : 2023-09-18 16:00:15

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the TKE Edge cluster node information.

A maximum of 10 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEdgeClusterInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
Limit	Yes	Integer	Max number of returned entries
Offset	Yes	Integer	Offset
Filters.N	No	Array of Filter	Filter condition. Only <code>NodeName</code> is supported.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of nodes in the cluster
InstanceInfoSet	String	Array of node information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the edge compute cluster node information

This example shows you how to query the edge compute cluster node information.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeEdgeClusterInstances
&ClusterID=cls-xxxxx
&Limit=5
&Offset=0
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2",
    "TotalCount": 2,
    "InstanceInfoSet": [
      "info1",
      "info2"
    ]
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

UnsupportedOperation

Unsupported operation.

DescribeEdgeCVMInstances

Last updated : 2023-09-18 16:00:15

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the edge CVM instance information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEdgeCVMInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
Filters.N	No	Array of Filter	Filter condition Only <code>cvm-id</code> is supported.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	Number of instances matched the condition
InstanceInfoSet	Array of String	List of the returned instance information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining edge CVM instance information

This example shows you how to obtain edge CVM instance information.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeEdgeCVMInstances
&ClusterID=cls-xxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2",
    "TotalCount": 2,
    "InstanceInfoSet": [
      "info1",
      "info2"
    ]
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeECMInstances

Last updated : 2023-09-18 16:00:15

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the ECM instance information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeECMInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
Filters.N	No	Array of Filter	Filter condition Only filtering by an ECM ID is supported

3. Output Parameters

--	--	--

Parameter Name	Type	Description
TotalCount	Integer	Number of instances matched the condition
InstanceInfoSet	Array of String	List of the returned instance information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the information of instances in a cluster

This example shows you how to obtain the information of instances in a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeECMInstances
&ClusterID=cls-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2",
    "TotalCount": 2,
    "InstanceInfoSet": [
      "info1",
      "info2"
    ]
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeAvailableTKEEdgeVersion

Last updated : 2023-09-18 16:00:15

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to check the edge component versions and K8s versions supported by TKE Edge.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAvailableTKEEdgeVersion.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	No	String	You can enter the <code>ClusterId</code> to query the current and latest versions of all cluster components.

3. Output Parameters

Parameter Name	Type	Description
Versions	Array of	Version list

	String	
EdgeVersionLatest	String	Latest version of the edge cluster Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
EdgeVersionCurrent	String	Current version of the edge cluster Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Checking the supported K8s versions

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAvailableTKEEdgeVersion
<Common request parameters>

{
  "ClusterId": "cls-xxxxxxx"
}
```

Output Example

```
{
  "Response": {
    "Versions": [
      "1.14.1",
      "1.16.1"
    ],
    "EdgeVersionLatest": "1.0.1",
    "EdgeVersionCurrent": "1.0.1",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

UnsupportedOperation

Unsupported operation.

DeleteTKEEdgeCluster

Last updated : 2023-09-18 16:00:15

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a TKE Edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteTKEEdgeCluster.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Deleting a TKE Edge cluster

This example shows you how to delete a TKE Edge cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteTKEEdgeCluster
&ClusterId=cls-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DeleteEdgeClusterInstances

Last updated : 2023-09-18 16:00:16

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete one or more edge compute instances.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteEdgeClusterInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
InstanceIds.N	Yes	Array of String	Array of instance IDs to be deleted

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting nodes from an edge cluster

This example shows you how to delete nodes from an edge cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteEdgeClusterInstances
&ClusterId=cls-1234abcd
&InstanceIds.0=cvm-xgj3ca32
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DeleteEdgeCVMInstances

Last updated : 2023-09-18 16:00:16

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete one or more edge CVM instances.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteEdgeCVMInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
CvmIdSet.N	Yes	Array of String	IDs of CVMs to be deleted

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting edge CVM instances

This example shows you how to delete edge CVM instances.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteEdgeCVMInstances
&ClusterID=cls-1234abcd
&CvmIdSet.0=cvm-gdf53454
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DeleteECMInstances

Last updated : 2023-09-18 16:00:16

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete one or more ECM instances.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteECMInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
EcmPidSet.N	Yes	Array of String	IDs of ECMs to be deleted

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting an ECM instance

This example shows you how to delete an ECM instance.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteECMInstances
&ClusterID=cls-xxxxxx
&EcmIdSet.0=ecm-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "187c16d5-1f53-4e88-b684-077f0c7369b2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

CreateECMInstances

Last updated : 2023-09-18 16:00:17

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create an ECM instance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateECMInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
ModuleId	Yes	String	Module ID
ZoneInstanceCountISPSet.N	Yes	Array of ECMZoneInstanceCountISP	Instance AZ, number of instances and ISP

Password	No	String	Password
InternetMaxBandwidthOut	No	Integer	Public network bandwidth
ImageId	No	String	Image ID
InstanceName	No	String	Instance name
HostName	No	String	Host name
EnhancedService	No	ECMEnhancedService	Enhanced service (including CWP and Cloud Monitoring)
UserData	No	String	Custom script
External	No	String	Instance extension information
SecurityGroupIds.N	No	Array of String	Security group of the instance

3. Output Parameters

Parameter Name	Type	Description
EcmIdSet	Array of String	ECM ID list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an ECM instance

This example shows you how to create an ECM instance.

Input Example

```
https://tke.tencentcloudapi.com/?Action=CreateECMInstances
&ClusterID=cls-xxxxxx
&ZoneInstanceCountISPSet.0.Zone=ap-zhengzhou-1
&ZoneInstanceCountISPSet.0.InstanceCount=2
&ZoneInstanceCountISPSet.0.ISP=CMCC
&ImageId=img-q9fy0if9
```

```
&HostName=oldhen_4986

&ModuleId=em-0vag13d1
&InstanceName=On-screen comments
&EnhancedService.SecurityService.Enabled=false
&EnhancedService.MonitorService.Enabled=false
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "d40cdb72-7bc0-4b48-b3aa-25e8401f6999",
    "EcmIdSet": [
      "ecm-197252sp",
      "ecm-19725win",
      "ecm-19623ash"
    ]
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

CheckEdgeClusterCIDR

Last updated : 2023-09-18 16:00:17

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to check if the CIDR block of a TKE Edge cluster conflicts with other CIDR blocks.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CheckEdgeClusterCIDR.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
VpcId	Yes	String	Cluster VPC ID
PodCIDR	Yes	String	Cluster Pod CIDR block
ServiceCIDR	Yes	String	Cluster service CIDR block

3. Output Parameters

Parameter Name	Type	Description
ConflictCode	Integer	Return code. Valid values: -1: Internal error 0: No conflict 1: Conflict between VPC and serviceCIDR 2: Conflict between VPC and podCIDR 3: Conflict between serviceCIDR and podCIDR
ConflictMsg	String	CIDR block conflict description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Checking CIDR block conflict for a TKE Edge cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=CheckEdgeClusterCIDR
&VpcId=vpc-xxx
&PodCIDR=10.0.1.10/24
&ServiceCIDR=192.168.0.0/16
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397",
    "ConflictCode": "0",
    "ConflictMsg": "OK"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.VpcCommon	VPC error.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InternalError.CidrConflictWithOtherCluster	CIDR conflicts with the CIDR of another cluster.
InternalError.CidrConflictWithOtherRoute	CIDR conflicts with another route.
InternalError.CidrConflictWithVpcCidr	CIDR conflicts with VPC.
InternalError.CidrConflictWithVpcGlobalRoute	CIDR conflicts with global route.
InternalError.CidrInvalid	Invalid CIDR.
InternalError.CidrMaskSizeOutOfRange	Invalid CIDR mask.
InternalError.CmdTimeout	Command execution timeout.
InternalError.InvalidPrivateNetworkCidr	Invalid CIDR.
InternalError.UnexpectedInternal	Internal error.

InternalError.VpcCommon	VPC error
InternalError.VpcPeerNotFound	Peering connection does not exist
InternalError.VpcRecodrNotFound	VPC record not found
InternalError.VstationError	VstationError.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.RouteTableNotEmpty	Route table is not empty.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

ForwardTKEEdgeApplicationRequestV3

Last updated : 2023-09-18 16:00:13

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to work with the add-ons of a TKE Edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ForwardTKEEdgeApplicationRequestV3.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Method	Yes	String	Access to request the cluster add-on
Path	Yes	String	Path to request the cluster add-on
Accept	No	String	Data format allowed to receive the requested cluster add-on
ContentType	No	String	Data format for requesting the cluster add-on
RequestBody	No	String	Data sent to request the cluster add-on

ClusterName	No	String	Cluster name (for example, <code>cls-1234abcd</code>)
EncodedBody	No	String	Whether to encode the request content

3. Output Parameters

Parameter Name	Type	Description
ResponseBody	String	Data returned after requesting the cluster add-on
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Operating the add-ons of a TKE Edge cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=ForwardTKEEdgeApplicationRequestV3
&Method=GET
&Path=/apis/application.tkestack.io/v1/namespaces/cls-xxxx/apps
&ClusterName=cls-xxxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ResponseBody": "[]",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.RBACForbidden	The sub-account does not have the required RBAC permissions.
InternalError	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

UnsupportedOperation.NotInWhitelist	The user is not in the allowlist.
-------------------------------------	-----------------------------------

UninstallEdgeLogAgent

Last updated : 2023-09-18 16:00:12

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to uninstall the log collection add-on from TKE Edge cluster nodes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UninstallEdgeLogAgent.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Uninstalling the log collection add-on from a TKE Edge cluster node

This example shows you how to uninstall the log collection add-on from a TKE Edge cluster node.

Input Example

```
https://tke.tencentcloudapi.com/?Action=UninstallEdgeLogAgent
&ClusterId=cls-65r1c5nu
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f12a6e20-f950-4af9-8f8b-b6329a4961c2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError.UnexpectedInternal	Unknown internal error.
ResourceNotFound	The resource does not exist.

InstallEdgeLogAgent

Last updated : 2023-09-18 16:00:13

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to install the log collection add-on on TKE Edge cluster nodes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InstallEdgeLogAgent.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Installing the log collection add-on

This example shows you how to install the log collection add-on on TKE Edge cluster nodes.

Input Example

```
https://tke.tencentcloudapi.com/?Action=InstallEdgeLogAgent
&ClusterId=""
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f12a6e20-f950-4af9-8f8b-b6329a4961c2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

DescribeEdgeLogSwitches

Last updated : 2023-09-18 16:00:14

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the status of event storage, cluster auditing and logging.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEdgeLogSwitches.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterIds.N	Yes	Array of String	List of cluster IDs

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

SwitchSet	Array of String	Array of TKE Edge cluster log switches Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status of log-related features

This example shows you how to query the status of log-related features.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeEdgeLogSwitches
<Common request parameters>

{
  "ClusterIds": [
    "cls-xxx1",
    "cls-xxx2"
  ]
}
```

Output Example

```
{
  "Response": {
    "SwitchSet": [
      {
        "ClusterId": "cls-xxx2",
        "Audit": {
          "Enable": true,
          "TopicSet": "a0cd4067-c9a1-a895-907d-03b4025e4f2c",
          "TopicId": "sadfssfasdf-c9a1-a895-907d-03b4025e4f2c"
        },
        "Event": {
          "Enable": true,
          "TopicSet": "sadfssfasdf-564f-a895-907d-03b4025e4f2c",
          "TopicId": "sadfssfasdf-564f-a895-907d-5465tdtewrt"
        }
      }
    ]
  }
}
```

```
{,
  "Log": {
    "Enable": true,
    "TopicSet": "3465345-564f-a895-907d-03b4025e4f2c",
    "TopicId": "6750000-564f-a895-907d-03b4025e4f2c"
  }
},
  "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.RBACForbidden	The sub-account does not have the required RBAC permissions.

InternalError	Internal error.
InternalError.KubernetesClientBuildError	Failed to create the kubernetes client.
InternalError.KubernetesGetOperationError	Failed to obtain the kubernetes resources
InternalError.Param	Parameter error.
UnsupportedOperation	Unsupported operation.

CreateEdgeLogConfig

Last updated : 2023-09-18 16:00:17

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create log collection configuration for a TKE Edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateEdgeLogConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
LogConfig	Yes	String	Log collection configuration in json form
LogsetId	No	String	CLS logset ID

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a log collection rule

This example shows you how to create a log collection rule for an edge cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=CreateEdgeLogConfig
&LogConfig={"apiVersion":"cls.cloud.tencent.com/v1","kind":"LogConfig"... }
&ClusterId=cls-1234abcd
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "f12a6e20-f950-4af9-8f8b-b6329a4961c2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)

- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
ResourceNotFound	The resource does not exist.

CreateEdgeCVMInstances

Last updated : 2023-09-18 16:00:17

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create CVM instances in the specified TKE edge cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateEdgeCVMInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterID	Yes	String	Cluster ID
RunInstancePara	Yes	String	Pass-through parameter for CVM creation in the format of a JSON string. To ensure the idempotency of requests for adding cluster nodes, you need to add the <code>ClientToken</code> field in this parameter. For more information, see the documentation for RunInstances API.
CvmRegion	Yes	String	Region of the CVM instances to create
CvmCount	Yes	Integer	Quantity of CVM instances to create

External	No	String	Instance extension information
UserScript	No	String	Custom script
EnableEni	No	Boolean	Whether to enable ENI

3. Output Parameters

Parameter Name	Type	Description
CvmIdSet	Array of String	List of CVM IDs
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating CVM instances in TKE edge cluster

This example shows you how to create CVM instances in the specified TKE edge cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=CreateEdgeCVMInstances
&ClusterID=cls-xxxxx
&CvmRegion=ap-guangzhou
&CvmCount=3
&UserScript=whoami
&RunInstancePara={}
&EnableEni=true
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "d40cdb72-7bc0-4b48-b3aa-25e8401f6999",
    "CvmIdSet": [
      "cvm-197252sp",
```

```
"cvm-19725win",  
"cvm-19623ash"  
]  
}  
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.CamNoAuth	You do not have permissions.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.

MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeEdgeClusterUpgradeInfo

Last updated : 2023-09-18 16:00:14

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the upgrade information of an edge cluster, including the upgradeable components, the current upgrade status, and errors occur during the upgrade.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEdgeClusterUpgradeInfo.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClusterId	Yes	String	Cluster ID
EdgeVersion	Yes	String	Target TKEEdge version

3. Output Parameters

--	--	--

Parameter Name	Type	Description
ComponentVersion	String	Upgradeable cluster component Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
EdgeVersionCurrent	String	Current version of the edge cluster Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
RegistryPrefix	String	Prefix of the image registry of an edge component (including domain name and namespace) Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ClusterUpgradeStatus	String	Cluster upgrade status. Valid values: <code>Running</code> , <code>Updating</code> , <code>Failed</code> Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ClusterUpgradeStatusReason	String	Reason for <code>Updating</code> or <code>Failed</code> Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying upgrade information of an edge cluster

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeEdgeClusterUpgradeInfo
<Common request parameters>

{
  "EdgeVersion": "1.0.2",
  "ClusterId": "cls-xxxxxx"
}
```


Output Example

```
{
  "Response": {
    "RequestId": "67a0dd10-ef28-49a1-8834-7a5fa7a9bac0",
    "EdgeVersionCurrent": "1.1.0",
    "ComponentVersion": "{\\\"hyperkube\\\":{\\\"},\\\"kube-proxy\\\":{\\\"},\\\"coredns\\\":{\\\"InitImageName\\\":\\\"\\\",\\\"InitImageVersion\\\":\\\"\\\",\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"1.6.7\\\"},\\\"flannel\\\":{\\\"InitImageName\\\":\\\"\\\",\\\"InitImageVersion\\\":\\\"\\\",\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"v0.12.0-edge-2.0\\\"},\\\"gpu-plugin\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"v0.9.0\\\"},\\\"site-manager\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"v0.6.0\\\"},\\\"application-grid-controller\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"1.21.1\\\"},\\\"application-grid-wrapper\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"1.20.3\\\"},\\\"tunnel\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"v0.8.0\\\"},\\\"edge-health\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"edge-health-admission\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"event\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"griddaemon\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"metric-server\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"standalone-metrics\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"hpa-metrics-server\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"\\\"},\\\"tke-monitor-agent\\\":{\\\"ImageName\\\":\\\"\\\",\\\"ImageVersion\\\":\\\"20220714-3b31e8d2\\\"}}\",
    "RegistryPrefix": "",
    "ClusterUpgradeStatus": "updating",
    "ClusterUpgradeStatusReason": "component application-grid-controller:Back-off pulling image \\\"ccr.ccs.tencentyun.com/tkeedge/application-grid-controller:1.21.1-x\\\"\\\"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
MissingParameter	Missing parameter.
UnknownParameter	Unknown parameter.

Introduction

Last updated : 2021-03-24 17:51:17

Tencent Kubernetes Engine (TKE) make it easy for you to build, operate, and manage container clusters by utilizing Tencent Cloud computing, networking, storage, monitoring, and security capabilities. With TKE, you can enhance development efficiency, update the application delivery method, and reconfigure data management. TKE simplifies cluster management and allows you to quickly deploy your applications, helping you migrate your business to Tencent Cloud.

Note :

All TKE APIs in this section have been upgraded to API 3.0. Future TKE features will also be added here. We recommend using API 3.0.

Making API Requests

Request Structure

Last updated : 2024-07-19 16:13:09

1. Service Address

The API supports access from either a nearby region (at tke.tencentcloudapi.com) or a specified region (at tke.ap-guangzhou.tencentcloudapi.com for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "tke.ap-guangzhou.tencentcloudapi.com".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	tke.tencentcloudapi.com
South China (Guangzhou)	tke.ap-guangzhou.tencentcloudapi.com
East China (Shanghai)	tke.ap-shanghai.tencentcloudapi.com
North China (Beijing)	tke.ap-beijing.tencentcloudapi.com
Southwest China (Chengdu)	tke.ap-chengdu.tencentcloudapi.com
Southwest China (Chongqing)	tke.ap-chongqing.tencentcloudapi.com
Hong Kong, Macao, Taiwan (Hong Kong, China)	tke.ap-hongkong.tencentcloudapi.com
Southeast Asia (Singapore)	tke.ap-singapore.tencentcloudapi.com
Southeast Asia (Bangkok)	tke.ap-bangkok.tencentcloudapi.com

South Asia (Mumbai)	tke.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	tke.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	tke.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	tke.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	tke.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	tke.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	tke.eu-frankfurt.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

Last updated : 2024-07-19 16:13:11

Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data you work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request is sent. For example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request/Region, SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is the UNIX timestamp in UTC time, and this value must match the value of X-TC-Timestamp (a co

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencent refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication information type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

```
https://cvm.tencentcloudapi.com/
```

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

```
Content-Type: multipart/form-data; boundary=58731222010402
```

```
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
```

```
X-TC-Version: 2017-03-12
```

```
X-TC-Timestamp: 1527672334
```

```
X-TC-Region: ap-guangzhou
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Offset"
```

```
0
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Limit"
```

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.

Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

```
Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/
```

```
Host: cvm.tencentcloudapi.com
```

```
Content-Type: application/x-www-form-urlencoded
```

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
North China (Beijing)	ap-beijing
South China (Guangzhou)	ap-guangzhou
East China (Nanjing)	ap-nanjing
East China (Shanghai)	ap-shanghai
Southeast Asia (Singapore)	ap-singapore

Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) console page.
3. On the [TencentCloud API Key](#) page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including [Python](#), [Java](#), [PHP](#), [Go](#), [NodeJS](#) and [.NET](#). In addition, it provides [API Explorer](#) which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****` and `Gu5t9xGARNpq86cd98joQYCN3*****`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
```

```
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>. Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

`[{"Values": ["unnamed"], "Name": "instance-name"}]}` in this example
 The pseudocode for calculation is
 Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the payload of the HTTP request, performing hexadecimal encoding, and finally converting the encoded string to lowercase letters. For GET requests, `RequestPayload` is always an empty string. The calculation result in this example is
`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

POST

/

content-type:application/json; charset=utf-8

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```
StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
```

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always <code>TC3-HMAC-SHA256</code> .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter <code>X-TC-Timestamp</code> in request header, which is the UNIX timestamp of the current time in seconds, such as <code>1551113065</code> in this example.
CredentialScope	Scope of the credential in the format of <code>Date/service/tc3_request</code> , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; <code>service</code> is the product name, which should be the domain name of the product called. The calculation result in this example is <code>2018-05-25/cvm/tc3_request</code> .

HashedCanonicalRequest

Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))). The calculation result in this example is

```
2815843035062ffffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062ffffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1) Calculate the derived signature key with the following pseudocode:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*****"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., <code>Gu5t9xGARNpq86cd98joQYCN3*****</code> .
Date	The Date field information in <code>Credential</code> , such as <code>2019-02-25</code> in this example.
Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> in this example.

2) Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =  
Algorithm + ' ' +  
'Credential=' + SecretId + '/' + CredentialScope + ', ' +  
'SignedHeaders=' + SignedHeaders + ', ' +  
'Signature=' + Signature
```

Field Name	Explanation
Algorithm	Signature algorithm, which is always <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****</code> .
CredentialScope	Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
SignedHeaders	Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.
Signature	Signature value. The calculation result in this example is <code>c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff</code> .

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/  
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff  
Content-Type: application/json; charset=utf-8  
Host: cvm.tencentcloudapi.com
```



```
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12.`

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
    private final static Charset UTF8 = StandardCharsets.UTF_8;
    private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
    private final static String CT_JSON = "application/json; charset=utf-8";

    public static byte[] hmac256(byte[] key, String msg) throws Exception {
        Mac mac = Mac.getInstance("HmacSHA256");
        SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
        mac.init(secretKeySpec);
        return mac.doFinal(msg.getBytes(UTF8));
    }

    public static String sha256Hex(String s) throws Exception {
        MessageDigest md = MessageDigest.getInstance("SHA-256");
        byte[] d = md.digest(s.getBytes(UTF8));
        return DatatypeConverter.printHexBinary(d).toLowerCase();
    }

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
        String region = "ap-guangzhou";
        String action = "DescribeInstances";
        String version = "2017-03-12";
        String algorithm = "TC3-HMAC-SHA256";
        String timestamp = "1551113065";
        //String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
        // Pay attention to the time zone; otherwise, errors may occur
        sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
        String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

        // ***** Step 1: Concatenate the CanonicalRequest string *****
        String httpRequestMethod = "POST";
```

```

String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ***** Step 2: Concatenate the string to sign *****
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ***** Step 3: Calculate the signature *****
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, stringToSign)).toLowerCase();
System.out.println(signature);

// ***** Step 4: Concatenate the Authorization *****
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);

TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
.append(" -H \"Authorization: ").append(authorization).append("\")")

```

```

.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\"")
.append(" -H \"X-TC-Action: ").append(action).append("\"")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\"")
.append(" -H \"X-TC-Version: ").append(version).append("\"")
.append(" -H \"X-TC-Region: ").append(region).append("\"")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
}

```

Python

```

# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"]}]}

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
canonical_querystring + "\n" +

```

```

canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexdigest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)

# ***** Step 3: Calculate the Signature *****
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha256).hexdigest()
print(signature)

# ***** Step 4: Concatenate the Authorization *****
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)

print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '" '
+ ' -H "Content-Type: application/json; charset=utf-8" '
+ ' -H "Host: ' + host + '" '
+ ' -H "X-TC-Action: ' + action + '" '
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '" '
+ ' -H "X-TC-Version: ' + version + '" '
+ ' -H "X-TC-Region: ' + region + '" '
+ " -d '" + payload + "'")

```

Golang

```
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "encoding/hex"
    "fmt"
    "time"
)

func sha256hex(s string) string {
    b := sha256.Sum256([]byte(s))
    return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
    hashed := hmac.New(sha256.New, []byte(key))
    hashed.Write([]byte(s))
    return string(hashed.Sum(nil))
}

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    host := "cvm.tencentcloudapi.com"
    algorithm := "TC3-HMAC-SHA256"
    service := "cvm"
    version := "2017-03-12"
    action := "DescribeInstances"
    region := "ap-guangzhou"
    //var timestamp int64 = time.Now().Unix()
    var timestamp int64 = 1551113065

    // step 1: build canonical request string
    httpRequestMethod := "POST"
    canonicalURI := "/"
    canonicalQueryString := ""
    canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
    host + "\n"
    signedHeaders := "content-type;host"
    payload := `{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
    hashedRequestPayload := sha256hex(payload)
    canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
    httpRequestMethod,
    canonicalURI,
```

```

canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}

```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date. "/" . $service. "/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);
$stringToSign = $algorithm. "\n"
.$timestamp. "\n"
.$credentialScope. "\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3". $secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;
```



```
// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/".$credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://".$host
.' -H "Authorization: '.$authorization.'"
.' -H "Content-Type: application/json; charset=utf-8"
.' -H "Host: '.$host.'"
.' -H "X-TC-Action: '.$action.'"
.' -H "X-TC-Timestamp: '.$timestamp.'"
.' -H "X-TC-Version: '.$version.'"
.' -H "X-TC-Region: '.$region.'"
." -d ".$payload."";
echo $curl.PHP_EOL;
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*****'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
```

```

canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ***** Step 3: Calculate the Signature *****
digest = OpenSSL::Digest.new('sha256')
secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ***** Step 4: Concatenate the Authorization *****
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \

```

```
+ ' -H "Authorization: ' + authorization + "' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + "' \
+ ' -H "X-TC-Action: ' + action + "' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + "' \
+ ' -H "X-TC-Version: ' + version + "' \
+ ' -H "X-TC-Region: ' + region + "' \
+ " -d '" + payload + "'"
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
    public static string SHA256Hex(string s)
    {
        using (SHA256 algo = SHA256.Create())
        {
            byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
            StringBuilder builder = new StringBuilder();
            for (int i = 0; i < hashbytes.Length; ++i)
            {
                builder.Append(hashbytes[i].ToString("x2"));
            }
            return builder.ToString();
        }
    }

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))
        {
            return mac.ComputeHash(msg);
        }
    }

    public static Dictionary<String, String> BuildHeaders(string secretid,
        string secretkey, string service, string endpoint, string region,
        string action, string version, DateTime date, string requestPayload)
    {
        string datestr = date.ToString("yyyy-MM-dd");
        DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
        long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
```

```

dpointRounding.AwayFromZero) / 1000;
// ***** Step 1: Concatenate the CanonicalRequest string *****
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----");

// ***** Step 2: Concatenate the string to sign *****
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + cre
dentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----");

// ***** Step 3: Calculate the signature *****
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----");

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);

```

```
Console.WriteLine("-----");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

public static void Main(string[] args)
{
    // SecretID and SecretKey
    string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    string service = "cvm";
    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a project, use the following parameter:
    // DateTime date = DateTime.UtcNow;
    // Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
    DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds(1551113065);
    string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u547d\\u540d\"], \"Name\": \"instance-name\"}]}";

    Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service, endpoint, region, action, version, date, requestPayload);

    Console.WriteLine("POST https://cvm.tencentcloudapi.com");
    foreach (KeyValuePair<string, string> kv in headers)
    {
        Console.WriteLine(kv.Key + ": " + kv.Value);
    }
    Console.WriteLine();
    Console.WriteLine(requestPayload);
}
```

NodeJS

```

const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
  const hmac = crypto.createHmac('sha256', secret)
  return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
  const hash = crypto.createHash('sha256')
  return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
  const date = new Date(timestamp * 1000)
  const year = date.getUTCFullYear()
  const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
  const day = ('0' + date.getUTCDate()).slice(-2)
  return `${year}-${month}-${day}`
}

function main(){

const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

const endpoint = "cvm.tencentcloudapi.com"
const service = "cvm"
const region = "ap-guangzhou"
const action = "DescribeInstances"
const version = "2017-03-12"
//const timestamp = getTime()
const timestamp = 1551113065
const date = getDate(timestamp)

// ***** Step 1: Concatenate the CanonicalRequest string *****
const signedHeaders = "content-type;host"

const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}"

const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"

```

```

+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("-----")

// ***** Step 2: Concatenate the string to sign *****
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("-----")

// ***** Step 3: Calculate the signature *****
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("-----")

// ***** Step 4: Concatenate the Authorization *****
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("-----")

const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + '"'
console.log(Call_Information)
}
main()

```

C++

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&timestamp);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
    unsigned char hash[SHA256_DIGEST_LENGTH];
    SHA256_CTX sha256;
    SHA256_Init(&sha256);
    SHA256_Update(&sha256, str.c_str(), str.size());
    SHA256_Final(hash, &sha256);
    std::string NewString = "";
    for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
    {
        sprintf(buf, sizeof(buf), "%02x", hash[i]);
        NewString = NewString + buf;
    }
    return NewString;
}
```



```
}  
  
string HmacSha256(const string &key, const string &input)  
{  
    unsigned char hash[32];  
  
    HMAC_CTX *h;  
    #if OPENSSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX hmac;  
    HMAC_CTX_init(&hmac);  
    h = &hmac;  
    #else  
    h = HMAC_CTX_new();  
    #endif  
  
    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);  
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());  
    unsigned int len = 32;  
    HMAC_Final(h, hash, &len);  
  
    #if OPENSSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX_cleanup(h);  
    #else  
    HMAC_CTX_free(h);  
    #endif  
  
    std::stringstream ss;  
    ss << std::setfill('0');  
    for (int i = 0; i < len; i++)  
    {  
        ss << hash[i];  
    }  
  
    return (ss.str());  
}  
  
string HexEncode(const string &input)  
{  
    static const char* const lut = "0123456789abcdef";  
    size_t len = input.length();  
  
    string output;  
    output.reserve(2 * len);  
    for (size_t i = 0; i < len; ++i)  
    {  
        const unsigned char c = input[i];  
        output.push_back(lut[c >> 4]);  
        output.push_back(lut[c & 15]);  
    }  
}
```

```

return output;
}

int main()
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ***** Step 1: Concatenate the CanonicalRequest string *****
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----" << endl;

// ***** Step 2: Concatenate the string to sign *****
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----" << endl;

// ***** Step 3: Calculate the signature *****
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");

```

```

string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----" << endl;

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: \" + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\"" + "\n"
+ " -H \"Host: \" + host + "\n"
+ " -H \"X-TC-Action: \" + action + "\n"
+ " -H \"X-TC-Timestamp: \" + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: \" + version + "\n"
+ " -H \"X-TC-Region: \" + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};

```

Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) page.
3. On the [API Key Management](#) page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

- SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
- SecretKey: Gu5t9xGARNpq86cd98joQYCN3*****

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
  'Action' : 'DescribeInstances',
  'InstanceIds.0' : 'ins-09dx96dg',
  'Limit' : 20,
  'Nonce' : 11886,
  'Offset' : 0,
  'Region' : 'ap-guangzhou',
  'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****',
  'Timestamp' : 1465185768,
  'Version' : '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

Note: The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*****&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then

encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*****';  
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Timestamp=1465185768&Version=2017-03-12';  
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));  
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is zmmjn35mikh6pM3V7sUEuX4wyYM=, the final signature string request parameter (Signature) is zmmjn35mikh6pM3V7sUEuX4wyYM%3D, which will be used to generate the final request URL.

Note: If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

Note: Other parameter values also need to be encoded using [RFC 3986](#). Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.

4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12
```

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of the parameters in the actual request URL.
        for (String k : params.keySet()) {
            // The request string needs to be URL encoded. As the Key is all in English letters, only the value is URL encoded here.
            url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
        }
    }
}
```

```

}
return url.toString().substring(0, url.length() - 1);
}
public static void main(String[] args) throws Exception {
    TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enables automatic sorting
    // A random number should be used when actually calling, for example: params.put("Nonce", new Random().nextInt(Integer.MAX_VALUE));
    params.put("Nonce", 11886); // Common parameter
    // The current time of the system should be used when actually calling, for example: params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"); // Common parameter
    params.put("Action", "DescribeInstances"); // Common parameter
    params.put("Version", "2017-03-12"); // Common parameter
    params.put("Region", "ap-guangzhou"); // Common parameter
    params.put("Limit", 20); // Business parameter
    params.put("Offset", 0); // Business parameter
    params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
    params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3*****", "HmacSHA1")); // Common parameter
    System.out.println(getUrl(params));
}
}

```

Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```

# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time
import requests

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "?"
    query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
    return s + query_str

def sign_str(key, s, method):
    hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
    return base64.b64encode(hmac_str)

```

```
if __name__ == '__main__':
    endpoint = "cvm.tencentcloudapi.com"
    data = {
        'Action': 'DescribeInstances',
        'InstanceIds.0': 'ins-09dx96dg',
        'Limit': 20,
        'Nonce': 11886,
        'Offset': 0,
        'Region': 'ap-guangzhou',
        'SecretId': secret_id,
        'Timestamp': 1465185768, # int(time.time())
        'Version': '2017-03-12'
    }
    s = get_string_to_sign("GET", endpoint, data)
    data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
    print(data["Signature"])
    # An actual invocation would occur here, which may incur fees after success
    # resp = requests.get("https://" + endpoint, params=data)
    # print(resp.url)
```

Golang

```
package main
import (
    "bytes"
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "fmt"
    "sort"
)
func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    params := map[string]string{
        "Nonce": "11886",
        "Timestamp": "1465185768",
        "Region": "ap-guangzhou",
        "SecretId": secretId,
        "Version": "2017-03-12",
        "Action": "DescribeInstances",
        "InstanceIds.0": "ins-09dx96dg",
        "Limit": "20",
        "Offset": "0",
    }
    var buf bytes.Buffer
```

```

buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")
// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
    keys = append(keys, k)
}
sort.Strings(keys)
for i := range keys {
    k := keys[i]
    buf.WriteString(k)
    buf.WriteString("=")
    buf.WriteString(params[k])
    buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)
hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())
fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}

```

PHP

```

<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$params["Nonce"] = 11886; //rand();
$params["Timestamp"] = 1465185768; //time();
$params["Region"] = "ap-guangzhou";
$params["SecretId"] = $secretId;
$params["Version"] = "2017-03-12";
$params["Action"] = "DescribeInstances";
$params["InstanceIds.0"] = "ins-09dx96dg";
$params["Limit"] = 20;
$params["Offset"] = 0;
ksort($params);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $params as $key => $value ) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini

```

```
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"
method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
  'Action' => 'DescribeInstances',
  'InstanceIds.0' => 'ins-09dx96dg',
  'Limit' => 20,
  'Nonce' => 11886,
  'Offset' => 0,
  'Region' => 'ap-guangzhou',
  'SecretId' => secret_id,
  'Timestamp' => 1465185768, # Time.now.to_i
  'Version' => '2017-03-12',
}
sign = method + endpoint + '/*?'
params = []
data.sort.each do |item|
  params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sign))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

```
# res = Net::HTTP.get_response(uri)
# puts res.body
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;
public class Application {
public static string Sign(string signKey, string secret)
{
string signRet = string.Empty;
using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
{
byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
signRet = Convert.ToBase64String(hash);
}
return signRet;
}
public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}
public static void Main(string[] args)
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

```

// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();
string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
    result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}

```

NodeJS

```

const crypto = require('crypto');
function get_req_url(params, endpoint){
    params['Signature'] = escape(params['Signature']);
    const url_strParam = sort_params(params)
    return "https://" + endpoint + "/" + url_strParam.slice(1);
}
function formatSignString(reqMethod, endpoint, path, strParam){

```

```
let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
return strSign;
}
function sha1(secretKey, strsign){
let signMethodMap = {'HmacSHA1': "sha1"};
let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}
function sort_params(params) {
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
//k = k.replace(/_/g, '.');
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}
function main() {
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"
const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)
let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;
strParam = sort_params(params)
const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----")
params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
```



```
console.log("-----")
const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("-----")
console.log(req_url)
}
main()
```

Responses

Last updated : 2024-07-19 16:13:12

Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceStatusSet": [],
    "RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
  }
}
```

- The API will return `Response` , which contains `RequestId` , as long as it processes the request. It does not matter if the request is successful or not.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus` . `0` `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please ensure your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.

Error Code	Description
MissingParameter	A parameter is missing.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Add-on APIs

InstallAddon

Last updated : 2023-09-18 16:00:32

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to install an add-on on the target cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: InstallAddon.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
AddonName	Yes	String	Add-on name
AddonVersion	No	String	Add-on version. If it is not specified, the latest version is installed by default.
RawValues	No	String	Add-on parameters in a base64-encoded JSON string. You can query add-on parameters via <code>DescribeAddonValues</code> .

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Installing an add-on

This example shows you how to install an add-on on the target cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: InstallAddon
<Common request parameters>

{
  "ClusterId": "cls-123deabc",
  "AddonName": "cbs"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

DescribeAddonValues

Last updated : 2023-09-18 16:00:32

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query parameters of an add-on.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAddonValues.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
AddonName	Yes	String	Add-on name

3. Output Parameters

Parameter Name	Type	Description

Values	String	Parameters in a JSON string. If the add-on has been installed, the configured parameters are used for rendering.
DefaultValues	String	List of parameters supported by the add-on in a JSON string. The default values are used.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying parameters of an add-on

This example shows you how to query parameters of an add-on.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAddonValues
<Common request parameters>

{
  "ClusterId": "cls-123deabc",
  "AddonName": "eniipamd"
}
```

Output Example

```
{
  "Response": {
    "Values": "",
    "DefaultValues": "",
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
ResourceUnavailable	Resource is unavailable

UpdateAddon

Last updated : 2023-09-18 16:00:32

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to update parameters and version of an add-on.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: UpdateAddon.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
AddonName	Yes	String	Add-on name
AddonVersion	No	String	Add-on version. The add-on version is not updated if this parameter is not specified.
RawValues	No	String	Add-on parameters in a base64-encoded JSON string. You can query add-on parameters via <code>DescribeAddonValues</code> .

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Updating an add-on

This example shows you how to query the version and parameters of an add-on.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: UpdateAddon
<Common request parameters>

{
  "ClusterId": "cls-123deabc",
  "AddonName": "cbs",
  "AddonVersion": "1.1.0"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

DeleteAddon

Last updated : 2023-09-18 16:00:32

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete an add-on.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteAddon.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
AddonName	Yes	String	Add-on name

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

		locating a problem.
--	--	---------------------

4. Example

Example1 Deleting an add-on

This example shows you how to delete an add-on.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteAddon
<Common request parameters>

{
  "ClusterId": "cls-123deabc",
  "AddonName": "cbs"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

DescribeAddon

Last updated : 2024-07-19 16:13:35

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the list of add-ons.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeAddon.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
AddonName	No	String	Add-on name (all add-ons in the cluster are returned if this parameter is not specified)

3. Output Parameters

Parameter Name	Type	Description

Addons	Array of Addon	List of add-ons
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying add-on lists

This example shows you how to query one or more add-ons.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAddon
<Common request parameters>

{
  "ClusterId": "cls-123deabc",
  "AddonName": "cbs"
}
```

Output Example

```
{
  "Response": {
    "Addons": [
      {
        "AddonName": "cbs",
        "AddonVersion": "1.1.0",
        "RawValues": ""
      }
    ],
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

Network APIs

DescribeRouteTableConflicts

Last updated : 2023-09-18 16:00:22

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the list of route table conflicts.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeRouteTableConflicts.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
RouteTableCidrBlock	Yes	String	Route table CIDR
VpcId	Yes	String	VPC bound to the route table

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

HasConflict	Boolean	Whether there is a conflict in the route table.
RouteTableConflictSet	Array of RouteTableConflict	Route table conflict list. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the route table conflicts

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeRouteTableConflicts
<Common request parameters>

{
  "RouteTableCidrBlock": "10.4.0.0/16",
  "VpcId": "vpc-abcdefgh"
}
```

Output Example

```
{
  "Response": {
    "HasConflict": false,
    "RouteTableConflictSet": [
      {
        "RouteTableType": "CcsCluster",
        "RouteTableCidrBlock": "172.20.0.0/16",
        "RouteTableName": "tke-test",
        "RouteTableId": "cls-abcdefgh"
      }
    ],
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.Param	Invalid parameter.
FailedOperation.VpcRecodrNotFound	VPC record not found.
InternalError	Internal error.
InternalError.CidrMaskSizeOutOfRange	Invalid CIDR mask.
InternalError.InvalidPrivateNetworkCidr	Invalid CIDR.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InternalError.VpcRecodrNotFound	VPC record not found
InvalidParameter	Parameter error.

DescribeClusterRoutes

Last updated : 2023-09-18 16:00:22

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query cluster routes.

A maximum of 50 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterRoutes.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
RouteTableName	Yes	String	Route table name.
Filters.N	No	Array of Filter	Filtering conditions, which are optional. Currently, only filtering by GatewayIP is supported.

3. Output Parameters

Parameter Name	Type	Description

TotalCount	Integer	Number of instances that match the filter condition(s).
RouteSet	Array of RouteInfo	Object of cluster route.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying routes of a cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterRoutes
&RouteTableName=MANAGED_CLUSTER
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RouteSet": [
      {
        "RouteTableName": "MANAGED_CLUSTER",
        "DestinationCidrBlock": "10.4.0.0/24",
        "GatewayIp": "10.0.0.3"
      }
    ],
    "TotalCount": 1,
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.Db	Database error.
InternalServerError.Db	DB error.
InternalServerError.Param	Parameter error.
InvalidParameter	Parameter error.

DescribeClusterRouteTables

Last updated : 2023-09-18 16:00:23

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query one or more cluster route tables.

A maximum of 50 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterRouteTables.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instances that match the filter condition(s).
RouteTableSet	Array of	Object of cluster route table.

	RouteTableInfo	
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a cluster route table

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterRouteTables
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RouteTableSet": [
      {
        "VpcId": "vpc-xxx",
        "RouteTableCidrBlock": "10.4.0.0/16",
        "RouteTableName": "MANAGED_CLUSTER"
      }
    ],
    "TotalCount": 1,
    "RequestId": "74883e1b-5901-46de-ae1e-d6e2cf591c5b"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.Db	DB error.

DeleteClusterRouteTable

Last updated : 2023-09-18 16:00:23

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete cluster a route table.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterRouteTable.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
RouteTableName	Yes	String	Route table name

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a cluster route table

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteClusterRouteTable
&RouteTableName=MANAGED_CLUSTER
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "a1be36f0-1aa4-4af2-a289-da021bcef89f"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error.
InternalError.Db	DB error.
InternalError.RouteTableNotEmpty	Route table is not empty.
InvalidParameter	Parameter error.
InvalidParameter.RouteTableNotEmpty	Route table is not empty.

DeleteClusterRoute

Last updated : 2023-09-18 16:00:23

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a cluster route.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterRoute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
RouteTableName	Yes	String	Route table name.
GatewayIp	Yes	String	Next hop address.
DestinationCidrBlock	Yes	String	Destination CIDR.

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting cluster routes

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteClusterRoute
&RouteTableName=MANAGED_CLUSTER
&DestinationCidrBlock=10.4.0.0/24
&GatewayIp=10.0.0.3
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "a1be36f0-1aa4-4af2-a289-da021bcef89f"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.Param	Invalid parameter.
FailedOperation.VpcCommon	VPC error.
InternalError	Internal error.
InternalError.Db	DB error.
InternalError.Param	Parameter error.
InternalError.RouteTableNotFound	Route table does not exist.
InternalError.VpcCommon	VPC error
InvalidParameter	Parameter error.

CreateClusterRouteTable

Last updated : 2023-09-18 16:00:23

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a cluster route table.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusterRouteTable.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
RouteTableName	Yes	String	Route table name
RouteTableCidrBlock	Yes	String	Route table CIDR
VpcId	Yes	String	VPC bound to the route table
IgnoreClusterCidrConflict	No	Integer	Whether to ignore CIDR conflicts

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a cluster route table

Input Example

```
https://tke.tencentcloudapi.com/?Action=CreateClusterRouteTable
&RouteTableName=MANAGED_CLUSTER
&RouteTableCidrBlock=10.4.0.0/16
&VpcId=vpc-xxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "a1be36f0-1aa4-4af2-a289-da021bcef89f"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.CidrConflictWithOtherCluster	CIDR conflicts with the CIDR of another cluster.
InternalServerError.CidrConflictWithOtherRoute	CIDR conflicts with another route.
InternalServerError.CidrConflictWithVpcCidr	CIDR conflicts with VPC.
InternalServerError.CidrConflictWithVpcGlobalRoute	CIDR conflicts with global route.
InternalServerError.Db	DB error.
InternalServerError.Param	Parameter error.
InternalServerError.QuotaMaxRtLimit	Quota limit exceeded.
InternalServerError.ResourceExistAlready	Resource already exists.
InternalServerError.VpcCommon	VPC error
InvalidParameter	Parameter error.
InvalidParameter.CidrConflictWithOtherRoute	The route to create conflicts with existing routes.
InvalidParameter.CidrConflictWithVpcCidr	The CIDR block conflicts with the VPC's CIDR block.
InvalidParameter.Param	Invalid parameter.
ResourceInUse.ResourceExistAlready	The resource already exists.

EnableVpcCniNetworkType

Last updated : 2023-09-18 16:00:22

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to enable the VPC-CNI network mode for GR clusters.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: EnableVpcCniNetworkType.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
VpcCniType	Yes	String	The VPC-CNI mode. <code>tke-route-eni</code> : Multi-IP ENI, <code>tke-direct-eni</code> : Independent ENI
EnableStaticIp	Yes	Boolean	Whether to enable static IP address
Subnets.N	Yes	Array of String	The container subnet being used

ExpiredSeconds	No	Integer	Specifies when to release the IP after the Pod termination in static IP mode. It must be longer than 300 seconds. If this parameter is left empty, the IP address will never be released.
SkipAddingNonMasqueradeCIDRs	No	Boolean	Whether to skip adding the VPC IP range to <code>NonMasqueradeCIDRs</code> field of <code>ip-masq-agent-config</code> . Default value: <code>false</code>

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling VPC-CNI network mode

This example shows you how to enable VPC-CNI network mode for a TKE cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: EnableVpcCniNetworkType
<Common request parameters>

{
  "ClusterId": "cls-abcdefgh",
  "EnableStaticIp": false,
  "VpcCniType": "tke-route-eni",
  "Subnets": [
    "subnet-abcdefg1",
    "subnet-abcdefg2"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "defc0237-d413-4079-9faa-7f3ff928d224"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.EnableVPCCNIFailed	Failed to enable the VPC-CNI mode.
InternalServerError.UnexpectedInternal	Internal error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.

UnsupportedOperation.ClusterNotSuitEnableVPCCN

The VPC-CNI mode is not supported.

DescribeEnableVpcCniProgress

Last updated : 2023-09-18 16:00:22

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the task progress of enabling VPC-CNI mode.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeEnableVpcCniProgress.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	ID of the cluster for which you want to enable the VPC-CNI mode

3. Output Parameters

Parameter Name	Type	Description
Status	String	Task status, which can be <code>Running</code> , <code>Succeed</code> , or <code>Failed</code> .

ErrorMessage	String	The description for the task status when the task status is “Failed”, for example, failed to install the IPAMD component. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the progress of enabling VPC-CNI network mode (task failed)

When `EnableVpcCniNetworkType` is called, an async task is created. This example shows you how to query the progress of the task, with the result of task failed returned.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeEnableVpcCniProgress
<Common request parameters>

{
  "ClusterId": "cls-abcdefgh"
}
```

Output Example

```
{
  "Response": {
    "Status": "Failed",
    "ErrorMessage": "ipamd has not been installed yet",
    "RequestId": "defc0237-d413-4079-9faa-7f3ff928d224"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.EnableVPCCNIFailed	Failed to enable the VPC-CNI mode.
InternalServerError.UnexpectedInternal	Internal error.
InternalServerError.UnexpectedInternal	Unknown internal error.

AddVpcCniSubnets

Last updated : 2023-09-18 16:00:24

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to add subnets in the container network for a VPC-CNI cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: AddVpcCniSubnets.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
SubnetIds.N	Yes	Array of String	The subnets added for the cluster container network
VpcId	Yes	String	ID of the VPC where the cluster resides
SkipAddingNonMasqueradeCIDRs	No	Boolean	Whether to skip adding the VPC IP range to <code>NonMasqueradeCIDRs</code> field of <code>ip-</code>

			<code>masq-agent-config</code> . Default value: <code>false</code>
--	--	--	---

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding subnets for cluster in VPC-CNI mode

When you create a cluster in VPC-CNI mode, the IP resources of the subnets selected on creation may become insufficient. This example shows how to add subnets in this case.

Input Example

```
https://tke.tencentcloudapi.com/?Action=AddVpcCniSubnets
&VpcId=vpc-xxxx
&ClusterId=cls-xxxx
&SubnetIds.0=subnet-xxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.VpcRecodrNotFound	VPC record not found.
InternalServerError	Internal error.
InternalServerError.Db	DB error.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.KubeCommon	Kubernetes API error.
InternalServerError.Param	Parameter error.
InternalServerError.UnexcepectedInternal	Internal error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InternalServerError.VpcRecodrNotFound	VPC record not found
InvalidParameter.ClusterNotFound	The cluster ID does not exist.
InvalidParameter.Param	Invalid parameter.

DescribeVpcCniPodLimits

Last updated : 2023-09-18 16:00:22

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the maximum number of Pods in the VPC-CNI network mode supported by the models in the specified availability zone of the current user and region.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeVpcCniPodLimits.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
Zone	No	String	The availability zone of the model to query, for example, <code>ap-guangzhou-3</code> . This field is left empty by default, that is, do not filter by the availability zone.
InstanceFamily	No	String	The instance family to query, for example, <code>S5</code> . This field is left empty by default, that is, do not filter by the instance family.
InstanceType	No	String	The instance model to query, for example, <code>S5.LARGE8</code> . This field is empty by default, that is, do not filter by instance type.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of the models Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
PodLimitsInstanceSet	Array of PodLimitsInstance	The model information and the maximum supported number of Pods in the VPC-CNI mode Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the number of Pods in VPC-CNI mode supported by the S5 instance family in Guangzhou Zone 3

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeVpcCniPodLimits
&Zone=ap-guangzhou-3,
&InstanceFamily=S5,
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 4,
    "PodLimitsInstanceSet": [
      {
        "Zone": "ap-guangzhou-3",
        "InstanceFamily": "S5",
        "InstanceType": "S5.SMALL2",
        "PodLimits": {
          "TKERouteENINonStaticIP": 60,
          "TKERouteENIStaticIP": 59,
          "TKEDirectENI": 1
        }
      }
    ]
  }
}
```

```

}
},
{
  "Zone": "ap-guangzhou-3",
  "InstanceFamily": "S5",
  "InstanceType": "S5.SMALL4",
  "PodLimits": {
    "TKERouteENINonStaticIP": 60,
    "TKERouteENISStaticIP": 59,
    "TKEDirectENI": 1
  }
},
{
  "Zone": "ap-guangzhou-3",
  "InstanceFamily": "S5",
  "InstanceType": "S5.MEDIUM4",
  "PodLimits": {
    "TKERouteENINonStaticIP": 60,
    "TKERouteENISStaticIP": 59,
    "TKEDirectENI": 3
  }
},
{
  "Zone": "ap-guangzhou-3",
  "InstanceFamily": "S5",
  "InstanceType": "S5.MEDIUM8",
  "PodLimits": {
    "TKERouteENINonStaticIP": 60,
    "TKERouteENISStaticIP": 59,
    "TKEDirectENI": 3
  }
}
],
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}

```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.CamNoAuth	You do not have permissions.
InternalServerError.Db	DB error.
InternalServerError.Param	Parameter error.
InternalServerError.UnexceptedInternal	Internal error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
MissingParameter	Missing parameter.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

Node APIs

DescribeClusterInstances

Last updated : 2023-09-18 16:00:21

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query information of node instances in a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
Offset	No	Integer	Offset. Default value: 0
Limit	No	Integer	Maximum number of output entries. Default value: 20
InstanceIds.N	No	Array of String	List of instance IDs to be obtained. This parameter is empty by default, which indicates that all instances in the cluster will be pulled.

InstanceRole	No	String	Node role. Valid values are MASTER, WORKER, ETCD, MASTER_ETCD, and ALL. Default value: WORKER.
Filters.N	No	Array of Filter	Filters include <code>nodepool-id</code> and <code>nodepool-instance-type</code> (how the instance is added to the pool). For <code>nodepool-instance-type</code> , the values can be <code>MANUALLY_ADDED</code> , <code>AUTOSCALING_ADDED</code> and <code>ALL</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of instances in the cluster
InstanceSet	Array of Instance	List of instances in the cluster
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the information of instances in a cluster

This example shows you how to query the information of instances in a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterInstances
&ClusterId=cls-7ph3twqe
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceSet": [
      {
        "InstanceAdvancedSettings": {
          "DockerGraphPath": "/data/docker",
```

```
"Labels": [
{
  "Name": "key",
  "Value": "value"
},
{
  "ExtraArgs": {
    "Kubelet": [
      "--register-node=true"
    ]
  },
  "Unschedulable": 0,
  "UserScript": "ZWNobyAiMTAuMTA3LjEwMy41N",
  "MountTarget": "/var/lib/docker",
  "DataDisks": [
    {
      "DiskPartition": "",
      "DiskType": "CLOUD_PREMIUM",
      "DiskSize": 0,
      "FileSystem": "ext4",
      "AutoFormatAndMount": true,
      "MountTarget": "/var/lib/docker"
    }
  ],
  "InstanceId": "ins-wggphft5",
  "InstanceRole": "WORKER",
  "LanIP": "10.0.39.19",
  "DrainStatus": "drained",
  "AutoscalingGroupId": "asg-ewqsfgtr",
  "InstanceState": "running",
  "CreatedTime": "2021-02-22T07:14:11Z",
  "NodePoolId": "np-3j4elm0k",
  "FailedReason": "=Ready:True"
},
{
  "TotalCount": 1,
  "RequestId": "f12a6e20-f950-4af9-8f8b-b6329a4961c2"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.Db	Database error.
InternalError	Internal error.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.InitMasterFailed	Failed to initialize Master.
InternalError.Param	Parameter error.
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.UnexceptedInternal	Internal error.
InvalidParameter.ClusterNotFound	The cluster ID does not exist.
InvalidParameter.Param	Invalid parameter.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

UnsupportedOperation	Unsupported operation.
----------------------	------------------------

DeleteClusterInstances

Last updated : 2023-09-18 16:00:21

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete one or more nodes from a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
InstanceIds.N	Yes	Array of String	List of Instance IDs
InstanceDeleteMode	No	String	Policy used to delete an instance in the cluster: <code>terminate</code> (terminates the instance. Only available for pay-as-you-go CVMs); <code>retain</code> (only removes it from the cluster. The instance will be retained.)
ForceDelete	No	Boolean	Whether or not there is forced deletion (when a node is initialized, the parameters can be specified as TRUE)

3. Output Parameters

Parameter Name	Type	Description
SuccInstanceIds	Array of String	IDs of deleted instances
FailedInstanceIds	Array of String	IDs of instances failed to be deleted
NotFoundInstanceIds	Array of String	IDs of instances that cannot be found
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting instances in a cluster

This example shows you how to delete instances in a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteClusterInstances
&ClusterId=cls-7ph3twqe
&InstanceIds.0=ins-1w67yfyj8
&InstanceDeleteMode=terminate
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "SuccInstanceIds": [
      "ins-1w67yfyj8"
    ],
    "FailedInstanceIds": [
      "ins-1w67yfyj9"
    ],
    "NotFoundInstanceIds": [
```

```
"ins-1w67yfyj0"
],
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.AsCommon	An error occurs while creating scaling group resources.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.DbRecordNotFound	Record not found.
FailedOperation.Param	Invalid parameter.

InternalError	Internal error.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.Param	Parameter error.
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.UnexceptedInternal	Internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.

AddExistedInstances

Last updated : 2023-09-18 16:00:21

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to add one or more existing instances to a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value is AddExistedInstances.
Version	Yes	String	Common Params . The value is 2018-05-25.
Region	No	String	Common Params . This parameter is required for this API.
ClusterId	Yes	String	Cluster ID
InstanceIds.N	Yes	Array of String	Instance list. Spot instance
InstanceAdvancedSettings	No	InstanceAdvancedSettings	Detailed information of the
EnhancedService	No	EnhancedService	Enhanced services. This parameter specifies whether to enable Cloud Monitoring and other

			parameter is not specified, Cloud Security are enabled
LoginSettings	No	LoginSettings	Node login information (using Password or single key)
HostName	No	String	When reinstalling the system, the HostName of the modified cluster is in HostName parameter is required, and same as the Create CVM Instance HostName except for upper and lower case being supported.
SecurityGroupIds.N	No	Array of String	Security group to which the instance belongs. This parameter can be obtained by the <code>sgId</code> field returned by <code>DescribeSecurityGroups</code> . If not specified, the default security group is used. (Currently, you can only specify one security group)
NodePool	No	NodePoolOption	Node pool options
SkipValidateOptions.N	No	Array of String	Skips the specified verification options: GlobalRouteCIDRCheck, \
InstanceAdvancedSettingsOverrides.N	No	Array of InstanceAdvancedSettings	This parameter is used to override the default configuration of an instance. Each element in the array corresponds to the <code>InstanceId</code> in the <code>InstanceIds</code> parameter. If this parameter is not specified, the default parameter <code>InstanceAdvancedSettings</code> is used. If the parameter is overwritten and will not take effect. If the parameter is not passed in, the default parameter <code>InstanceAdvancedSettings</code> will take effect for each instance. The array length of <code>InstanceAdvancedSettingsOverrides</code> should be the same as the <code>InstanceIds</code>. If its array length is less than the <code>InstanceIds</code>, an error will be reported. If its array length is greater than the <code>InstanceIds</code>, an error will be reported.

			instance without correspon will use the default configu
ImageId	No	String	Node image

3. Output Parameters

Parameter Name	Type	Description
FailedInstanceIds	Array of String	IDs of failed nodes Note: This field may return null, indicating that no valid value was found.
SuccInstanceIds	Array of String	IDs of successful nodes Note: This field may return null, indicating that no valid value was found.
TimeoutInstanceIds	Array of String	IDs of (successful or failed) nodes that timed out Note: This field may return null, indicating that no valid value was found.
FailedReasons	Array of String	Causes of the failure to add a node to a cluster Note: this field may return <code>null</code> , indicating that no valid value is obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding existing instances to a cluster

This example shows you how to add existing instances to a cluster.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: AddExistedInstances
<Common request parameters>

{
  "ClusterId": "cls-xxxxxx",
  "InstanceIds": [
    "ins-xxxxx"
```

```
]
}
```

Output Example

```
{
  "Response": {
    "TimeoutInstanceIds": [
      "ins-lqdahrp3"
    ],
    "SuccInstanceIds": [
      "ins-lqdahrp4"
    ],
    "FailedInstanceIds": [
      "ins-lqdahrp5"
    ],
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397",
    "FailedReasons": [
      "InstanceId ins-lqdahrp5 ServiceResetCvmV3 failed ..."
    ]
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.CvmCommon	Failed to create the node due to a CVM error
FailedOperation.NetworkScaleError	Network extension error.
FailedOperation.NodeExistsSecondaryNetworkInterface	The node has a secondary ENI.
FailedOperation.Param	Invalid parameter.
FailedOperation.QuotaMaxNodLimit	Reached the quota limit.
InternalError	Internal error.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.CvmCommon	Error in node creation.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.Param	Parameter error.
InternalError.QuotaMaxNodLimit	Quota limit exceeded.
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.

DescribeExistedInstances

Last updated : 2023-09-18 16:00:21

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query one or more existing node and determine whether they can be added to a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeExistedInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	No	String	Cluster ID. Enter the <code>ClusterId</code> field returned when you call the DescribeClusters API (Only VPC ID obtained through <code>ClusterId</code> need filtering conditions. When comparing statuses, the nodes on all clusters in this region will be used for comparison. You cannot specify <code>InstanceIds</code> and <code>ClusterId</code> at the same time.)
InstanceIds.N	No	Array of String	Query by one or more instance ID(s). Instance ID format: ins-xxxxxxx. (Refer to section ID.N of the API overview for this parameter's specific format.) Up to 100 instances are allowed

			for each request. You cannot specify InstanceIds and Filters at the same time.
Filters.N	No	Array of Filter	Filter condition. For fields and other information, see the DescribeInstances API . If a ClusterId has been set, then the cluster's VPC ID will be attached as a query field. In this situation, if a "vpc-id" is specified in Filter, then the specified VPC ID must be consistent with the cluster's VPC ID.
VagueIpAddress	No	String	Filter by instance IP (Supports both private and public IPs)
VagueInstanceName	No	String	Filter by instance name
Offset	No	Integer	Offset. Default value: 0. For more information on Offset, see the relevant section in the API Introduction .
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100. For more information on Limit, see the relevant section in the API Introduction .
IpAddresses.N	No	Array of String	Filter by multiple instance IPs

3. Output Parameters

Parameter Name	Type	Description
ExistedInstanceSet	Array of ExistedInstance	Array of existing instance information. Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Number of instances that match the filter condition(s).
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of existing nodes

This example shows you how to query whether the specified existing nodes can be added to a cluster.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeExistedInstances
&ClusterId=cls-xxxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ExistedInstanceSet": [
      {
        "Usable": true,
        "UnusableReason": "",
        "AlreadyInCluster": "",
        "InstanceId": "ins-xxxxxxx",
        "InstanceName": "Not named",
        "PrivateIpAddresses": [
          "192.168.x.x"
        ],
        "PublicIpAddresses": [
          "118.24.x.x"
        ],
        "CreatedTime": "2019-05-13T03:37:24Z",
        "CPU": 2,
        "Memory": 4,
        "OsName": "Ubuntu xxxxxxxx",
        "InstanceType": "Sxxxxxx"
      }
    ],
    "RequestId": "f12a6e20-f950-4af9-8f8b-b6329a4961c2"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.AsCommon	An error occurs while creating scaling group resources.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.CvmCommon	Failed to create the node due to a CVM error
FailedOperation.Db	Database error.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.CreateMasterFailed	Failed to create cluster.
InternalError.CvmCommon	Error in node creation.

InternalError.CvmNotFound	CVM does not exist.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.ImageIdNotFound	Image not found.
InternalError.InitMasterFailed	Failed to initialize Master.
InternalError.InvalidPrivateNetworkCidr	Invalid CIDR.
InternalError.OsNotSupport	Image OS not supported.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InternalError.VpcCommon	VPC error
InternalError.VpcRecodrNotFound	VPC record not found
InvalidParameter	Parameter error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

CreateClusterInstances

Last updated : 2023-09-18 16:00:21

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create one or more nodes in a cluster.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusterInstances.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID. Enter the ClusterId field returned by the DescribeClusters API
RunInstancePara	Yes	String	Pass-through parameter for CVM creation in the format of a JSON string. To ensure the idempotence of requests for adding cluster nodes, you need to add the

			ClientToken field in this parameter. For more information, see the documentation for RunInstances API.
InstanceAdvancedSettings	No	InstanceAdvancedSettings	Additional parameter to be set for the instance
SkipValidateOptions.N	No	Array of String	Skips the specified verification. Valid values: GlobalRouteCIDRCheck, VpcCniCIDRCheck

3. Output Parameters

Parameter Name	Type	Description
InstanceIdSet	Array of String	Instance ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding nodes to a cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=CreateClusterInstances
&ClusterId=cls-xxxxxxx
&RunInstancePara={"Placement":{"Zone":"ap-guangzhou-4"},"InstanceType":"S3.SMALL
1"}
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceIdSet": [
```



```
"ins-xxxxxxx"
],
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

Example2 Adding cluster nodes (multiple data disks)

This example shows you how to add a node with multiple data disks to a cluster.

1. Set `DataDisks` in `InstanceAdvancedSettings` to set the mounting information for multiple data disks.
The backend will match data disks with data disk IDs based on their types and sizes and mount them to the corresponding paths.
2. Set `DataDisks` in `RunInstancePara`. This parameter will be passed through to the CVM to indicate the purchase of multiple data disks.
3. `MountTarget` in `InstanceAdvancedSettings` is disused.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateClusterInstances
<Common request parameters>

{
  "InstanceAdvancedSettings": {
    "DataDisks": [
      {
        "AutoFormatAndMount": true,
        "DiskSize": 50,
        "DiskType": "CLOUD_PREMIUM",
        "FileSystem": "ext4",
        "MountTarget": "/data2"
      },
      {
        "AutoFormatAndMount": true,
        "DiskSize": 120,
        "DiskType": "CLOUD_PREMIUM",
        "FileSystem": "ext4",
        "MountTarget": "/data4"
      },
      {
        "AutoFormatAndMount": true,
        "DiskSize": 100,
```

```
"DiskType": "CLOUD_PREMIUM",
"FileSystem": "ext4",
"MountTarget": "/data3"
},
{
  "AutoFormatAndMount": true,
  "DiskSize": 50,
  "DiskType": "CLOUD_PREMIUM",
  "FileSystem": "ext4",
  "MountTarget": "/data5"
},
{
  "DockerGraphPath": "/var/lib/docker",
  "MountTarget": "/var/lib/docker",
  "Unschedulable": 0,
  "UserScript": ""
},
{
  "SkipValidateOptions": [
    "GlobalRouteCIDRCheck",
    "VpcCniCIDRCheck"
  ],
  "RunInstancePara": "xx",
  "ClusterId": "cls-xxxxx"
}
```

Output Example

```
{
  "Response": {
    "InstanceIdSet": [
      "ins-xxxxxxxx"
    ],
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.AccountCommon	Failed to obtain user authentication information.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.CvmCommon	Failed to create the node due to a CVM error
FailedOperation.Db	Database error.
FailedOperation.NetworkScaleError	Network extension error.
FailedOperation.Param	Invalid parameter.
FailedOperation.QuotaMaxNodLimit	Reached the quota limit.
InternalError	Internal error.
InternalError.AccountCommon	Failed to obtain the user authentication information
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.

InternalError.ComponentClnetHttp	Error while requesting (HTTP) other Tencent Cloud services
InternalError.CvmCommon	Error in node creation.
InternalError.CvmNotFound	CVM does not exist.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.ImageIdNotFound	Image not found.
InternalError.OsNotSupport	Image OS not supported.
InternalError.Param	Parameter error.
InternalError.QuotaMaxCIsLimit	Quota limit exceeded.
InternalError.QuotaMaxNodLimit	Quota limit exceeded.
InternalError.QuotaMaxRtLimit	Quota limit exceeded.
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.VpcCommon	VPC error
InternalError.VpcPeerNotFound	Peering connection does not exist
InternalError.VpcRecodrNotFound	VPC record not found
InvalidParameter	Parameter error.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceInsufficient.SpecifiedInstanceType	Insufficient CVM resources.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

UnsupportedOperation

Unsupported operation.

CheckInstancesUpgradeAble

Last updated : 2023-09-18 16:00:21

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query nodes eligible for an upgrade in the given node list.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CheckInstancesUpgradeAble.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
InstanceIds.N	No	Array of String	Specify the node list to check. If it's not passed in, all nodes of the cluster will be checked.
UpgradeType	No	String	Upgrade type
Offset	No	Integer	Pagination offset
Limit	No	Integer	Pagination limit

Filter.N	No	Array of Filter	Filtering
----------	----	------------------------------------	-----------

3. Output Parameters

Parameter Name	Type	Description
ClusterVersion	String	The current minor version of cluster Master
LatestVersion	String	The latest minor version of cluster Master corresponding major version
UpgradeAbleInstances	Array of UpgradeAbleInstancesItem	List of nodes that can be upgraded Note: this field may return <code>null</code> , indicating that no valid value is obtained.
Total	Integer	Total number Note: this field may return <code>null</code> , indicating that no valid value is obtained.
UnavailableVersionReason	Array of UnavailableReason	Reason why the upgrade is not available Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Checking whether the node can be upgraded

This example shows you how to check whether the node can be upgraded.

Input Example

```
https://tke.tencentcloudapi.com/?Action=CheckInstancesUpgradeAble
&ClusterId=cls-7ph3twqe
&InstanceIds.0=ins-q40fqbs0
&InstanceIds.1=ins-hvldgo6w
&InstanceIds.2=ins-hrtaxazg
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ClusterVersion": "1.22.5",
    "LatestVersion": "1.22.5",
    "Total": 3,
    "RequestId": "123",
    "UnavailableVersionReason": {
      "InstanceId": "ins-mq0fqbs0",
      "Reason": "instance already the master latest version"
    },
    "UpgradeAbleInstances": [
      {
        "InstanceId": "ins-q40fqbs0",
        "LatestVersion": "1.22.5",
        "Version": "1.20.6"
      },
      {
        "InstanceId": "ins-hvldgo6w",
        "LatestVersion": "1.22.5",
        "Version": "1.20.6"
      },
      {
        "InstanceId": "ins-hrtaxazg",
        "LatestVersion": "1.22.5",
        "Version": "1.20.6"
      }
    ]
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.KubeClientConnection	Failed to connect to the customer Kubernetes cluster.
FailedOperation.KubeCommon	Kubernetes API error.
FailedOperation.PolicyServerCommonError	GPE error.
InternalError	Internal error.
InternalError.Db	DB error.
InternalError.KubeClientConnection	Failed to connect to the user's Kubernetes cluster.
InternalError.KubeCommon	Kubernetes API error.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.

Cloud Native Monitoring APIs

ModifyPrometheusAlertRule

Last updated : 2023-09-18 16:00:31

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to modify an alert rule.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyPrometheusAlertRule.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
AlertRule	Yes	PrometheusAlertRuleDetail	Alarm configurations

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying an alarm rule

This example shows you how to modify an alert rule.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyPrometheusAlertRule
<Common request parameters>

{
  "InstanceId": "prom-sdgfsdhg",
  "AlertRule": {
    "TemplateId": "",
    "Name": "test",
    "Rules": [
      {
        "Describe": "Pod is in NotReady status for more than 15 minutes",
        "Name": "KubePodNotReady",
        "For": "15m",
        "Labels": [
          {
            "Name": "severity",
            "Value": "warning"
          }
        ],
        "Rule": "sum by (cluster,namespace, pod) (\n max by(cluster,namespace, pod) (\n kube_pod_status_phase{job=\"kube-state-metrics\", phase=~\"Pending|Unknown\"}\n )\n * on(cluster,namespace, pod) group_left(owner_kind) topk by(cluster,namespace, pod) (\n 1, max by(cluster,namespace, pod, owner_kind) (kube_pod_owner{owner_kind!= \"Job\"})\n )\n ) > 0\n",
        "Template": ""
      }
    ]
  }
}
```

```
"Annotations": [
{
  "Name": "content",
  "Value": "pod not ready"
}
],
"Notification": {
  "RepeatInterval": "5h",
  "TimeRangeStart": "00:00:00",
  "Enabled": true,
  "PhoneNotifyOrder": [
    1
  ],
  "PhoneInnerInterval": 180,
  "PhoneCircleInterval": 180,
  "NotifyWay": [
    "CALL"
  ],
  "ReceiverGroups": [
    1
  ],
  "PhoneArriveNotice": true,
  "PhoneCircleTimes": 3,
  "Type": "amp",
  "TimeRangeEnd": "23:59:59"
},
  "Id": "alert-dsdafg"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.KubeCommon	Kubernetes API error.
InternalError	Internal error.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.PromInstanceNotFound	The PROM instance does not exist.

DescribePrometheusInstance

Last updated : 2023-09-18 16:00:31

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain the instance details.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribePrometheusInstance.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID

Name	String	Instance name
VpcId	String	VPC ID
SubnetId	String	Subnet ID
COSBucket	String	COS bucket name
QueryAddress	String	Data query address
Grafana	PrometheusGrafanaInfo	The grafana related information in the instance Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
AlertManagerUrl	String	Custom alertmanager Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the details of the managed PROM instance

This example shows you how to query the details of the managed PROM instance.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribePrometheusInstance
&InstanceId=prom-abc
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "QueryAddress": "http://10.0.0.1:9090",
    "VpcId": "vpc-abcdfgfg",
    "Name": "tps-test",
    "InstanceId": "prom-abcdefg",
    "COSBucket": "prometheus-prom-abcdefg-data-1234567895",
    "AlertManagerUrl": "",
    "Grafana": {
      "Domain": "",
```

```
"Internet": "close",
"Enabled": true,
"AdminUser": "admin",
"Address": "http://10.0.0.2"
},
"RequestId": "55054791-f4ff-4c33-afd2-dsahdjahdahada",
"SubnetId": "subnet-dsadsada"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.ComponentClientUnpack	Internal HTTP decapsulation failed.
FailedOperation.KubeCommon	Kubernetes API error.

InternalError	Internal error.
InternalError.Db	DB error.
InternalError.DbRecordNotFound	Record not found.
InternalError.Param	Parameter error.
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter	Parameter error.
InvalidParameter.ClusterNotFound	The cluster ID does not exist.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.PromInstanceNotFound	The PROM instance does not exist.

DeletePrometheusAlertRule

Last updated : 2023-09-18 16:00:31

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete an alarm rule.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeletePrometheusAlertRule.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
AlertIds.N	Yes	Array of String	The ID list of alarm rules

3. Output Parameters

Parameter	Type	Description
-----------	------	-------------

Name		
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting the PROM instance alarm rule

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeletePrometheusAlertRule
&InstanceId=prom-xxx
&AlertIds.0=a1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
InternalServerError	Internal error.
InternalServerError.Param	Parameter error.
InvalidParameter	Parameter error.
InvalidParameter.PromInstanceNotFound	The PROM instance does not exist.

CreatePrometheusAlertRule

Last updated : 2023-09-18 16:00:32

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create an alarm rule.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreatePrometheusAlertRule.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
AlertRule	Yes	PrometheusAlertRuleDetail	Alarm configurations

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Id	String	Alarm ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating an alert rule

This example shows you how to create an alert rule by using a template.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreatePrometheusAlertRule
<Common request parameters>

{
  "InstanceId": "prom-test",
  "AlertRule": {
    "TemplateId": "temp-test",
    "Name": "test",
    "Rules": [
      {
        "Describe": "Pod is in NotReady status for more than 15 minutes",
        "Name": "KubePodNotReady",
        "For": "",
        "Labels": [
          {
            "Name": "severity",
            "Value": "warning"
          }
        ],
        "Rule": "sum by (cluster,namespace, pod) (\n max by(cluster,namespace, pod) (\n kube_pod_status_phase{job=\"kube-state-metrics\", phase=~\"Pending|Unknown\"}\n )\n * on(cluster,namespace, pod) group_left(owner_kind) topk by(cluster,namespace, pod) (\n 1, max by(cluster,namespace, pod, owner_kind) (kube_pod_owner{owner_kind!= \"Job\"})\n )\n ) > 0\n",
        "Template": "cluster {{ $labels.cluster }}/namespace {{ $labels.namespace }}/Pod {{ $labels.pod }} is in NotReady status for more than 15 minutes",
```

```
"Annotations": [
{
  "Name": "content",
  "Value": "pod crash"
}
],
"Notification": {
  "RepeatInterval": "5h",
  "TimeRangeStart": "00:00:00",
  "Enabled": true,
  "PhoneNotifyOrder": [
    1
  ],
  "PhoneInnerInterval": 0,
  "PhoneCircleInterval": 0,
  "NotifyWay": [
    "SMS"
  ],
  "ReceiverGroups": [
    1
  ],
  "PhoneArriveNotice": true,
  "PhoneCircleTimes": 0,
  "Type": "amp",
  "TimeRangeEnd": "23:59:59"
}
}
```

Output Example

```
{
  "Response": {
    "Id": "alert-123",
    "RequestId": "85438a95-6e0d-422e-a099-123456789"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InternalServerError.Param	Parameter error.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.PromInstanceNotFound	The PROM instance does not exist.
ResourceNotFound	The resource does not exist.

Virtual node APIs

ModifyClusterVirtualNodePool

Last updated : 2023-09-18 16:00:11

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to modify a virtual node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterVirtualNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool ID
Name	No	String	Node pool name
SecurityGroupIds.N	No	Array of String	List of security group IDs

Labels.N	No	Array of Label	Virtual node labels
Taints.N	No	Array of Taint	Virtual node taint
DeletionProtection	No	Boolean	Setting of deletion protection

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying a virtual node pool

This example shows you how to modify a virtual node pool.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyClusterVirtualNodePool
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "NodePoolId": "np-abcd1234",
  "Name": "virtual-node-prod"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9"
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.RecordNotFound	Record not found.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.NodePoolStateNotNormal	The node pool is in an abnormal status.

DrainClusterVirtualNode

Last updated : 2023-09-18 16:00:11

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to drain a virtual node.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DrainClusterVirtualNode.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodeName	Yes	String	Node name

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Draining a virtual node

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DrainClusterVirtualNode
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "NodeName": "eklet-subnet-abcd1234-0"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)

- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceNotFound	The resource does not exist.

DescribeClusterVirtualNodePools

Last updated : 2023-09-18 16:00:11

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the list of virtual node pools.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterVirtualNodePools.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of node pools

		Note: This field may return null, indicating that no valid values can be obtained.
NodePoolSet	Array of VirtualNodePool	List of virtual node pools Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of virtual node pools

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterVirtualNodePools
<Common request parameters>

{
  "ClusterId": "cls-abcd1234"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9",
    "NodePoolSet": [
      {
        "NodePoolId": "np-abcd1234",
        "SubnetIds": [
          "subnet-abcd1234"
        ],
        "Name": "virtual-nodepool",
        "LifeState": "normal"
      }
    ],
    "TotalCount": 1
  }
}
```


5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnexpectedInternal	Unknown internal error.
ResourceNotFound	The resource does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.

DescribeClusterVirtualNode

Last updated : 2023-09-18 16:00:11

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query the list of virtual nodes.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterVirtualNode.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	No	String	Node pool ID
NodeNames.N	No	Array of String	Node name

3. Output Parameters

Parameter Name	Type	Description
Nodes	Array of VirtualNode	List of nodes Note: This field may return null, indicating that no valid values can be obtained.
TotalCount	Integer	Total number of nodes Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of virtual nodes

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeClusterVirtualNode
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "NodePoolId": "np-abcd1234"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9",
    "TotalCount": 1,
    "Nodes": [
      {
        "Name": "eklet-subnet-abcd1234-0",
        "SubnetId": "subnet-abcd1234",
        "Phase": "Running"
      }
    ]
  }
}
```

```
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.KubernetesListOperationError	Failed to obtain the kubernetes resource list.
InternalServerError.KubernetesListOperationError	Failed to obtain the kubernetes resource list.
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.

DeleteClusterVirtualNodePool

Last updated : 2023-09-18 16:00:11

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a virtual node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterVirtualNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolIds.N	Yes	Array of String	List of virtual node pool IDs
Force	No	Boolean	Whether to forcibly delete the nodes with pods. Values: <code>true</code> , <code>false</code> .

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a virtual node pool

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteClusterVirtualNodePool
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "NodePoolIds": [
    "np-abcd1234"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.RecordNotFound	Record not found.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.UnexpectedInternal	Unknown internal error.
ResourceInUse.ExistRunningPod	A running Pod exists.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

DeleteClusterVirtualNode

Last updated : 2023-09-18 16:00:12

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to delete a virtual node.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterVirtualNode.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodeNames.N	Yes	Array of String	List of virtual nodes
Force	No	Boolean	Whether to forcibly delete running pods in the virtual node. Values: <code>true</code> , <code>false</code> .

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a virtual node

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteClusterVirtualNode
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "NodeNames": [
    "eklet-subnet-abcd1234-0"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
ResourceInUse.ExistRunningPod	A running Pod exists.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.

CreateClusterVirtualNodePool

Last updated : 2023-09-18 16:00:12

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a virtual node pool.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusterVirtualNodePool.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
Name	Yes	String	Node pool name
SubnetIds.N	No	Array of String	List of subnet IDs
SecurityGroupIds.N	No	Array of String	List of security group IDs
Labels.N	No	Array of Label	Virtual node labels

Taints.N	No	Array of Taint	Virtual node taint
VirtualNodes.N	No	Array of VirtualNodeSpec	List of nodes
DeletionProtection	No	Boolean	Setting of deletion protection
OS	No	String	Node pool OS: - <code>linux</code> (default value) - <code>windows</code>

3. Output Parameters

Parameter Name	Type	Description
NodePoolId	String	Node pool ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a virtual node pool

This example shows you how to create a virtual node pool.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateClusterVirtualNodePool
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "Name": "vk-nodepool1",
  "SubnetIds": [
    "subnet-abcd1234"
  ],
  "SecurityGroupIds": [
    "sg-abcd1234"
```

```
]
}
```

Output Example

```
{
  "Response": {
    "NodePoolId": "np-abcd1234",
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.

InvalidParameter.SubnetInvalidError	Invalid subnet.
InvalidParameter.SubnetNotExist	The subnet does not exist.
ResourceInUse.SubnetAlreadyExist	The subnet already exists.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.
UnsupportedOperation.NotSupportInstallVirtualKubelet	Virtual nodes cannot be installed.

CreateClusterVirtualNode

Last updated : 2023-09-18 16:00:12

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to create a virtual node.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateClusterVirtualNode.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
NodePoolId	Yes	String	Node pool
SubnetId	No	String	Subnet
SubnetIds.N	No	Array of String	List of subnet IDs (this parameter and <code>SubnetId</code> are mutually exclusive)

VirtualNodes.N	No	Array of VirtualNodeSpec	List of virtual nodes
----------------	----	--	-----------------------

3. Output Parameters

Parameter Name	Type	Description
NodeName	String	Virtual node name
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a virtual node

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateClusterVirtualNode
<Common request parameters>

{
  "ClusterId": "cls-abcd1234",
  "NodePoolId": "np-abcd1234",
  "SubnetId": "subnet-abcd1234"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1ac0d3ae-063e-4789-93fe-3c73e93191b9",
    "NodeName": "eklet-subnet-1234-0"
  }
}
```


5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError.UnexpectedInternal	Unknown internal error.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.SubnetInvalidError	Invalid subnet.
ResourceInUse.SubnetAlreadyExist	The subnet already exists.
ResourceUnavailable.NodePoolStateNotNormal	The node pool is in an abnormal status.
UnsupportedOperation.NotInWhitelist	The user is not in the allowlist.
UnsupportedOperation.NotSupportInstallVirtualKubelet	Virtual nodes cannot be installed.

Other APIs

DescribeRegions

Last updated : 2023-09-18 16:00:18

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to obtain all regions supported by TKE.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeRegions.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of regions Note: this field may return null, indicating that no valid values can be obtained.

RegionInstanceSet	Array of RegionInstance	## Region List Note: this field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the region list

This example shows you how to obtain the region list.

Input Example

```
POST / HTTP/1.1
Host: tke.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeRegions
<Common request parameters>

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RegionInstanceSet": [
      {
        "RegionName": "ap-guangzhou",
        "RegionId": 1,
        "Status": "",
        "FeatureGates": "",
        "Alias": "gz",
        "Remark": ""
      }
    ],
    "RequestId": "d367ff5c-3871-4f1b-b8f1-4d51ea689e29"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ComponentClientHttp	Internal HTTP client error.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.CamNoAuth	You do not have permissions.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.UnexceptedInternal	Internal error.

InternalError.UnexpectedInternal	Unknown internal error.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeImages

Last updated : 2023-09-18 16:00:18

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to get image information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeImages.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of images Note: this field may return null, indicating that no valid values can be obtained.
ImageInstanceSet	Array of ImageInstance	Image information list Note: this field may return null, indicating that no valid values can be

		obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining image information

This example shows you how to obtain image information.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeImages
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ImageInstanceSet": [
      {
        "Alias": "Tencent Linux 2.2 64bit (tkernel3)",
        "OsCustomizeType": "GENERAL",
        "OsName": "tlinux2.2(tkernel3)x86_64",
        "ImageId": "img-2lr9q49h"
      }
    ],
    "RequestId": "eac6b301-a322-493a-8e36-83b295459398"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
InternalServerError	Internal error.
InternalServerError.CamNoAuth	You do not have permissions.
InternalServerError.ComponentClnetHttp	Error while requesting (HTTP) other Tencent Cloud services
InternalServerError.Db	DB error.
InternalServerError.DbAffectedRows	Database error.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.ImageIdNotFound	Image not found.
InternalServerError.UnexceptedInternal	Internal error.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.RouteTableNotEmpty	Route table is not empty.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeVersions

Last updated : 2023-09-18 16:00:18

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

This API is used to query cluster version information.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeVersions.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of versions Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
VersionInstanceSet	Array of VersionInstance	Version list Note: this field may return <code>null</code> , indicating that no valid values

		can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying cluster version information

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeVersions
&<common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "VersionInstanceSet": [
      {
        "Name": "k8s",
        "Version": "1.18.4",
        "Remark": ""
      }
    ],
    "RequestId": "6a2fe3a8-0914-475f-980b-b4a143c3fbc9"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.ComponentClnetHttp	Failed to request (HTTP request) other Tencent Cloud services.
InternalServerError	Internal error.
InternalServerError.CamNoAuth	You do not have permissions.
InternalServerError.ComponentClnetHttp	Error while requesting (HTTP) other Tencent Cloud services
InternalServerError.Db	DB error.
InternalServerError.DbAffectedRows	Database error.
InternalServerError.DbRecordNotFound	Record not found.
InternalServerError.Param	Parameter error.
InternalServerError.UnexceptedInternal	Internal error.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.RouteTableNotEmpty	Route table is not empty.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.

ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

Scaling group APIs

DeleteClusterAsGroups

Last updated : 2023-09-18 16:00:18

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Delete a cluster scaling group

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteClusterAsGroups.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	The cluster ID, obtained through the DescribeClusters API.
AutoScalingGroupIds.N	Yes	Array of String	Cluster scaling group ID list
KeepInstance	No	Boolean	Whether to keep nodes in the scaling group. Default to false (not keep)

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting a cluster scaling group

This example shows you how to delete a cluster scaling group.

Input Example

```
https://tke.tencentcloudapi.com/?Action=DeleteClusterAsGroups
&ClusterId=cls-xxxxxx
&AutoScalingGroupIds.0=asg-xxxxxxx
&KeepInstance=false
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "eac6b301-a322-493a-8e36-83b295459397"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.ClusterNotFound	Cluster not found.
InternalError.Param	Parameter error.
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.QuotaMaxCIsLimit	Quota limit exceeded.
InternalError.QuotaMaxNodLimit	Quota limit exceeded.
InternalError.QuotaMaxRtLimit	Quota limit exceeded.
InvalidParameter	Parameter error.

InvalidParameter.AsCommonError	Auto scaling group creation parameter error.
InvalidParameter.Param	Invalid parameter.
LimitExceeded	Quota limit is exceeded.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist.
UnknownParameter	Unknown parameter.

ModifyClusterAsGroupAttribute

Last updated : 2023-09-18 16:00:17

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Modify cluster scaling group attributes

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyClusterAsGroupAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
ClusterAsGroupAttribute	No	ClusterAsGroupAttribute	Cluster-associated scaling group attributes

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Modifying the scaling group configuration of the cluster

Input Example

```
https://tke.tencentcloudapi.com/?Action=ModifyClusterAsGroupAttribute
&ClusterId=cls-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "82f2fe9c-c5fa-4077-9236-f1341180a696"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Go](#)
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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.CamNoAuth	You do not have permissions.
InternalError.Param	Parameter error.
InternalError.UnexceptedInternal	Internal error.
InvalidParameter	Parameter error.
InvalidParameter.AsCommonError	Auto scaling group creation parameter error.
InvalidParameter.CidrOutOfRouteTable	The CIDR block is not in the route table.
InvalidParameter.GatewayAlreadyAssociatedCidr	Next hop address is already associated with a CIDR block.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.RouteTableNotEmpty	Route table is not empty.
LimitExceeded	Quota limit is exceeded.
MissingParameter	Missing parameter.
ResourceInUse	The resource is occupied.

ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.

DescribeClusterAsGroups

Last updated : 2023-09-18 16:00:17

1. API Description

Domain name for API request: tke.tencentcloudapi.com.

Cluster-associated scaling group list

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeClusterAsGroups.
Version	Yes	String	Common Params . The value used for this API: 2018-05-25.
Region	No	String	Common Params . This parameter is not required for this API.
ClusterId	Yes	String	Cluster ID
AutoScalingGroupIds.N	No	Array of String	Scaling group ID list. If this value is null, it indicates that all cluster-associated scaling groups are pulled.
Offset	No	Integer	Offset. This value defaults to 0. For more information on Offset, see the relevant sections in API Overview .
Limit	No	Integer	Number of returned results. This value defaults to 20. The maximum is 100. For more information on Limit, see the

relevant sections in API [Overview](#).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of scaling groups associated with the cluster
ClusterAsGroupSet	Array of ClusterAsGroup	Cluster-associated scaling group list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of cluster-associated scaling groups

Input Example

```
https://tke.tencentcloudapi.com/?Action=DescribeClusterAsGroups
&ClusterId=cls-xxxxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ClusterAsGroupSet": [
      {
        "AutoScalingGroupId": "xx",
        "Status": "xx",
        "IsUnschedulable": true,
        "Labels": [
          {
            "Name": "xx",
            "Value": "xx"
          }
        ],
        "CreatedTime": "xx"
      }
    ]
  }
}
```

```
}  
],  
"RequestId": "82f2fe9c-c5fa-4077-9236-f1341180a696"  
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.Param	Invalid parameter.
InternalError	Internal error.

InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.ClusterNotFound	Cluster not found.
InternalError.ClusterState	Cluster status error.
InternalError.Db	DB error.
InternalError.Param	Parameter error.
InternalError.PodNotFound	Pod not found
InternalError.UnexceptedInternal	Internal error.
InternalError.VpcCommon	VPC error
InternalError.VpcPeerNotFound	Peering connection does not exist
InternalError.VpcRecodrNotFound	VPC record not found

Data Types

Last updated : 2024-07-19 16:17:27

Addon

Add-on description

Used by actions: DescribeAddon.

Name	Type	Description
AddonName	String	Add-on name
AddonVersion	String	Add-on version
RawValues	String	Add-on parameters, which are base64-encoded strings in JSON/ Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Phase	String	Add-on status Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Reason	String	Reason for add-on failure Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

AutoScalingGroupRange

Maximum and minimum number of pods in cluster-associated scaling groups

Used by actions: ModifyClusterAsGroupAttribute.

Name	Type	Required	Description
MinSize	Integer	No	Minimum number of pods in a scaling group
MaxSize	Integer	No	Maximum number of pods in a scaling group

AutoUpgradeClusterLevel

Auto-upgrades cluster specification

Used by actions: CreateCluster, ModifyClusterAttribute.

Name	Type	Required	Description
IsAutoUpgrade	Boolean	Yes	Whether to enable Auto Cluster Upgrade

AutoscalingAdded

Nodes that are added in scale-out

Used by actions: DescribeClusterNodePoolDetail, DescribeClusterNodePools.

Name	Type	Description
Joining	Integer	Number of nodes that are being added
Initializing	Integer	Number of nodes that are being initialized
Normal	Integer	Number of normal nodes
Total	Integer	Total number of nodes

BackupStorageLocation

Storage repository information

Used by actions: DescribeBackupStorageLocations.

Name	Type	Description
Name	String	Backup repository name
StorageRegion	String	Repository region, such as <code>ap-guangzhou</code>
Provider	String	The provider of storage service. It defaults to Tencent Cloud. Note: This parameter may return null, indicating that no valid values can be obtained.
Bucket	String	COS bucket name. For COS storage type, it must start with the prefix <code>tke-backup</code> . Note: This field may return null, indicating that no valid values can be obtained.
Path	String	COS bucket path Note: This field may return null, indicating that no valid values can be obtained.

State	String	Storage repository status Note: This field may return null, indicating that no valid values can be obtained.
Message	String	Status information Note: This field may return null, indicating that no valid values can be obtained.
LastValidationTime	String	Last checked time Note: This parameter may return null, indicating that no valid values can be obtained.

CUDNN

cuDNN version information

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, ModifyClusterNodePool, UpgradeClusterInstances.

Name	Type	Required	Description
Version	String	Yes	cuDNN version
Name	String	Yes	cuDNN name
DocName	String	No	Doc name of cuDNN
DevName	String	No	Dev name of cuDNN

Cluster

Cluster information struct

Used by actions: DescribeClusters.

Name	Type	Description
ClusterId	String	Cluster ID
ClusterName	String	Cluster name
ClusterDescription	String	Cluster description
ClusterVersion	String	Cluster version. The default value is 1.10.5.

ClusterOs	String	Cluster operating system. CentOS 7.2x86_64 or Ubuntu 16.04.1 LTSx86_64. Default value: Ubuntu 16.04.1 LTSx86_64
ClusterType	String	Cluster type. Managed cluster: MANAGED_CLUSTER; Self-deployed cluster: INDEPENDENT_CLUSTER.
ClusterNetworkSettings	ClusterNetworkSettings	Cluster network-related parameters
ClusterNodeNum	Integer	Current number of nodes in the cluster
ProjectId	Integer	ID of the project to which the cluster belongs
TagSpecification	Array of TagSpecification	Tag description list.
ClusterStatus	String	Cluster status. Values: <code>Trading</code> (Preparing), <code>Creating</code> , <code>Running</code> , <code>Deleting</code> , <code>Idling</code> (Idle), <code>Recovering</code> , <code>Scaling</code> , <code>Upgrading</code> (Upgrading the cluster), <code>WaitingForConnect</code> (Pending registration), <code>Pause</code> (Cluster upgrade paused), <code>NodeUpgrading</code> (Upgrading the node), <code>RuntimeUpgrading</code> (Upgrading the node runtime), <code>MasterScaling</code> (Scaling Master), <code>ClusterLevelUpgrading</code> (Adjusting cluster specification level), <code>ResourceIsolate</code> (Isolating), <code>ResourceIsolated</code> (Isolated), <code>ResourceReverse</code> (Overdue payment made. Recovering the cluster), and <code>Abnormal</code> .
Property	String	Cluster attributes (including a map of different cluster attributes, with attribute fields including <code>NodeNameType</code> (lan-ip mode and hostname mode, with lan-ip mode as default))
ClusterMasterNodeNum	Integer	Number of primary nodes currently in the cluster
ImageId	String	ID of the image used by the cluster Note: this field may return null, indicating that no valid value is obtained.
OsCustomizeType	String	Container image tag Note: This field may return null, indicating that no valid value was found.

ContainerRuntime	String	Runtime environment of the cluster. Values can be <code>docker</code> or <code>containerd</code> . Note: this field may return null, indicating that no valid value is obtained.
CreatedTime	String	Creation time Note: this field may return null, indicating that no valid value is obtained.
DeletionProtection	Boolean	Whether Deletion Protection is enabled Note: this field may return null, indicating that no valid value is obtained.
EnableExternalNode	Boolean	Specifies whether the cluster supports external nodes. Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
ClusterLevel	String	Cluster models. It's valid for managed clusters. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
AutoUpgradeClusterLevel	Boolean	The target cluster model for auto-upgrade Note: this field may return null, indicating that no valid value is obtained.
QGPUShareEnable	Boolean	Whether to enable qGPU Sharing Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
RuntimeVersion	String	Runtime version Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ClusterEtcdNodeNum	Integer	Number of current etcd in the cluster Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

ClusterAdvancedSettings

Cluster advanced configurations

Used by actions: CreateCluster.

Name	Type	Required	Description

IPVS	Boolean	No	Whether IPVS is enabled
AsEnabled	Boolean	No	Whether auto-scaling is enabled for nodes in the cluster (Enabling this function is not supported when you create a cluster)
ContainerRuntime	String	No	Type of runtime component used by the cluster. The types include "docker" and "containerd". Default value: docker
NodeNameType	String	No	NodeName type for a node in a cluster (This includes the two forms of hostname and lan-ip , with the default as lan-ip . If hostname is used, you need to set the HostName parameter when creating a node, and the InstanceName needs to be the same as the HostName.)
ExtraArgs	ClusterExtraArgs	No	Cluster custom parameter
NetworkType	String	No	Cluster network type, which can be GR (Global Router) or VPC-CNI. The default value is GR.
IsNonStaticIpMode	Boolean	No	Whether a cluster in VPC-CNI mode uses dynamic IP addresses. The default value is FALSE, which indicates that static IP addresses are used.
DeletionProtection	Boolean	No	Indicates whether to enable cluster deletion protection.
KubeProxyMode	String	No	Cluster network proxy model, which is only used when ipvs-bpf mode is used. At present, TKE cluster supports three network proxy modes including <code>iptables</code>, <code>ipvs</code> and <code>ipvs-bpf</code> and their parameter setting relationships are as follows: <code>iptables</code> : do not set IPVS and KubeProxyMode. <code>ipvs</code> : set IPVS to <code>true</code> and do not set KubeProxyMode. <code>ipvs-bpf</code> : set KubeProxyMode to <code>kube-proxy-bpf</code>. The following conditions are required to use ipvs-bpf network mode:

			1. The cluster version must be v1.14 or later. 2. The system image must be Tencent Linux 2.4.
AuditEnabled	Boolean	No	Indicates whether to enable auditing
AuditLogsetId	String	No	Specifies the ID of logset to which the audit logs are uploaded.
AuditLogTopicId	String	No	Specifies the ID of topic to which the audit logs are uploaded.
VpcCniType	String	No	Specifies the ENI type. Values: <code>tke-route-eni</code> (multi-IP shared ENI); <code>tke-direct-eni</code> (independent ENI). It defaults to <code>tke-route-eni</code> .
RuntimeVersion	String	No	Runtime version
EnableCustomizedPodCIDR	Boolean	No	Indicates whether to enable the custom mode for the node's pod CIDR range
BasePodNumber	Integer	No	The basic number of Pods in custom mode
CiliumMode	String	No	Specifies whether to enable Cilium. If it's left empty, Cilium is not enabled. If <code>clusterIP</code> is passed in, it means to enable Cilium to support the clusterIP service type.
IsDualStack	Boolean	No	Whether it is a dual-stack cluster in VPC-CNI mode. Default value: <code>false</code> , which indicates it is not a dual-stack cluster.
QGPUShareEnable	Boolean	No	Whether to enable qGPU Sharing

ClusterAsGroup

Cluster-associated scaling group information

Used by actions: DescribeClusterAsGroups.

Name	Type	Description
AutoScalingGroupId	String	Scaling group ID

Status	String	Scaling group status (<code>enabled</code> , <code>enabling</code> , <code>disabled</code> , <code>disabling</code> , <code>updating</code> , <code>deleting</code> , <code>scaleDownEnabling</code> , <code>scaleDownDisabling</code>)
IsUnschedulable	Boolean	Whether the node is set to unschedulable Note: this field may return null, indicating that no valid value was found.
Labels	Array of Label	Scaling group label list Note: this field may return null, indicating that no valid value was found.
CreatedTime	String	Creation time

ClusterAsGroupAttribute

Cluster scaling group attributes

Used by actions: `ModifyClusterAsGroupAttribute`.

Name	Type	Required	Description
<code>AutoScalingGroupId</code>	String	No	Scaling group ID
<code>AutoScalingGroupEnabled</code>	Boolean	No	Whether it is enabled
<code>AutoScalingGroupRange</code>	AutoScalingGroupRange	No	Maximum and minimum number of pods in a scaling group

ClusterAsGroupOption

Cluster auto scaling configuration

Used by actions: `DescribeClusterAsGroupOption`, `ModifyClusterAsGroupOptionAttribute`.

Name	Type	Required	Description
<code>IsScaleDownEnabled</code>	Boolean	No	Whether to enable scale-in Note: this field may return null, indicating that no valid value was found.
<code>Expander</code>	String	No	The scale-out method when there are multiple scaling groups. <code>random</code> : select a random scaling group. <code>most-pods</code> : choose the scaling group that can schedule the most pods.

			<code>least-waste</code> : select the scaling group that can ensure the fewest remaining resources after Pod scheduling.. The default value is <code>random</code> .) Note: this field may return null, indicating that no valid value was found.
MaxEmptyBulkDelete	Integer	No	Max concurrent scale-in volume Note: this field may return null, indicating that no valid value was found.
ScaleDownDelay	Integer	No	Number of minutes after cluster scale-out when the system starts judging whether to perform scale-in Note: this field may return null, indicating that no valid value was found.
ScaleDownUnneededTime	Integer	No	Number of consecutive minutes of idleness after which the node is subject to scale-in (default value: 10) Note: this field may return null, indicating that no valid value was found.
ScaleDownUtilizationThreshold	Integer	No	Percentage of node resource usage below which the node is considered to be idle (default value: 50) Note: this field may return null, indicating that no valid value was found.
SkipNodesWithLocalStorage	Boolean	No	Do not scale in a node if it contains local storage Pods. Default: <code>true</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SkipNodesWithSystemPods	Boolean	No	Do not scale in a node if it contains Pods in the kube-system namespace that are not managed by DaemonSet. Default: <code>true</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
IgnoreDaemonSetsUtilization	Boolean	No	Whether to ignore DaemonSet pods by default when calculating resource usage (default value: False: do not ignore) Note: this field may return null, indicating that no valid value was found.
OkTotalUnreadyCount	Integer	No	Number at which CA health detection is triggered

			(default value: 3). After the number specified in <code>OkTotalUnreadyCount</code> is exceeded, CA will perform health detection. Note: this field may return null, indicating that no valid value was found.
<code>MaxTotalUnreadyPercentage</code>	Integer	No	Max percentage of unready nodes. After the max percentage is exceeded, CA will stop operation. Note: this field may return null, indicating that no valid value was found.
<code>ScaleDownUnreadyTime</code>	Integer	No	Amount of time before unready nodes become eligible for scale-in Note: this field may return null, indicating that no valid value was found.
<code>UnregisteredNodeRemovalTime</code>	Integer	No	Waiting time before CA deletes nodes that are not registered in Kubernetes Note: this field may return null, indicating that no valid value was found.

ClusterBasicSettings

Describes the basic configuration information of a cluster

Used by actions: `CreateCluster`.

Name	Type	Required	Description
<code>ClusterOs</code>	String	No	Cluster operating system. Public image (enter the image name) and custom image (enter the image ID). For details, see https://www.tencentcloud.com/document/product/320/14474 from_cn_redirect=1
<code>ClusterVersion</code>	String	No	Cluster version. The default value is 1.10
<code>ClusterName</code>	String	No	Cluster name
<code>ClusterDescription</code>	String	No	Cluster description
<code>VpcId</code>	String	No	VPC ID, in the format of vpc-xxx, which is used to create an empty managed cluster.
<code>ProjectId</code>	Integer	No	ID of the project to which the new resource belongs

			belong.
TagSpecification	Array of TagSpecification	No	Tag description list. This parameter is used for resource instances. Currently, a tag can only be assigned to one cluster instance.
OsCustomizeType	String	No	Container image tag, <code>DOCKER_CUSTOM</code> (customized tag), <code>GENERAL</code> (general tag)
NeedWorkSecurityGroup	Boolean	No	Whether to enable the node's default security group (<code>No</code> , Alpha feature)
SubnetId	String	No	When the Cilium Overlay add-on is selected, two IP addresses from the subnet are used to create the private network.
ClusterLevel	String	No	Cluster specifications available for management.
AutoUpgradeClusterLevel	AutoUpgradeClusterLevel	No	Auto cluster upgrade for managed clusters.

ClusterCIDRSettings

Container networking parameters for the cluster

Used by actions: `CreateCluster`.

Name	Type	Required	Description
ClusterCIDR	String	No	CIDR used to assign container and service IP addresses for the cluster. It cannot conflict with the VPC's CIDR or the CIDRs of other clusters in the same VPC.
IgnoreClusterCIDRConflict	Boolean	No	Whether to ignore ClusterCIDR conflict errors, which are not ignored by default.
MaxNodePodNum	Integer	No	Maximum number of Pods on each node. Value range: 16 to 256. When its power is not 2, it will round upward to the closest power of 2.
MaxClusterServiceNum	Integer	No	The maximum number of services in a cluster. The range is from 32 to 32768. When its power is not 2, it will round upward to the closest power of 2. Default value is 256.
ServiceCIDR	String	No	The CIDR block used to assign cluster service IP addresses. It must not conflict with either the VPC CIDR block or with CIDR blocks of other clusters in the same VPC.

			same VPC instance. The IP range must be within the private network IP range, such as 10.1.0.0/14, 192.168.0.1/18, and 172.16.0.0/16.
EniSubnetIds	Array of String	No	Subnet ID of the ENI in VPC-CNI network mode
ClaimExpiredSeconds	Integer	No	Repossession time of ENI IP addresses in VPC-CNI network mode, whose range is [300,15768000)
IgnoreServiceCIDRConflict	Boolean	No	Whether to ignore ServiceCIDR conflict errors. It is only valid in VPC-CNI mode. Default value: <code>false</code> .

ClusterCondition

Cluster creation process

Used by actions: DescribeTKEEdgeClusterStatus.

Name	Type	Description
Type	String	Process type
Status	String	Process status
LastProbeTime	Timestamp	Last time when the status is probed Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
LastTransitionTime	Timestamp	Last time when transiting to the process Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Reason	String	Reasons for transiting to the process Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Message	String	More information on transition Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

ClusterCredential

Authentication information for accessing K8s

Used by actions: DescribeTKEEdgeClusterCredential.

Name	Type	Required	Description
CACert	String	Yes	CA root certificate
Token	String	No	Token for authentication

ClusterExtraArgs

Cluster master custom parameter

Used by actions: CreateCluster, UpdateClusterVersion.

Name	Type	Required	Description
KubeAPIServer	Array of String	No	kube-apiserver custom parameter, in the format of ["k1=v1", "k2=v2"], example: ["max-requests-inflight=500","feature-gates=PodShareProcessNamespace=true,DynamicKubeletCo Note: this field may return <code>null</code> , indicating that no valid value is obtained.
KubeControllerManager	Array of String	No	kube-controller-manager custom parameter Note: this field may return null, indicating that no valid value is obtained.
KubeScheduler	Array of String	No	kube-scheduler custom parameter Note: this field may return null, indicating that no valid value is obtained.
Etdcd	Array of String	No	etcd custom parameter, which is only effective for self-deployed etcd Note: this field may return <code>null</code> , indicating that no valid value is obtained.

ClusterLevelAttribute

Information of the managed cluster model

Used by actions: DescribeClusterLevelAttribute.

Name	Type	Description
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Name	String	Cluster model
Alias	String	Model name
NodeCount	Integer	Number of nodes
PodCount	Integer	Number of Pods
ConfigMapCount	Integer	Number of ConfigMap
RSCount	Integer	Number of ReplicaSets
CRDCount	Integer	Number of CRDs
Enable	Boolean	Whether it is enabled
OtherCount	Integer	Number of other resources Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

ClusterLevelChangeRecord

Cluster model adjustment history

Used by actions: DescribeClusterLevelChangeRecords.

Name	Type	Description
ID	String	Record ID
ClusterID	String	Cluster ID
Status	String	Status (valid values: <code>trading</code> , <code>upgrading</code> , <code>success</code> , <code>failed</code>)
Message	String	Status description
OldLevel	String	Original model
NewLevel	String	New model
TriggerType	String	Trigger type (valid values: <code>manual</code> , <code>auto</code>)
CreatedAt	String	Creation time
StartedAt	String	Start time
EndedAt	String	End time

ClusterNetworkSettings

Cluster network-related parameters

Used by actions: DescribeClusters.

Name	Type	Description
ClusterCIDR	String	CIDR used to assign container and service IPs for the cluster. It cannot conflict with the VPC's CIDR or the CIDRs of other clusters in the same VPC.
IgnoreClusterCIDRConflict	Boolean	Whether to ignore ClusterCIDR conflict errors. It defaults to not ignore.
MaxNodePodNum	Integer	Maximum number of pods on each node in the cluster. Default value: 256
MaxClusterServiceNum	Integer	Maximum number of cluster services. Default value: 256
Ipv6	Boolean	Whether IPV6 is enabled. Default value: disabled
VpcId	String	Cluster VPC ID, which is required when you create an empty cluster; otherwise, it is automatically set to be consistent with that of the nodes in the cluster
Cni	Boolean	Whether CNI is enabled for network plugin(s). Default value: enabled
KubeProxyMode	String	The network mode of service. This parameter is only applicable to ipv6+bpv mode. Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
ServiceCIDR	String	The IP range for service assignment. It cannot conflict with the VPC's CIDR block nor the CIDR blocks of other clusters in the same VPC. Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
Subnets	Array of String	The container subnet associated with the cluster Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
IgnoreServiceCIDRConflict	Boolean	Whether to ignore ServiceCIDR conflict errors. It is only valid in VPC-CNI mode. Default value: <code>false</code> .

		Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
IsDualStack	Boolean	Whether it is a dual-stack cluster in VPC-CNI mode. Default value: <code>false</code> , which indicates it is not a dual-stack cluster. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
Ipv6ServiceCIDR	String	It is used to automatically assign the IP ranges for the service. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
CiliumMode	String	Cluster Cilium Mode configuration - clusterIP Note: This field may return <code>null</code> , indicating that no valid value can be obtained.

ClusterStatus

Cluster status information

Used by actions: DescribeClusterStatus.

Name	Type	Description
ClusterId	String	Cluster ID
ClusterState	String	Cluster status
ClusterInstanceState	String	Status of nodes in the cluster
ClusterBMonitor	Boolean	Indicates whether the monitoring service is enabled for the cluster
ClusterInitNodeNum	Integer	Number of cluster nodes being created. "-1" indicates that the request to obtain the node status timed out. "-2" indicates that the request failed.
ClusterRunningNodeNum	Integer	Number of running nodes in the cluster. "-1" indicates that the request to obtain the node status timed out. "-2" indicates that the request failed.
ClusterFailedNodeNum	Integer	Number of abnormal nodes in the cluster. "-1" indicates that the request to obtain the node status timed out. "-2" indicates that the request failed.

ClusterClosedNodeNum	Integer	Number of shutdown nodes in the cluster. "-1" indicates that the request to obtain the node status timed out. "-2" indicates that the request failed. Note: this field may return <code>null</code> , indicating that no valid value can be found.
ClusterClosingNodeNum	Integer	Number of nodes being shut down in the cluster. "-1" indicates that the request to obtain the node status timed out. "-2" indicates that the request failed. Note: this field may return <code>null</code> , indicating that no valid value can be found.
ClusterDeletionProtection	Boolean	Indicates whether to enable cluster deletion protection Note: this field may return <code>null</code> , indicating that no valid value can be found.
ClusterAuditEnabled	Boolean	Indicates whether the cluster is auditable Note: this field may return <code>null</code> , indicating that no valid value can be found.

ClusterVersion

Cluster version information

Used by actions: DescribeAvailableClusterVersion.

Name	Type	Description
ClusterId	String	Cluster ID
Versions	Array of String	The list of cluster major version, such as 1.18.4

CommonName

The CommonName in the certificate of the client corresponding to the user UIN

Used by actions: DescribeClusterCommonNames.

Name	Type	Description
SubaccountUin	String	User UIN
CN	String	The CommonName in the certificate of the client corresponding to the sub-account

CustomDriver

Custom driver information

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, ModifyClusterNodePool, UpgradeClusterInstances.

Name	Type	Required	Description
Address	String	No	URL of custom GPU driver address Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

DataDisk

Described the configuration and information of k8s node data disk.

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, UpgradeClusterInstances.

Name	Type	Required	Description
DiskType	String	Yes	Disk type Note: this field may return null, indicating that no valid values can be obtained.
FileSystem	String	Yes	File system (ext3/ext4/xfs) Note: This field may return null, indicating that no valid value was found.
DiskSize	Integer	Yes	Disk size (G) Note: This field may return null, indicating that no valid value was found.
AutoFormatAndMount	Boolean	Yes	Whether the disk is auto-formatted and mounted Note: this field may return <code>null</code> , indicating that no valid value is obtained.
DiskPartition	String	Yes	Mounted device name or partition name (only required when adding an existing node) Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
MountTarget	String	No	Mounting directory

Note: This field may return null, indicating that no valid value was found.

DriverVersion

Version information of GPU driver and CUDA

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, ModifyClusterNodePool, UpgradeClusterInstances.

Name	Type	Required	Description
Version	String	Yes	Version of GPU driver or CUDA
Name	String	Yes	Name of GPU driver or CUDA

ECMEnhancedService

ECM enhanced services

Used by actions: CreateECMInstances.

Name	Type	Required	Description
SecurityService	ECMRunMonitorServiceEnabled	No	Whether Cloud Monitoring is enabled
MonitorService	ECMRunSecurityServiceEnabled	No	Whether Cloud Workload Protection is enabled

ECMRunMonitorServiceEnabled

ECM Cloud Monitoring

Used by actions: CreateECMInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether it is enabled

ECMRunSecurityServiceEnabled

ECM Cloud Workload Protection

Used by actions: CreateECMInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether it is enabled
Version	Integer	No	CWP version. Valid values: <code>0</code> (CWP Pro), <code>1</code> (CWP Pro)

ECMZoneInstanceCountISP

Combination of the ECM instance AZ, number of instances, and ISP

Used by actions: CreateECMInstances.

Name	Type	Required	Description
Zone	String	Yes	Instance AZ
InstanceCount	Integer	Yes	Number of instances to be created in the current AZ
ISP	String	Yes	ISP

EdgeArgsFlag

Edge cluster parameters

Used by actions: DescribeEdgeAvailableExtraArgs.

Name	Type	Required	Description
Name	String	No	Parameter name Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Type	String	No	Parameter type Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Usage	String	No	Parameter description

			Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Default	String	No	Default value of the parameter Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Constraint	String	No	Valid value or range. Options: <code>[]</code> (it indicates a range, for example, “[1, 5]” indicates the parameter must be equal or larger than 1, and be equal or smaller than 5), and <code>()</code> (it indicates a valid value, for example, “(‘aa’, ‘bb’)” indicates the parameter must be “aa” or “bb”. If it is left empty, the verification can be skipped.) Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

EdgeAvailableExtraArgs

Custom parameters available for the edge cluster

Used by actions: DescribeEdgeAvailableExtraArgs.

Name	Type	Required	Description
KubeAPIServer	Array of EdgeArgsFlag	No	kube-apiserver custom parameter Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
KubeControllerManager	Array of EdgeArgsFlag	No	kube-controller-manager custom parameter Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
KubeScheduler	Array of EdgeArgsFlag	No	kube-scheduler custom parameter Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Kubelet	Array of EdgeArgsFlag	No	kubelet custom parameter Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

EdgeCluster

Edge compute cluster information

Used by actions: DescribeTKEEdgeClusters.

Name	Type	Required	Description
ClusterId	String	Yes	Cluster ID
ClusterName	String	Yes	Cluster name
VpcId	String	Yes	VPC ID
PodCIDR	String	Yes	Cluster Pod CIDR block
ServiceCIDR	String	Yes	Cluster service CIDR block
K8SVersion	String	Yes	
Status	String	No	Cluster status
ClusterDesc	String	No	Cluster description
CreatedTime	String	No	Cluster creation time
EdgeClusterVersion	String	No	Edge cluster version
MaxNodePodNum	Integer	No	Maximum number of Pods on the node Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ClusterAdvancedSettings	EdgeClusterAdvancedSettings	No	Cluster advanced settings Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Level	String	No	TKE edge cluster level Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
AutoUpgradeClusterLevel	Boolean	No	Whether to support auto upgrade of cluster spec level Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ChargeType	String	No	Cluster billing mode. Valid values: <code>POSTPAID_BY_HOUR</code> ,

			PREPAID Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
EdgeVersion	String	No	Edge cluster component version Note: This field may return null, indicating that no valid values can be obtained.
TagSpecification	TagSpecification	No	u200dTags bound with the cluster Note: u200dThis field may return <code>null</code> , indicating that no valid values can be obtained.

EdgeClusterAdvancedSettings

Edge cluster advanced settings

Used by actions: [CreateTKEEdgeCluster](#), [DescribeTKEEdgeClusters](#).

Name	Type	Required	Description
ExtraArgs	EdgeClusterExtraArgs	No	Custom parameters of the cluster Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Runtime	String	No	Runtime type. Valid values: "docker" (default), "containerd". Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ProxyMode	String	No	Forwarding mode of kube-proxy. Valid values: "iptables" (default), "ipvs". Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

EdgeClusterExtraArgs

Edge cluster master custom parameters

Used by actions: [CreateTKEEdgeCluster](#), [DescribeEdgeClusterExtraArgs](#).

Name	Type	Required	Description
KubeAPIServer	Array of String	No	kube-apiserver custom parameter, in the format of ["k1=v1", "k2=v2"], example: ["max-requests-inflight=500","feature-gates=PodShareProcessNamespace=true,DynamicKubeletConfig=true"] Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
KubeControllerManager	Array of String	No	kube-controller-manager custom parameter Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
KubeScheduler	Array of String	No	kube-scheduler custom parameter Note: This field may return <code>null</code> , indicating that no valid value can be obtained.

EdgeClusterInternalLB

Edge compute cluster private LB information

Used by actions: DescribeTKEEdgeClusterCredential.

Name	Type	Required	Description
Enabled	Boolean	Yes	Whether the private LB is enabled Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
SubnetId	Array of String	No	ID of the subnet associated with the private LB Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

EdgeClusterPublicLB

Edge compute cluster public LB information

Used by actions: CreateTKEEdgeCluster, DescribeTKEEdgeClusterCredential.

Name	Type	Required	Description
Enabled	Boolean	Yes	Whether the public LB is enabled Note: This field may return <code>null</code> , indicating that no valid

			values can be obtained.
AllowFromCidrs	Array of String	No	Public network CIDR block allowed to access Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

EnhancedService

Describes the configuration of enhanced services, such as Cloud Security and Cloud Monitor.

Used by actions: AddExistedInstances, CreateCluster, UpgradeClusterInstances.

Name	Type	Required	Description
SecurityService	RunSecurityServiceEnabled	No	Enables cloud security service. If this parameter is not specified, the cloud security service will be enabled by default.
MonitorService	RunMonitorServiceEnabled	No	Enables cloud monitor service. If this parameter is not specified, the cloud monitor service will be enabled by default.
AutomationService	RunAutomationServiceEnabled	No	Whether to enable the TAT service. If this parameter is not specified, the TAT service is enabled for public images and disabled for other images by default.

ExistedInstance

Information of existing instances

Used by actions: DescribeExistedInstances.

Name	Type	Description
Usable	Boolean	Whether the instance supports being added to the cluster (TRUE: support; FALSE: not support). Note: This field may return null, indicating that no valid values can be obtained.

UnusableReason	String	Reason that the instance does not support being added. Note: This field may return null, indicating that no valid values can be obtained.
AlreadyInCluster	String	ID of the cluster in which the instance currently resides. Note: This field may return null, indicating that no valid values can be obtained.
InstanceId	String	Instance ID, in the format of ins-xxxxxxx.
InstanceName	String	Instance name. Note: This field may return null, indicating that no valid values can be obtained.
PrivateIpAddresses	Array of String	List of private IPs of the instance's primary ENI. Note: This field may return null, indicating that no valid values can be obtained.
PublicIpAddresses	Array of String	List of public IPs of the instance's primary ENI. Note: This field may return null, indicating that no valid values can be obtained.
CreatedTime	String	Creation time, which follows the ISO8601 standard and uses UTC time. Format: YYYY-MM-DDThh:mm:ssZ. Note: This field may return null, indicating that no valid values can be obtained.
CPU	Integer	Instance's number of CPU cores. Unit: cores. Note: This field may return null, indicating that no valid values can be obtained.
Memory	Integer	Instance's memory capacity. Unit: GB. Note: This field may return null, indicating that no valid values can be obtained.
OsName	String	Operating system name. Note: This field may return null, indicating that no valid values can be obtained.
InstanceType	String	Instance model. Note: This field may return null, indicating that no valid values can be obtained.
AutoscalingGroupID	String	Auto scaling group ID Note: This field may return null, indicating that no valid value was found.
InstanceChargeType	String	Instance billing method. Valid values: POSTPAID_BY_HOUR (pay-as-you-go hourly); CDHPAID (billed based on CDH, i.e., only CDH is billed but

		not the instances on CDH) Note: This field may return null, indicating that no valid value was found.
IPv6Addresses	Array of String	IPv6 address of the instance Note: This field may return <code>null</code> , indicating that no valid values can be obtained. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

ExistedInstancesForNode

Configuration parameters of existing nodes in different roles

Used by actions: CreateCluster.

Name	Type	Required	Description
NodeRole	String	Yes	Node role. Values: MASTER_ETCD, WORKER. You only need to specify MASTER_ETCD when creating a self-deployed cluster (INDEPENDENT_CLUSTER)
ExistedInstancesPara	ExistedInstancesPara	Yes	Reinstallation parameter of existing instances
InstanceAdvancedSettingsOverride	InstanceAdvancedSettings	No	Advanced node setting, which overrides the InstanceAdvancedSettings item set at the cluster level (currently valid for the ExtraArgs node custom parameter only)
DesiredPodNumbers	Array of Integer	No	When the custom PodCIDR mode is enabled for the cluster, you can specify the maximum number of pods per node.

ExistedInstancesPara

Reinstallation parameter of existing instances

Used by actions: CreateCluster.

Name	Type	Required	Description
InstanceIds	Array of String	Yes	Cluster ID
InstanceAdvancedSettings	InstanceAdvancedSettings	No	Additional parameter to be set for the instance
EnhancedService	EnhancedService	No	Enhanced services. This parameter is used to specify whether to enable Cloud Security, Cloud Monitor and other services. If this parameter is not specified, Cloud Monitor and Cloud Security are enabled by default.
LoginSettings	LoginSettings	No	Node login information (currently only supports using Password or single KeyIds)
SecurityGroupIds	Array of String	No	Security group to which the instance belongs. This parameter can be obtained from the sgId field in the returned values of DescribeSecurityGroups. If this parameter is not specified, the default security group is bound. (Currently, you can only set a single sgId)
HostName	String	No	When reinstalling the system, you can specify the HostName of the modified instance (when the cluster is in HostName mode, this parameter is required, and the rule name is the same as the Create CVM Instance API HostName except for uppercase letters not being supported.

ExtensionAddon

Information of the add-on selected for installation during cluster creation

Used by actions: CreateCluster.

Name	Type	Required	Description
AddonName	String	Yes	Add-on name
AddonParam	String	Yes	Add-on information (description of the add-on resource object in JSON string format)

Filter

Key-value pair filters used for conditional queries, such as filtering results by ID, name, and state.

- If there are multiple `Filter` parameters, they are evaluated using the logical `AND` operator.
- If a `Filter` contains multiple `Values`, they are evaluated using the logical `OR` operator.

Take [DescribeInstances](#) as an example. You can use the following filters to query the instances in availability zone (`zone`) Guangzhou Zone 1 **and** whose billing plan (`instance-charge-type`) is pay-as-you-go:

```
Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-1
&Filters.1.Name=instance-charge-type
&Filters.1.Values.0=POSTPAID_BY_HOUR
```

Used by actions: CheckInstancesUpgradeAble, DescribeClusterInstances, DescribeClusterNodePools, DescribeClusterRoutes, DescribeClusters, DescribeECMInstances, DescribeEdgeCVMInstances, DescribeEdgeClusterInstances, DescribeExistedInstances, DescribeTKEEdgeClusters.

Name	Type	Required	Description
Name	String	Yes	Filters.
Values	Array of String	Yes	Filter values.

GPUArgs

GPU parameters, including GPU driver version, CDUA version, cuDNN version and whether to enable MIG.

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, ModifyClusterNodePool, UpgradeClusterInstances.

Name	Type	Required	Description
MIGEnable	Boolean	No	Whether to enable MIG Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Driver	DriverVersion	No	GPU driver version
CUDA	DriverVersion	No	CUDA version Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
CUDNN	CUDNN	No	cuDNN version Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
CustomDriver	CustomDriver	No	Custom GPU driver Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

IPAddress

IP Address

Used by actions: DescribeTKEEdgeClusterCredential.

Name	Type	Required	Description
Type	String	Yes	Type. Valid values: <code>advertise</code> , <code>public</code> , and others
Ip	String	Yes	IP Address
Port	Integer	Yes	Network port

ImageInstance

Image details

Used by actions: DescribeImages.

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Name	Type	Description
Alias	String	Image alias Note: this field may return null, indicating that no valid values can be obtained.
OsName	String	Operating system name Note: this field may return null, indicating that no valid values can be obtained.
ImageId	String	Image ID Note: this field may return null, indicating that no valid values can be obtained.
OsCustomizeType	String	Container image tag, DOCKER_CUSTOMIZE (container customized tag), GENERAL (general tag, default value) Note: this field may return null, indicating that no valid values can be obtained.

Instance

Cluster's instance information

Used by actions: DescribeClusterInstances.

Name	Type	Description
InstanceId	String	Instance ID
InstanceRole	String	Node role: MASTER, WORKER, ETCD, MASTER_ETCD, and ALL. Default value: WORKER
FailedReason	String	Reason for instance exception (or initialization)
InstanceState	String	Instance status (running, initializing, or failed)
DrainStatus	String	Whether the instance is drained Note: this field may return null, indicating that no valid value is obtained.
InstanceAdvancedSettings	InstanceAdvancedSettings	Node settings Note: this field may return null, indicating that no valid value is obtained.
CreatedTime	String	Creation time
LanIP	String	Node private IP Note: this field may return null, indicating that no valid values can be obtained.

NodePoolId	String	Resource pool ID Note: this field may return null, indicating that no valid values can be obtained.
AutoscalingGroupId	String	ID of the auto-scaling group Note: this field may return null, indicating that no valid value is obtained.

InstanceAdvancedSettings

Describes K8s cluster configuration and related information.

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, UpgradeClusterInstances.

Name	Type	Required	Description
DesiredPodNumber	Integer	Yes	When the custom PodCIDR mode is enabled for the cluster, you can specify the maximum number of pods per node. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
GPUArgs	GPUArgs	Yes	GPU driver parameters Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
PreStartUserScript	String	Yes	Specifies the base64-encoded custom script to be executed before initialization of the node. It's only valid for adding existing nodes for now. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Taints	Array of Taint	Yes	Node taint Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
MountTarget	String	No	Data disk mount point. By default, no data disk is mounted. Data disks in ext3, ext4, or XFS file system formats will be mounted directly, while data disks in other file systems and unformatted data disks will automatically be formatted as ext4 (xfs for tlinux system) and then mounted. Please back up your data in advance. This setting is only applicable

			to CVMs with a single data disk. Note: in multi-disk scenarios, use the DataDisks data structure below to set the corresponding information, such as cloud disk type, cloud disk size, mount path, and whether to perform formatting. Note: this field may return <code>null</code>, indicating that no valid values can be obtained.
DockerGraphPath	String	No	Specified value of dockerd --graph. Default value: <code>/var/lib/docker</code> Note: This field may return null, indicating that no valid value was found.
UserScript	String	No	Base64-encoded user script, which will be executed after the K8s component starts running. You need to ensure the reentrant and retry logic of the script. The script and its log files can be viewed at the node path: <code>/data/ccs_userscript/</code>. If you want to initialize nodes before adding them to the scheduling list, you can use this parameter together with the unschedulable parameter. After the final initialization of userScript is completed, add the <code>kubectl uncordon nodename -- kubeconfig=/root/.kube/config</code> command to enable the node for scheduling. Note: This field may return null, indicating that no valid value was found.
Unschedulable	Integer	No	Sets whether the added node is schedulable. 0 (default): schedulable; other values: unschedulable. After node initialization is completed, you can run <code>kubectl uncordon nodename</code> to enable this node for scheduling.
Labels	Array of Label	No	Node label array Note: This field may return null, indicating that no valid value was found.
DataDisks	Array of DataDisk	No	Mounting information of multiple data disks. When you create a node, ensure that the CVM purchase parameter specifies the information required for the purchase of multiple data disks. For example, the <code>DataDisks</code> under <code>RunInstancesPara</code> of the <code>CreateClusterInstances</code> API should be configured accordingly (Referto document of

			CreateClusterInstances API). When you add an existing node, ensure that the specified partition exists in the node. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
ExtraArgs	InstanceExtraArgs	No	Information about node custom parameters Note: This field may return null, indicating that no valid value was found.

InstanceDataDiskMountSetting

Mounting configuration of the CVM instance data disk

Used by actions: CreateCluster.

Name	Type	Required	Description
InstanceType	String	Yes	CVM instance type
DataDisks	Array of DataDisk	Yes	Data disk mounting information
Zone	String	Yes	Availability zone where the CVM instance is located

InstanceExtraArgs

Node custom parameter

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, DescribeClusterInstances, ModifyClusterNodePool, UpgradeClusterInstances.

Name	Type	Required	Description
Kubelet	Array of String	No	Kubelet custom parameter, in the format of ["k1=v1", "k1=v2"], for example: ["root-dir=/var/lib/kubelet", "feature-gates=PodShareProcessNamespace=true,DynamicKubeletConfig=true"]. Note: this field may return <code>null</code> , indicating that no valid value is obtained.

InstanceUpgradeClusterStatus

Current status of the cluster during node upgrade

Used by actions: GetUpgradeInstanceProgress.

Name	Type	Description
PodTotal	Integer	Total Pods
NotReadyPod	Integer	Total number of NotReady Pods

InstanceUpgradePreCheckResult

Pre-upgrade check result of a node

Used by actions: GetUpgradeInstanceProgress.

Name	Type	Description
CheckPass	Boolean	Whether the check is passed
Items	Array of InstanceUpgradePreCheckResultItem	Array of check items
SinglePods	Array of String	List of independent pods on this node

InstanceUpgradePreCheckResultItem

Check result for node upgrade

Used by actions: GetUpgradeInstanceProgress.

Name	Type	Description
Namespace	String	The namespace of the workload
WorkLoadKind	String	Workload type
WorkLoadName	String	Workload name
Before	Integer	The number of running pods in the workload before draining the node
After	Integer	The number of running pods in the workload after draining the node
Pods	Array of String	The pod list of the workload on this node

InstanceUpgradeProgressItem

Upgrade progress of a node

Used by actions: GetUpgradeInstanceProgress.

Name	Type	Description
InstanceId	String	Node instance ID
LifeState	String	Task lifecycle process: running paused: stopped pausing: stopping done: completed timeout: timed out aborted: canceled pending: not started
StartAt	String	Upgrade start time Note: this field may return <code>null</code> , indicating that no valid value is obtained.
EndAt	String	Upgrade end time Note: this field may return <code>null</code> , indicating that no valid value is obtained.
CheckResult	InstanceUpgradePreCheckResult	Check result before upgrading
Detail	Array of TaskStepInfo	Upgrade steps details

KMSConfiguration

KMS encryption parameters

Used by actions: EnableEncryptionProtection.

Name	Type	Required	Description
KeyId	String	No	KMS ID
KmsRegion	String	No	KMS region

Label

k8s tags, generally exist as an array

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, CreateClusterVirtualNodePool, CreatePrometheusAlertRule, DescribeClusterAsGroups, DescribeClusterInstances, DescribeClusterNodePoolDetail, DescribeClusterNodePools, DescribeClusterVirtualNodePools, ModifyClusterNodePool, ModifyClusterVirtualNodePool, ModifyPrometheusAlertRule, UpgradeClusterInstances.

Name	Type	Required	Description
Name	String	Yes	Name in map list
Value	String	Yes	Value in map list

LoginSettings

Describes login settings of an instance.

Used by actions: AddExistedInstances, CreateCluster, UpgradeClusterInstances.

Name	Type	Required	Description
Password	String	No	Login password of the instance. - For Linux instances, the password must include 8-30 characters, and contain at least two of the following character sets: [a-z], [A-Z], [0-9] and [()!@#\$%^&*~+= {}[];:,.'?/]. - For Windows instances, the password must include 12-30 characters, and contain at least three of the following character sets: [a-z], [A-Z], [0-9] and [()!@#\$%^&*~+= {}[];:,.'?/]. If it's not specified, the user needs to set the login password using the Reset password option in the CVM console or calling the API <code>ResetInstancesPassword</code> to complete the creation of the CVM instance(s). Note: This field may return <code>null</code>, indicating that no valid values can be obtained.
KeyIds	Array of String	No	List of key IDs. After an instance is associated with a key, you can access the instance with the private key in the key pair. You can call <code>DescribeKeyPairs</code> to obtain <code>KeyId</code>. You cannot specify a key and a password at the same time. Windows instances do not support keys.

			Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
KeepImageLogin	String	No	Whether to keep the original settings of an image. You cannot specify this parameter and <code>Password</code> or <code>KeyIds.N</code> at the same time. You can specify this parameter as <code>TRUE</code> only when you create an instance using a custom image, a shared image, or an imported image. Valid values: - TRUE: keep the login settings of the image - FALSE: do not keep the login settings of the image Default value: FALSE. Note: This field may return null, indicating that no valid value is found.

ManuallyAdded

Nodes that are manually added

Used by actions: DescribeClusterNodePoolDetail, DescribeClusterNodePools.

Name	Type	Description
Joining	Integer	Number of nodes that are being added
Initializing	Integer	Number of nodes that are being initialized
Normal	Integer	Number of normal nodes
Total	Integer	Total number of nodes

NodeCountSummary

Node statistics list

Used by actions: DescribeClusterNodePoolDetail, DescribeClusterNodePools.

Name	Type	Description
ManuallyAdded	ManuallyAdded	Nodes that are manually managed Note: this field may return <code>null</code> , indicating that no valid value is obtained.

AutoscalingAdded	AutoscalingAdded	Nodes that are automatically managed Note: this field may return <code>null</code> , indicating that no valid value is obtained.
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NodePool

Node pool description

Used by actions: DescribeClusterNodePoolDetail, DescribeClusterNodePools.

Name	Type	Description
NodePoolId	String	Node pool ID
Name	String	Node pool name
ClusterInstanceId	String	Cluster instance ID
LifeState	String	The lifecycle state of the current node pool. Valid values: <code>creating</code> , <code>normal</code> , <code>updating</code> , <code>deleting</code> , and <code>deleted</code> .
LaunchConfigurationId	String	Launch configuration ID
AutoscalingGroupId	String	Auto-scaling group ID
Labels	Array of Label	Labels
Taints	Array of Taint	Array of taint
NodeCountSummary	NodeCountSummary	Node list
AutoscalingGroupStatus	String	
MaxNodesNum	Integer	Maximum number of nodes Note: this field may return <code>null</code> , indicating that no valid value is obtained.
MinNodesNum	Integer	Minimum number of nodes Note: this field may return <code>null</code> , indicating that no valid value is obtained.
DesiredNodesNum	Integer	Desired number of nodes Note: this field may return <code>null</code> , indicating that no valid value is obtained.

NodePoolOs	String	The operating system of the node pool Note: this field may return <code>null</code> , indicating that no valid value is obtained.
OsCustomizeType	String	Container image tag, <code>DOCKER_CUSTOMIZE</code> (container customized tag), <code>GENERAL</code> (general tag, default value) Note: this field may return <code>null</code> , indicating that no valid value is obtained.
ImageId	String	Image ID Note: this field may return <code>null</code> , indicating that no valid value is obtained.
DesiredPodNum	Integer	This parameter is required when the custom PodCIDR mode is enabled for the cluster. Note: this field may return <code>null</code> , indicating that no valid value is obtained.
UserScript	String	Custom script Note: this field may return <code>null</code> , indicating that no valid value is obtained.
Tags	Array of Tag	Resource tag Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
DeletionProtection	Boolean	Whether Deletion Protection is enabled Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

NodePoolOption

The options for adding the existing node to the node pool

Used by actions: `AddExistedInstances`.

Name	Type	Required	Description
<code>AddToNodePool</code>	Boolean	No	Whether to add to the node pool.
<code>NodePoolId</code>	String	No	Node pool ID
<code>InheritConfigurationFromNodePool</code>	Boolean	No	Whether to inherit the node pool configuration.

OIDCConfigAuthenticationOptions

OIDC authentication related configurations

Used by actions: DescribeClusterAuthenticationOptions, ModifyClusterAuthenticationOptions.

Name	Type	Required	Description
AutoCreateOIDCConfig	Boolean	No	Creating an identity provider Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
AutoCreateClientId	Array of String	No	Creating ClientId of the identity provider Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
AutoInstallPodIdentityWebhookAddon	Boolean	No	Creating the PodIdentityWebhook component Note: This field may return <code>null</code> , indicating that no valid value can be obtained.

PodLimitsByType

The maximum number of Pods in VPC-CNI mode supported by a model

Used by actions: DescribeVpcCniPodLimits.

Name	Type	Description
TKERouteENINonStaticIP	Integer	The number of Pods supported by a TKE shared ENI in non-static IP address mode Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
TKERouteENIStaticIP	Integer	The number of Pods supported by a TKE shared ENI in static IP address mode Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
TKEDirectENI	Integer	The number of Pods supported by TKE independent ENI mode Note: this field may return <code>null</code> , indicating that no valid value can

be obtained.

PodLimitsInstance

The model information and the maximum supported number of Pods in the VPC-CNI mode

Used by actions: DescribeVpcCniPodLimits.

Name	Type	Description
Zone	String	The availability zone where the model is located Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
InstanceFamily	String	The instance family to which the model belongs Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
InstanceType	String	Instance type Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
PodLimits	PodLimitsByType	The maximum number of Pods in the VPC-CNI mode supported by the model Note: this field may return <code>null</code> , indicating that no valid value can be obtained.

PrometheusAlertRule

PROM instance alarm rule

Used by actions: CreatePrometheusAlertRule, ModifyPrometheusAlertRule.

Name	Type	Required	Description
Name	String	Yes	Rule name
Rule	String	Yes	PromQL contents
Labels	Array of Label	Yes	Additional labels
Template	String	Yes	Alarm delivery template

For	String	Yes	Duration
Describe	String	No	Rule description Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
Annotations	Array of Label	No	Refer to annotations in prometheus rule Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
RuleState	Integer	No	Alarm rule status Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

PrometheusAlertRuleDetail

The alarm configuration

Used by actions: CreatePrometheusAlertRule, ModifyPrometheusAlertRule.

Name	Type	Required	Description
Name	String	Yes	Rule name
Rules	Array of PrometheusAlertRule	Yes	Rule list
UpdatedAt	String	No	Last modification time
Notification	PrometheusNotification	No	Alarm delivery methods
Id	String	No	Alarm rule ID
TemplateId	String	No	If the alarm is delivered via a template, the TemplateId is the template ID. Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
Interval	String	No	Alarm interval Note: this field may return <code>null</code> , indicating that no valid value can be obtained.

PrometheusGrafanaInfo

The grafana information in the managed PROM instance

Used by actions: DescribePrometheusInstance.

Name	Type	Description
Enabled	Boolean	Whether it is enabled
Domain	String	Domain name. It will be effective only when the public network access is enabled.
Address	String	The private network or public network address
Internet	String	Whether the public network access is enabled. <code>close</code> : the public network access is not enabled <code>opening</code> : the public network access is being enabled <code>open</code> : the public network access is enabled
AdminUser	String	The user name of the grafana admin

PrometheusNotification

amp alarm channel configuration

Used by actions: CreatePrometheusAlertRule, ModifyPrometheusAlertRule.

Name	Type	Required	Description
Enabled	Boolean	Yes	Whether it is enabled
RepeatInterval	String	Yes	Convergence time
TimeRangeStart	String	Yes	Start time
TimeRangeEnd	String	Yes	End time
NotifyWay	Array of String	No	Alarm delivery method. Valid values: <code>SMS</code> , <code>EMAIL</code> , <code>CALL</code> , and <code>WECHAT</code> It respectively represents SMS, email, phone calls, and WeChat. Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
ReceiverGroups	Array of Integer	No	The alarm recipient group (user group) Note: this field may return <code>null</code> , indicating that no valid value can be obtained.

PhoneNotifyOrder	Array of Integer	No	The alarm sequence of phone calls This parameter is used when you specify <code>CALL</code> for <code>NotifyWay</code> . Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
PhoneCircleTimes	Integer	No	The number of phone call alarms This parameter is used when you specify <code>CALL</code> for <code>NotifyWay</code> . Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
PhoneInnerInterval	Integer	No	Dialing interval in seconds within one polling This parameter is used when you specify <code>CALL</code> for <code>NotifyWay</code> . Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
PhoneCircleInterval	Integer	No	Polling interval in seconds This parameter is used when you specify <code>CALL</code> for <code>NotifyWay</code> . Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
PhoneArriveNotice	Boolean	No	Phone call alarm arrival notification This parameter is used when you specify <code>CALL</code> for <code>NotifyWay</code> . Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
Type	String	No	Channel type. Default value: <code>amp</code> . The following channels are supported: <code>amp</code> <code>webhook</code> Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
WebHook	String	No	This parameter is required if <code>Type</code> is <code>webhook</code> . Note: this field may return <code>null</code> , indicating that no valid value can be obtained.

RegionInstance

Region information

Used by actions: DescribeRegions.

Name	Type	Description
RegionName	String	Region name Note: this field may return null, indicating that no valid values can be obtained.
RegionId	Integer	Region ID Note: this field may return null, indicating that no valid values can be obtained.
Status	String	Region status Note: this field may return null, indicating that no valid values can be obtained.
FeatureGates	String	Status of region-related features (return all attributes in JSON format) Note: this field may return null, indicating that no valid values can be obtained.
Alias	String	Region abbreviation Note: this field may return null, indicating that no valid values can be obtained.
Remark	String	Whitelisted location Note: this field may return null, indicating that no valid values can be obtained.

ResourceDeleteOption

The policy to deal with resources in the cluster when the cluster is deleted.

Used by actions: DeleteCluster.

Name	Type	Required	Description
ResourceType	String	Yes	Resource type, for example <code>CBS</code>
DeleteMode	String	Yes	Specifies the policy to deal with resources in the cluster when the cluster is deleted. It can be <code>terminate</code> or <code>retain</code> .

ResourceUsage

Cluster resource usage

Used by actions: DescribeResourceUsage.

Name	Type	Description
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Name	String	Resource type
Usage	Integer	Resource usage
Details	Array of ResourceUsageDetail	Resource usage details

ResourceUsageDetail

Resource usage details

Used by actions: DescribeResourceUsage.

Name	Type	Description
Name	String	Resource name
Usage	Integer	Resource usage

RouteInfo

Object of cluster route

Used by actions: DescribeClusterRoutes.

Name	Type	Description
RouteTableName	String	Route table name.
DestinationCidrBlock	String	Destination CIDR.
GatewayIp	String	Next hop address.

RouteTableConflict

Object of route table conflict

Used by actions: DescribeRouteTableConflicts.

Name	Type	Description
RouteTableType	String	Route table type.

RouteTableCidrBlock	String	Route table CIDR. Note: This field may return null, indicating that no valid values can be obtained.
RouteTableName	String	Route table name. Note: This field may return null, indicating that no valid values can be obtained.
RouteTableId	String	Route table ID. Note: This field may return null, indicating that no valid values can be obtained.

RouteTableInfo

Object of cluster route table

Used by actions: DescribeClusterRouteTables.

Name	Type	Description
RouteTableName	String	Route table name.
RouteTableCidrBlock	String	Route table CIDR.
VpcId	String	VPC instance ID.

RunAutomationServiceEnabled

Describes the TAT service information.

Used by actions: AddExistedInstances, UpgradeClusterInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable the TAT service. Valid values: <code>TRUE</code> : yes; <code>FALSE</code> : no Default: <code>FALSE</code> .

RunInstancesForNode

Node configuration parameters of different roles

Used by actions: CreateCluster.

Name	Type	Required	Description
NodeRole	String	Yes	Node role. Values: MASTER_ETCD, WORKER You only need to specify MASTER_ETCD when creating a self-deployed cluster (INDEPENDENT_CLUSTER)
RunInstancesPara	Array of String	Yes	Pass-through parameter for CVM creation in the format of a JSON string. For more information, see the API for creating a CVM instance . Pass any parameter other than common parameters. ImageId will be replaced with the image corresponding to the TKE cluster operating system.
InstanceAdvancedSettingsOverrides	Array of InstanceAdvancedSettings	No	An advanced node setting. This parameter overrides the InstanceAdvancedSettings item set at the cluster level and corresponds to RunInstancesPara in a one-to-one sequential manner (currently valid for the ExtraArgs node custom parameter only).

RunMonitorServiceEnabled

Describes information related to the Cloud Monitor service.

Used by actions: AddExistedInstances, UpgradeClusterInstances.

Name	Type	Required	Description

Enabled	Boolean	No	Whether to enable Cloud Monitor . Valid values: - TRUE: enable Cloud Monitor - FALSE: do not enable Cloud Monitor Default value: TRUE.
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RunSecurityServiceEnabled

Describes information related to the Cloud Security service.

Used by actions: AddExistedInstances, UpgradeClusterInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable Cloud Security . Valid values: - TRUE: enable Cloud Security - FALSE: do not enable Cloud Security Default value: TRUE.

ServiceAccountAuthenticationOptions

ServiceAccount authentication configuration

Used by actions: DescribeClusterAuthenticationOptions, ModifyClusterAuthenticationOptions.

Name	Type	Required	Description
UseTKEDefault	Boolean	No	Use TKE default issuer and jwksuri Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Issuer	String	No	service-account-issuer Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
JWKSURI	String	No	service-account-jwks-uri Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

AutoCreateDiscoveryAnonymousAuth	Boolean	No	If it is set to <code>true</code> , a RABC rule is automatically created to allow anonymous users to access <code>/.well-known/openid-configuration</code> and <code>/openid/v1/jwks</code> . Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
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Tag

The type of resource the label is bound to. Type currently supported is **cluster**.

Used by actions: CreateClusterNodePool, CreateClusterVirtualNode, CreateClusterVirtualNodePool, CreateTKEEdgeCluster, DescribeClusterNodePoolDetail, DescribeClusterNodePools, ModifyClusterNodePool.

Name	Type	Required	Description
Key	String	No	Tag key.
Value	String	No	Tag value.

TagSpecification

List of tag descriptions. By specifying this parameter, you can bind tags to corresponding resource instances at the same time. Currently, only tags are bound to cloud host instances.

Used by actions: CreateCluster, CreateTKEEdgeCluster, DescribeClusters, DescribeTKEEdgeClusters.

Name	Type	Required	Description
ResourceType	String	No	The type of resource that the tag is bound to. The type currently supported is <code>cluster</code> .
Tags	Array of Tag	No	List of tag pairs

Taint

Kubernetes Taint

Used by actions: AddExistedInstances, CreateCluster, CreateClusterInstances, CreateClusterNodePool, CreateClusterVirtualNodePool, DescribeClusterInstances, DescribeClusterNodePoolDetail, DescribeClusterNodePools, DescribeClusterVirtualNodePools, ModifyClusterNodePool, ModifyClusterVirtualNodePool, UpgradeClusterInstances.

Name	Type	Required	Description
Key	String	No	Key of the taint
Value	String	No	Value of the taint
Effect	String	No	Effect of the taint

TaskStepInfo

Task step information

Used by actions: GetUpgradeInstanceProgress.

Name	Type	Description
Step	String	Step name
LifeState	String	Lifecycle pending: the step is not started running: the step is in progress success: the step is completed failed: the step failed
StartAt	String	Step start time Note: this field may return <code>null</code> , indicating that no valid value is obtained.
EndAt	String	Step end time Note: this field may return <code>null</code> , indicating that no valid value is obtained.
FailedMsg	String	If the lifecycle of the step is failed, this field will display the error information. Note: this field may return <code>null</code> , indicating that no valid value is obtained.

UnavailableReason

Reason for unavailability

Used by actions: CheckInstancesUpgradeAble.

Name	Type	Description
InstanceId	String	Instance ID Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Reason	String	Reason Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

UpgradeAbleInstancesItem

Upgradeable node information

Used by actions: CheckInstancesUpgradeAble.

Name	Type	Description
InstanceId	String	Node ID
Version	String	The current version of the node
LatestVersion	String	The latest minor version of the current version Note: this field may return <code>null</code> , indicating that no valid value is obtained.
RuntimeVersion	String	RuntimeVersion
RuntimeLatestVersion	String	RuntimeLatestVersion

UpgradeNodeResetParam

Node upgrade and reinstallation parameters

Used by actions: UpgradeClusterInstances.

Name	Type	Required	Description
InstanceAdvancedSettings	InstanceAdvancedSettings	No	Additional parameters set for the instance
EnhancedService	EnhancedService	No	Enhanced services. You can use this parameter to specify whether to enable services such as Cloud Security and Cloud Monitor. If this

			parameter is not specified, Cloud Monitor and Cloud Security will be enabled by default.
LoginSettings	LoginSettings	No	Node login information. For now, it only supports Password or a single KeyIds
SecurityGroupIds	Array of String	No	Security group to which the instance belongs. This parameter can be obtained from the <code>sgId</code> field in the response of <code>DescribeSecurityGroups</code> . If this parameter is not specified, the default security group is bound. (Currently, you can only set a single sglId.)

VersionInstance

Version Info

Used by actions: DescribeVersions.

Name	Type	Description
Name	String	Version name Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Version	String	Version Info Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
Remark	String	Remark Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

VirtualNode

Virtual node

Used by actions: DescribeClusterVirtualNode.

Name	Type	Description

Name	String	Virtual node name
SubnetId	String	Subnet of the virtual node
Phase	String	Virtual node status
CreatedTime	String	Creation time Note: This field may return null, indicating that no valid values can be obtained.

VirtualNodePool

Virtual node pool

Used by actions: DescribeClusterVirtualNodePools.

Name	Type	Description
NodePoolId	String	Node pool ID
SubnetIds	Array of String	List of subnets Note: This field may return null, indicating that no valid values can be obtained.
Name	String	Node pool name
LifeState	String	Node pool lifecycle status
Labels	Array of Label	Virtual node labels Note: This field may return null, indicating that no valid values can be obtained.
Taints	Array of Taint	Virtual node taint Note: This field may return null, indicating that no valid values can be obtained.

VirtualNodeSpec

Virtual node

Used by actions: CreateClusterVirtualNode, CreateClusterVirtualNodePool.

Name	Type	Required	Description
DisplayName	String	Yes	Node display name

SubnetId	String	Yes	Subnet ID
Tags	Array of Tag	No	Tencent Cloud tags

Error Codes

Last updated : 2024-07-19 16:13:17

Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	Authorization in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
FailedOperation.AccountCommon	Failed to obtain user authentication information.
FailedOperation.AccountUserNotAuthenticated	The account is not verified.
FailedOperation.AsCommon	An error occurs while creating scaling group resources.
FailedOperation.CamNoAuth	Not authorized to access this API
FailedOperation.ClusterForbiddenToDelete	The cluster cannot be deleted.
FailedOperation.ClusterNotFound	The cluster is not found.
FailedOperation.ClusterState	Cluster status error.
FailedOperation.ClusterUpgradeNodeVersion	The version of the cluster node is too old.
FailedOperation.ComponentClientCommon	Internal client error.

FailedOperation.ComponentClientHttp	Internal HTTP client error.
FailedOperation.ComponentClientUnpack	Internal HTTP decapsulation failed.
FailedOperation.ComponentClientHttp	Failed to request (HTTP request) other Tencent Cloud services.
FailedOperation.CvmCommon	Failed to create the node due to a CVM error
FailedOperation.CvmNumberNotMatch	Some of the specified CVMs are not found.
FailedOperation.CvmVpcidNotMatch	The CVM does not match the VPC ID.
FailedOperation.Db	Database error.
FailedOperation.DbRecordNotFound	Record not found.
FailedOperation.DfwGetUSGQuota	Failed to obtain security group quota.
FailedOperation.EnableVPCCNIFailed	Failed to enable the VPC-CNI mode.
FailedOperation.KubeClientConnection	Failed to connect to the customer Kubernetes cluster.
FailedOperation.KubeCommon	Kubernetes API error.
FailedOperation.KubernetesClientBuildError	Failed to create the Kubernetes client.
FailedOperation.KubernetesCreateOperationError	An error occurs while creating the cluster client.
FailedOperation.KubernetesGetOperationError	
FailedOperation.KubernetesInternal	Unknown Kubernetes error.
FailedOperation.KubernetesListOperationError	Failed to obtain the kubernetes resource list.
FailedOperation.LbCommon	An unknown error occurs while calling the underlying CLB.
FailedOperation.NetworkScaleError	Network extension error.
FailedOperation.NodeExistsSecondaryNetworkInterface	The node has a secondary ENI.
FailedOperation.OsNotSupport	The image OS is not supported.
FailedOperation.Param	Invalid parameter.
FailedOperation.PolicyServerCommonError	GPE error.

FailedOperation.QuotaMaxClsLimit	Reached the quota limit.
FailedOperation.QuotaMaxNodLimit	Reached the quota limit.
FailedOperation.QuotaUSGLimit	Insufficient security group quota.
FailedOperation.RBACForbidden	The sub-account does not have the required RBAC permissions.
FailedOperation.RecordNotFound	Record not found.
FailedOperation.TaskAlreadyRunning	A same task is in progress.
FailedOperation.TaskLifeStateError	This operation is not supported when the task is in the current status.
FailedOperation.TradeCommon	Query failed.
FailedOperation.UnexpectedError	Unexpected error.
FailedOperation.VPCUnexpectedError	Unknown VPC error.
FailedOperation.VpcCommon	VPC error.
FailedOperation.VpcRecodrNotFound	VPC record not found.
FailedOperation.WhitelistUnexpectedError	Allowlist error.
InternalError.AccountCommon	Failed to obtain the user authentication information
InternalError.AccountUserNotAuthenticated	Account not verified.
InternalError.AsCommon	Error creating scaling group resource.
InternalError.CamNoAuth	You do not have permissions.
InternalError.CidrConflictWithOtherCluster	CIDR conflicts with the CIDR of another cluster.
InternalError.CidrConflictWithOtherRoute	CIDR conflicts with another route.
InternalError.CidrConflictWithVpcCidr	CIDR conflicts with VPC.
InternalError.CidrConflictWithVpcGlobalRoute	CIDR conflicts with global route.
InternalError.CidrInvalid	Invalid CIDR.
InternalError.CidrMaskSizeOutOfRange	Invalid CIDR mask.
InternalError.ClusterNotFound	Cluster not found.

InternalError.ClusterState	Cluster status error.
InternalError.ClusterUpgradeNodeVersion	The version of the cluster node is outdated.
InternalError.CmdTimeout	Command execution timeout.
InternalError.ComponentClientHttp	Internal HTTP client error
InternalError.ComponentClientHttp	Error while requesting (HTTP) other Tencent Cloud services
InternalError.CreateMasterFailed	Failed to create cluster.
InternalError.CvmCommon	Error in node creation.
InternalError.CvmNotFound	CVM does not exist.
InternalError.CvmNumberNotMatch	Some of the CVMs cannot be found
InternalError.CvmStatus	Exceptional CVM status.
InternalError.Db	DB error.
InternalError.DbAffectedRows	Database error.
InternalError.DbRecordNotFound	Record not found.
InternalError.DfwGetUSGCount	Failed to obtain total number of current security groups.
InternalError.DfwGetUSGQuota	Failed to obtain security group quota.
InternalError.EmptyClusterNotSupport	Empty clusters are not supported.
InternalError.ImageIdNotFound	Image not found.
InternalError.InitMasterFailed	Failed to initialize Master.
InternalError.InvalidPrivateNetworkCidr	Invalid CIDR.
InternalError.KubeClientConnection	Failed to connect to the user's Kubernetes cluster.
InternalError.KubeCommon	Kubernetes API error.
InternalError.KubernetesClientBuildError	Failed to create the kubernetes client.
InternalError.KubernetesCreateOperationError	Failed to create the kubernetes resource.
InternalError.KubernetesDeleteOperationError	Failed to delete the kubernetes resource.

InternalError.KubernetesGetOperationError	Failed to obtain the kubernetes resources
InternalError.KubernetesInternal	Unknown Kubernetes error
InternalError.KubernetesListOperationError	Failed to obtain the kubernetes resource list.
InternalError.KubernetesPatchOperationError	Kubernetes Patch operation failed.
InternalError.LbCommon	An error occurs while calling the underlying CLB
InternalError.OsNotSupport	Image OS not supported.
InternalError.Param	Parameter error.
InternalError.PodNotFound	Pod not found
InternalError.PublicClusterOpNotSupport	Cluster does not support the current operation.
InternalError.QuotaMaxCIsLimit	Quota limit exceeded.
InternalError.QuotaMaxNodLimit	Quota limit exceeded.
InternalError.QuotaMaxRtLimit	Quota limit exceeded.
InternalError.QuotaUSGLimit	Insufficient security group quota.
InternalError.ResourceExistAlready	Resource already exists.
InternalError.RouteTableNotEmpty	Route table is not empty.
InternalError.RouteTableNotFound	Route table does not exist.
InternalError.TaskAlreadyRunning	A same task is in progress.
InternalError.TaskCreateFailed	Failed to create the task.
InternalError.TaskLifeStateError	The task in the current state does not support this operation.
InternalError.TaskNotFound	No task found
InternalError.TradeCommon	Query failed
InternalError.TradeInsufficientBalance	Insufficient account balance.
InternalError.UnexceptedInternal	Internal error.
InternalError.UnexpectedInternal	Unknown internal error.
InternalError.VPCUnexpectedError	Unknown VPC error

InternalError.VpcCommon	VPC error
InternalError.VpcPeerNotFound	Peering connection does not exist
InternalError.VpcRecodrNotFound	VPC record not found
InternalError.VstationError	VstationError.
InternalError.WhitelistUnexpectedError	Unknown allowlist error
InvalidParameter.AsCommonError	Auto scaling group creation parameter error.
InvalidParameter.CIDRInvalid	Invalid CIDR block.
InvalidParameter.CIDRMaskSizeOutOfRange	Invalid CIDR block mask (valid range: 10 to 24).
InvalidParameter.CidrConflictWithOtherCluster	The CIDR block conflicts with the CIDR blocks of other clusters.
InvalidParameter.CidrConflictWithOtherRoute	The route to create conflicts with existing routes.
InvalidParameter.CidrConflictWithVpcCidr	The CIDR block conflicts with the VPC's CIDR block.
InvalidParameter.CidrConflictWithVpcGlobalRoute	The created route conflicts with the existing global route under the VPC.
InvalidParameter.CidrInvali	Invalid CIDR block.
InvalidParameter.CidrInvalid	Parameter error. The CIDR block does not meet the specification.
InvalidParameter.CidrOutOfRouteTable	The CIDR block is not in the route table.
InvalidParameter.ClusterNotFound	The cluster ID does not exist.
InvalidParameter.GatewayAlreadyAssociatedCidr	Next hop address is already associated with a CIDR block.
InvalidParameter.InvalidPrivateNetworkCIDR	Invalid private CIDR block.
InvalidParameter.OsNotSupport	The iage OS is not supported.
InvalidParameter.Param	Invalid parameter.
InvalidParameter.PromInstanceNotFound	The PROM instance does not exist.
InvalidParameter.RouteTableNotEmpty	Route table is not empty.

InvalidParameter.SubnetInvalidError	Invalid subnet.
InvalidParameter.SubnetNotExist	The subnet does not exist.
OperationDenied	Operation denied.
OperationDenied.ClusterInDeletionProtection	The cluster is under deletion protection and cannot be deleted.
ResourceInUse.ExistRunningPod	A running Pod exists.
ResourceInUse.ResourceExistAlready	The resource already exists.
ResourceInUse.SubnetAlreadyExist	The subnet already exists.
ResourceInsufficient.SpecifiedInstanceType	Insufficient CVM resources.
ResourceNotFound.AsAsgNotExist	The scaling group does not exist.
ResourceNotFound.ClusterNotFound	The cluster does not exist.
ResourceNotFound.KubeResourceNotFound	The specified resource is not found in the Kubernetes cluster.
ResourceNotFound.KubernetesResourceNotFound	The kubernetes resource does not exist.
ResourceUnavailable.ClusterInAbnormalStat	Abnormal cluster status.
ResourceUnavailable.ClusterState	The cluster's status does support this operation.
ResourceUnavailable.NodePoolStateNotNormal	The node pool is in an abnormal status.
UnauthorizedOperation.CamNoAuth	The API has no CAM permissions.
UnsupportedOperation.CaEnableFailed	Failed to enable CA because AS is disabled.
UnsupportedOperation.ClusterNotSuitEnableVPCCNI	The VPC-CNI mode is not supported.
UnsupportedOperation.NotInWhitelist	The user is not in the allowlist.
UnsupportedOperation.NotSupportInstallVirtualKubelet	Virtual nodes cannot be installed.

API Mapping Guide

Last updated : 2022-05-18 16:09:36

Tencent Kubernetes Engine (TKE) API 2.0 is being deprecated at the end of March 2020. Please use [TKE API 3.0](#) instead. 3.0 further standardizes interface definition and reduces access latency. The following is a reference table that shows the relationships between modules in the 2.0 and 3.0 APIs.

Note :

Part of the TKE API 3.0 and Kubernetes API documentation will be released soon. Keep an eye on our documentation pages for changes.

Module	API 2.0	API 3.0
Cluster	Creates a cluster (CreateCluster)	Creates a cluster (CreateCluster)
	Deletes a cluster (DeleteCluster)	Deletes a cluster (DeleteCluster)
	Queries a list of clusters (DescribeCluster)	Queries a list of clusters (DescribeCluster)
	Adds nodes to a cluster (AddClusterInstances)	Adds nodes to a cluster (AddClusterInstances)
	Adds existing CVM instances to a cluster (AddClusterInstancesFromExistedCvm)	Adds existing instances to a cluster (AddExistedInstances)
	Deletes nodes from a cluster (DeleteClusterInstances)	Deletes nodes from a cluster (DeleteClusterInstances)
	Queries a list of nodes in a cluster (DescribeClusterInstances)	Queries a list of nodes in a cluster and their details (DescribeClusterInstances)
	Queries information on access to a cluster from a public network (DescribeClusterSecurityInfo)	Queries information on access to a cluster and related security settings (DescribeClusterSecurity)
	Verifies the CIDR block (CheckClusterCIDR)	Checks to see if the CIDR block conflicts with the CIDR blocks of existing clusters (CheckClusterCIDR)
	Queries a list of instances in a cluster (DescribeExistedCvmForAddClusterInstances)	Queries a list of existing nodes (DescribeExistedInstances)

	Queries cluster Request and Limit information (DescribeClusterRequestLimitInfo)	Kubernetes APIs
	Modifies node label (ModifyClusterNodeLabel)	
	Modifies cluster attributes (ModifyClusterAttributes)	Modifies cluster attributes (ModifyClusterAttribute)
	Modifies the project to which the cluster belongs (ModifyProjectId)	
	Modifies cluster namespace description (ModifyNamespaceDescription)	Kubernetes API
	- Creates or removes cluster VIP (OperateClusterVip) - Queries async task result (DescribeClusterTaskResult)	- Creates managed cluster public network access port (CreateClusterEndpointVip) - Deletes managed cluster public network access port (DeleteClusterEndpointVip) - Queries the status of the managed cluster public network access port (DescribeClusterEndpointVipStatus) - Modifies the security group to which the managed cluster public network access port belongs (ModifyClusterEndpointSecurityGroup)
	Drains cluster nodes (DrainClusterNode)	Drains nodes (DrainClusterNode)
	Modifies the schedulable setting of a cluster node (ModifyClusterNodeSchedulable)	Kubernetes API
	Adds private third-party image hub (AddHubInfo)	Deprecated
	Queries cluster third-party image hub (DescribeHubInfo)	
Cluster Auto Scaling	Creates a cluster auto scaling group (CreateClusterAsg)	-
	Enables a cluster auto scaling group (EnableClusterAsg)	Modifies the attributes of a cluster auto scaling group (ModifyClusterAutoScalingGroupAttribute)
	Queries a list of cluster auto scaling groups	Queries a list of auto scaling groups

	(DescribeClusterAsg)	associated with the cluster (DescribeClusterAsGroups)
	Modifies the scale down setting of a cluster auto scaling group (ModifyClusterAsgScaleDown)	Modifies the scaling attribute of a cluster auto scaling group (ModifyClusterAsGroupOptionAttribute)
	Modifies the label of a cluster auto scaling group (ModifyClusterAsgLabel)	Deprecated
	Resets the label of a cluster auto scaling group (ResetClusterAsgLabel)	
	Deletes the label of a cluster auto scaling group (DeleteClusterAsgLabel)	
	Disables a cluster auto scaling group (DisableClusterAsg)	Modifies the attributes of a cluster auto scaling group (ModifyClusterAsGroupAttribute)
	Deletes a cluster auto scaling group (DeleteClusterAsg)	Deletes a cluster auto scaling group (DeleteClusterAsGroups)
Service	Creates a cluster service (CreateClusterService)	Kubernetes API
	Queries a list of cluster services (DescribeClusterService)	
	Queries the detail information of a cluster service (DescribeClusterServiceInfo)	
	Queries a list of service events (DescribeServiceEvent)	
	Queries the YAML file of a cluster service (DescribeClusterServiceText)	
	Modifies a cluster service (ModifyClusterService)	
	Modifies the description of a service (ModifyServiceDescription)	
	Modifies the image of a cluster service (ModifyClusterServiceImage)	
	Modifies the label of a service	

	(ModifyServiceLabels)	
	Cluster rollback service (RollBackClusterService)	
	Redeploys a cluster service (RedeployClusterService)	
	Pauses a cluster service (PauseClusterService)	
	Resumes a cluster service (ResumeClusterService)	
	Deletes a cluster service (DeleteClusterService)	
Service Instance	Queries a list of service instances (DescribeServiceInstance)	
	Modifies the number of service replicas (ModifyServiceReplicas)	
	Queries service instance logs (DescribeInstanceLog)	
	Deletes a service instance (DeleteInstances)	
Namespace	Queries cluster namespaces (DescribeClusterNameSpaces)	
	Creates a cluster namespace (CreateClusterNamespace)	
	Deletes a cluster namespace (DeleteClusterNamespace)	
Ingress	Creates an ingress (CreateIngress)	
	Queries a list of ingresses (DescribeIngress)	
	Modifies an ingress (MosifyIngress)	
	Deletes an ingress (DeleteIngress)	
Log	Enables logging (GetLogDaemonStatus)	Deprecated
	Creates cluster log collection policies (CreateLogCollector)	

		Lists log collection policies (ListLogCollector)	
		Updates log collection policies (UpdateLogCollector)	
		Gets log collector information (GetLogCollector)	
		Gets the status of log collectors (GetLogDaemonStatus)	
		Checks the names of log collectors (CheckIfLogCollectorName)	
		Deletes log collection policies (DeleteLogCollector)	
Monitor		Gets container service monitor data (GetMonitorData)	• Container service - pod metrics monitoring (GetMonitorData) • Container service - container metrics monitoring (GetMonitorData) • Container service - service metrics monitoring (GetMonitorData)
Image Hub	User and Password Management	Registers a user (without specifying a namespace) (RegisterRepositoryAccountNew)	Creates an individual user (CreateUserPersonal)
		Queries user quota (GetLimit)	Queries individual user quota (DescribeUserQuotaPersonal)
		Modifies password (ChangePassword)	Modifies individual user login password (ModifyUserPasswordPersonal)
	Namespace	Creates namespace (CreateCCRNamespace)	Creates namespace (CreateNamespacePersonal)
		Queries namespace (GetNamespaceInfo)	Queries namespace (DescribeNamespacePersonal)
		Queries the namespace existence (NamespacesExist)	Queries the namespace existence (ValidateNamespaceExistPersonal)
		Deletes namespace (DeleteUserNamespace)	Deletes namespace (DeleteNamespacePersonal)
	Image Repository	Creates image repository (CreateRepository)	Creates image repository (CreateRepositoryPersonal)

		Queries image repository information (GetRepositoryInfo)	Queries image repository (DescribeRepositoryPersonal)
		-	Deletes image repository (DeleteRepositoryPersonal)
		Deletes repositories in batches (BatchDeleteRepository)	Deletes repositories in batches (BatchDeleteRepositoryPersonal)
		Checks if the image repository exists (RepositoryExists)	Checks if the image repository exist (ValidateRepositoryExistPersonal)
		Gets a list of user repositories (GetUserRepositoryList)	Queries a list of user-created repositories (DescribeRepositoryOwnerPersonal)
		Queries user repositories (SearchUserRepository)	Queries user repositories that fits certain criteria (DescribeRepositoryFilterPersonal)
		Updates image repository access attributes (UpdateRepositoryPublic)	Modifies image repository public attributes (ModifyRepositoryAccessPersonal)
		Modifies image repository description (UpdateRepositoryDesc)	Modifies image repository description (ModifyRepositoryInfoPersonal)
	Image Repository	Gets a list of tags (GetTagList)	Queries image version (DescribeImagePersonal)
		-	Queries image version using certain criteria (DescribeImageFilterPersonal)
		-	Deletes image version (DeleteImagePersonal)
		Deletes tags in batches (BatchDeleteTag)	Deletes image version in batches (BatchDeleteImagePersonal)
		Duplicates image version (DuplicateImage)	Duplicates image version (DuplicateImagePersonal)
		Sets repository tag auto delete strategy (SetAutoDelStrategy)	Creates image version lifecycle configuration (CreateImageLifecyclePersonal)
		Gets repository tag auto delete strategy (GetAutoDelStrategy)	Queries image version lifecycle configuration (DescribeImageLifecyclePersonal)

		Disables repository tag auto delete strategy (CloseAutoDelStrategy)	Deletes image version lifecycle configuration (DeleteImageLifecyclePersonal)
	Trigger	Adds a trigger (AddUpdateWorkloadTrigger)	Creates an application update trigger (CreateApplicationTriggerPersonal)
		Modifies service update trigger (ModifyUpdateServiceTrigger)	Modifies service update trigger (ModifyApplicationTriggerPersonal)
		Queries triggers (ListTrigger)	Queries application triggers (DescribeApplicationTriggerPersonal)
		Queries trigger logs (ListTriggerLog)	Queries application update trigger logs (DescribeApplicationTriggerLogPersonal)