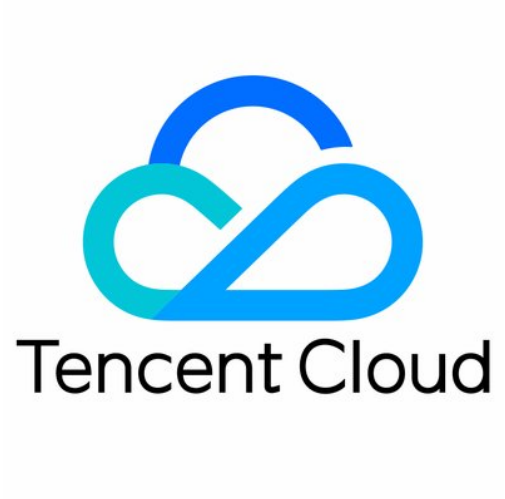
Tencent Kubernetes Engine

API

Product Introduction



Contents

API Overview

Last updated：2018-07-16 19:11:27

1. Cluster Related APIs

Function	Action ID	Description
Query Cluster List	DescribeCluster	Query cluster list
Create Cluster	CreateCluster	Create cluster
Delete Cluster	DeleteCluster	Delete cluster
Query Cluster Node List	DescribeClusterInstances	Query cluster nodes and return information of the nodes in the cluster
Add Cluster Node	AddClusterInstances	Add nodes for cluster
Delete Cluster Node	DeleteClusterInstances	Delete nodes in the cluster
Add Existing CVM to Cluster	AddClusterInstancesFromExistedCvm	Add existing CVMs to cluster

2. Service Related APIs

Function	Action ID	Description
Query Service List	DescribeClusterService	Query service list. Lists returned from this API only include general information of the services
Query Service Details	DescribeClusterServiceInfo	Query detailed information of a single service
Create Service	CreateClusterService	Create service
Modify Service	ModifyClusterService	Update service

Function	Action ID	Description
Delete Service	DeleteClusterService	Delete service
Modify Service Description	ModifyServiceDescription	Modify service description
Acquire Service Event List	DescribeServiceEvent	Query list of events occurred for the service within the last hour
Resume Service Update	ResumeClusterService	Resume paused service update operation
Pause Service Update	PauseClusterService	Pause service update operation
Rollback Service	RollBackClusterService	Restore the service back to the configuration prior to update (to the previous configuration only)

3. Pod Related APIs

Function	Action ID	Description
Query Pod List	DescribeServiceInstance	Query the list of service pods
Modify Pod Number	ModifyServiceReplicas	Modify the number of containers for the service
Delete Pod	DeleteInstances	Delete pods

4. Namespace Related APIs

Function	Action ID	Description
Query Cluster Namespace	DescribeClusterNameSpaces	Query cluster namespaces
Create Cluster Namespace	CreateClusterNamespace	Create namespaces
Delete Cluster Namespace	DeleteClusterNamespace	Delete namespaces

Calling Method
Request Structure
Common Request Parameters

Last updated：2017-12-11 15:45:35

Common request parameters are the request parameters that are used by every API. Unless it is necessary, these parameters will not be described in the separate documents for each API. However, they need to be included in each request. The first letter of common request parameters are capitalized, to distinguish them from API request parameters.

Common request parameters are listed below:

Parameter	Required	Description	Type
Action	Yes	The API name to be called. For example, if you want to call the DescribeInstances API, then the Action parameter is DescribeInstances.	String
Region	No	This parameter indicates the region you want to operate the instances. The values for the region parameter are: Beijing:ap-beijing, Guangzhou:ap-guangzhou, Shanghai:ap-shanghai, Hong Kong:ap-hongkong, Toronto:na-toronto, Silicon Valley:na-siliconvalley, Singapore:ap-singapore, Shanghai Finance:ap-shanghai-fsi, Shenzhen Finance:ap-shenzhen-fsi, Guangzhou open zone: ap-guangzhou-open Click to view all Regions and Availability Zones , click to view DescribeRegions API introduce。 **Note: 1. This parameter is required fot most cases. If it is not required, we will state that in the corresponding API doc. 2. Some regions are in trial period and only open for authorized users.**	String
Timestamp	Yes	Current UNIX timestamp, which records the time when an API request is originated.	UInt
Nonce	Yes	A random positive integer, used in conjunction with timestamp to prevent playback attacks.	UInt
SecretId	Yes	The SecretId that indicates the identity requested on the Cloud API key. A SecretId corresponds to a unique SecretKey, which is used to generate a request signature. For details, refer to the Signature Mode page.	String

Signature	Yes	Request signature, used to verify the legitimacy of the request, the system automatically generated based on input parameters. For details, refer to the Signature Mode page.	String

For example, if you want to query the CVM instance list in Guangzhou, the request link should be:

```
https://cvm.api.qcloud.com/v2/index.php?
Action=DescribeInstances
&SecretId=xxxxxxx
&Region=ap-guangzhou
&Timestamp=1465055529
&Nonce=59485
&Signature=mysignature
&<API request parameters>
```

A complete request requires two types of request parameters: public request parameters and API request parameters. Only the aforementioned six public request parameters are listed here. For more information about API request parameters, refer to the API request parameters section.

Returned Results
Result for Failed Requests

Last updated：2017-12-15 16:33:37

If the API call fails, the error code is not 0, and the message field displays error details. You can query specific error information based on the codes and message fields on the Error codes page.
Example of a returned error:

```
{
"code": 5100,
"message": "(100004) projectId is incorrect",
}
```

Signature

Last updated：2018-07-06 17:40:39

Tencent Cloud API will authenticate each access request, so each request is required to include the signature information in the common request parameter for user authentication. The Signature is generated with the user's security credential, which consists of a SecretId and a SecretKey. Users who have no security credential can apply for a credential on the Tencent Cloud. Otherwise, the Cloud API cannot be called.

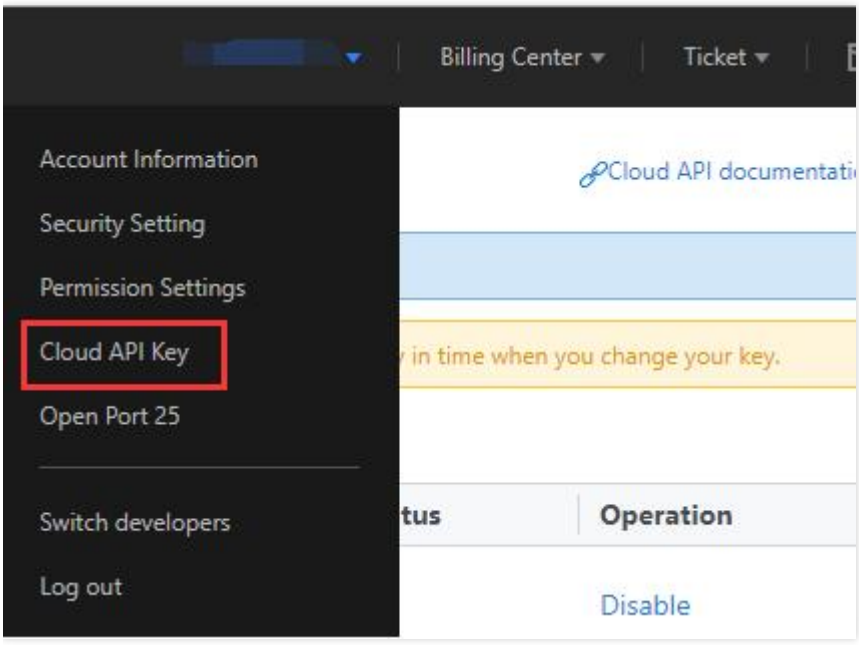
1. Applying for Security Credential

Before using the Cloud API for the first time, a user needs to apply for a security credential on the Tencent Cloud CVM console. A security credential consists of a SecretId, which identifies the API caller, and a SecretKey, which is used to encrypt the signature string and verify the signature string on the server. Users must strictly keep their SecretKeys confidential to avoid disclosure.

To apply for a security credential, please proceed as follows:

1) Log in to the Tencent Cloud Console.

2) Select account name in the top right corner on the navigation bar, and choose "Cloud API Key" in the drop-down box to access the Cloud API key management page.



3) On the Cloud API Key Management page, click "New" to create a pair of SecretId/SecretKey. Each account can have two pairs of SecretId/SecretKey at most.

2. Generating Signature String

With the SecretID and SecretKey, a signature string can be generated. The following is the detailed process for generating a signature string.

If a user has the following SecretId and SecretKey:

```
SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
SecretKey: Gu5t9xGARNpq86cd98joQYCN3Cozk1qA
```

Note: This is just an example. Please proceed with your actual SecretId and SecretKey!
Take Query Instance List (DescribeInstances) as an example. The possible request parameters are as follows when this API is called:

Parameter name	Description	Parameter Value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Indicate the region where the instance is located	gz
instanceIds.0	ID of the instance to be queried	ins-09dx96dg
offset	Offset value	0
limit	Maximum number of output values	20

According to the above table, among the request parameters, there are only 5 common request parameters (Action, SecretId, Timestamp and Nonce), instead of 6 ones as described in "Common Request

Parameters". Actually, Region is not mandatory for CDN, and Signature (the sixth one) is generated from other parameters (including the instruction request parameters) using the following procedure:

2.1. Sorting Parameters

First, sort all request parameters in ascending lexicographical order by their names, just like sorting words in a dictionary in ascending alphabetical order or numerical order. That is to say, sort the parameters by their first letters, and then sort the parameters with the same first letter by their second letters, and so on. You can complete the sorting with the relevant sorting functions in programming language, such as the ksort function in PHP. The sorting result of the above sample parameters is as follows:

```
{
'Action' : 'DescribeInstances',
'Nonce' : 11886,
'Region' : 'gz',
'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA',
'Timestamp' : 1465185768,
'instanceIds.0' : 'ins-09dx96dg',
'limit' : 20,
'offset' : 0,
}
```

Any other programming language can be used to sort these parameters as long as the same result is produced.

2.2. Generating Request String

This step is used to generate a request string.
Format the above sorted parameters as "parameter name=parameter value". Take the parameter "Action" as an example. If the parameter value is "DescribeInstances", the resulting format will be "Action=DescribeInstances".
Note: 1. "Parameter value" is the original value instead of url encoded value. 2. If the input parameter contains an underscore"_", you need to convert it to ".".

Then, joint the formatted parameters together using "&" to generate the final request string:

```
Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx
3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

2.3. Generating Original Signature String

This step is used to generate an original signature string.
The original signature string is composed of the following parameters:

1) Request method: POST and GET methods are supported. In this case, we use a GET request. Note that the method must be in uppercase.
2) Request CVM: The request domain for View List of Instances (DescribeInstances) is cvm.api.qcloud.com. The actual request domain varies depending on the module to which the API belongs. For more information, refer to the descriptions of each API.
3) Request path: The request path of Cloud API is always /v2/index.php.
4) Request string: This is the request string generated in the previous step.

Combination rule of original signature string:

```
Request method + Request CVM +Request path + ? + Request string
```

The combination result is as follows:

```
GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

2.4. Generating Signature String

This step is used to generate a signature string.
Sign the**original signature string**obtained in the previous step using HMAC-SHA1 algorithm, and then encode the signature string using Base64 to obtain the final signature string.

For example, the codes are as follows if written in PHP:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3Cozk1qA';
$srcStr = 'GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature string is as follows:

```
NSI3UqqD99b/UJb4tbG/xZpRW64=
```

When another programming language is used, you can perform the signature verification using the original signature string in the above example as long as the resulting signature string is identical to the one in the example.

3. Encoding Signature String

The generated signature string cannot be directly used as a request parameter, and needs to be encoded with URL encoding.

Note: If the GET method is used, all request parameters need to be encoded with URL encoding.

For example, the signature string generated in the previous step is: NSI3UqqD99b/UJb4tbG/xZpRW64=. When encoded, it should be: NSI3UqqD99b/UJb4tbG/xZpRW64=. The resulting signature string request parameter (Signature) is NSI3UqqD99b/UJb4tbG/xZpRW64=, which will be used to generate the final request URL.

Cluster APIs
Creating Clusters

Last updated：2018-07-23 15:33:24

1. API Description

This API (CreateCluster) is used to create clusters.
Domain name for API request: `ccs.api.qcloud.com` .

- When creating a cluster, you need to specify the number and configuration of nodes (CVMs) in the cluster.
- All nodes in the cluster are HDD cloud disks.
- By default, you can only create 5 clusters with an account. Apply for an increase in your quota by submitting a ticket.
- A cluster can only contain a maximum of 20 nodes. Submit a ticket to request an increase in your quota, which should also be subject to the limit on the total number (Learn more).
- For more information on **limitations on the ratio** of CPU to memory, please see here.
- After a node has been created, you can change the bandwidth using the API UpdateInstanceBandwidthHour. **The public network bandwidth is 0 by default if not specified**.
- Supported node types **(the models purchased in each availability zone are different)**. For more information, please see CVM Instance Configuration:

2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Type	Required
clusterName	Cluster name	String	Yes
clusterDesc	Cluster description	String	No
clusterCIDR	CIDR used to assign cluster containers and service IPs, which should not conflict with VPC CIDR or other cluster CIDRs within the same VPC	String	Yes

Parameter Name	Description	Type	Required
ignoreClusterCIDRConflict	Whether to ignore ClusterCIDR conflict error. Default is 0. 0: Do not ignore (an error is returned) 1: Ignore (continue to create)	Int	No
zoneId	Availability zone. Enter the Zone field returned via the API Query Availability Zone.	String	Yes
goodsNum	The number of nodes purchased. Maximum is 100.	Int	Yes
cpu	Number of CPU cores. For more information on CPU limit, please see above.	Int	Yes
mem	Memory size (in GB). For more information on memory limit, please see above.	Int	Yes
osName	System name. Centos7.2x86_64 or ubuntu16.04.1 LTSx86_64, which is used by all nodes in the cluster and also automatically used for additional nodes.	String	Yes
instanceType	For more information, please see CVM Instance Configuration. Default value: S1.SMALL1	String	No
cvmType	Node type PayByHour: Postpaid (default) PayByMonth: Prepaid	String	No
renewFlag	Prepaid auto renewal flag. Value range: • NOTIFY_AND_AUTO_RENEW: Notify expiry and renew automatically • NOTIFY_AND_MANUAL_RENEW: Notify expiry but not renew automatically • DISABLE_NOTIFY_AND_MANUAL_RENEW: Neither notify expiry nor renew automatically Default: NOTIFY_AND_AUTO_RENEW. If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance is automatically renewed on a monthly basis upon its expiration when the account balance is sufficient. For more information, please see InstanceChargePrepaid.	String	No

Parameter Name	Description	Type	Required
bandwidthType	Bandwidth type Prepaid CVMs: PayByMonth: Bill by bandwidth usage time. PayByTraffic: Bill by traffic Postpaid CVMs: PayByHour: Bill by bandwidth usage time. PayByTraffic: Bill by traffic For more information on the difference between the network billing methods, please see Purchase Network Bandwidth.	String	Yes
bandwidth	Public network bandwidth (in Mbps), or the peak public network bandwidth when bandwidth type is "Bill-by-traffic"	Int	Yes
wanIp	Whether to enable the public IP 0: Do not enable 1: Enable (default) If bandwidth is greater than 0, you're free to choose whether to enable the public IP. If bandwidth is 0, the public IP is not assigned.	Int	No
vpcId	VPC ID. Enter the unVpcId (unified VPC ID) field returned via the API Query VPC List.	String	Yes
subnetId	Subnet ID. Enter the unSubnetId (unified subnet ID) field returned via the API Query Subnet List.	String	Yes
isVpcGateway	Whether the Public Gateway is used. The public gateway can be used only when it has a public IP and resides in VPC. 0: Non-public gateway 1: Public gateway	Int	Yes
rootSize	System disk size. For Linux, the value range is 20 to 50 GB, and the increment is 1 GB.	Int	Yes
rootType	Type of system disk. For more information on the limits of system disk type, please see CVM Instance Configuration. Value range: • LOCAL_BASIC: Local disk • LOCAL_SSD: Local SSD disk • CLOUD_BASIC: HDD cloud disk • CLOUD_SSD: SSD cloud disk Default: CLOUD_BASIC.	String	No

Parameter Name	Description	Type	Required
storageSize	Data disk size (in GB). The increment is 10. 0 means that no data disk is needed. For information on the maximum disk size, please see Overview of Data Disk Products.	Int	Yes
storageType	Type of data disk. For more information on the limits of data disk type, please see CVM Instance Configuration. Value range: • LOCAL_BASIC: Local disk • LOCAL_SSD: Local SSD disk • CLOUD_BASIC: HDD cloud disk • CLOUD_PREMIUM: Premium cloud storage • CLOUD_SSD: SSD cloud disk Default: CLOUD_BASIC.	String	No
password	Node password. It is generated randomly if not set, and is sent via internal message. The node password must be a combination of 8-16 characters comprised of at least two of the following types: [a-z, A-Z], [0-9] and [( ) & # 96; ~ ! @ # $ % ^ & * - + = & #124; { } [ ] : ; ' < >, . ? /]	String	No
keyId	Key ID. You can use the key to log in to the node after the key is associated. "keyId" can be obtained via the API Query Key. Key and password cannot be specified at the same time, and specifying key is not allowed in Windows.	String	No
period	Usage period purchased for a prepaid node (in month). When cvmType is PayByMonth, this parameter is required.	Int	No
sgId	Security group ID. No security group is associated by default. Enter the sgId field returned via the API Query Security Group List.	String	No
masterSubnetId	Cluster master occupies the IP of a VPC subnet. This parameter specifies the subnet in which the IP occupied by Master resides. The subnet must be located in the same VPC as the cluster.	String	No

3. Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed. For more information, please see Returned Failure Result.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API. For more information, please see Returned Failure Result.	String
requestId	Task ID	Int
clusterId	Cluster ID	Int

4. Example

Input

```
https://domain/v2/index.php?Action=CreateCluster
&imageId=1
&bandwidth=1
&cpu=1
&mem=2
&storageType=1
&storageSize=50
&goodsNum=1
&zoneId=1
&vpcId=vpc-8e0ypm3z
&subnetId=subnet-3lzrkspo
&other common parameters
```

Output

```
{
"code" : 0,
"message" : "ok",
"codeDesc": "Success",
"data":{
"clusterId":"cluster-xxxx",
```

```
"requestId":11333
}

}
```

Adding Cluster Nodes

Last updated：2018-08-23 11:42:01

1. API Description

This API (AddClusterInstances) is used to add nodes for a cluster.
Domain name for API request: ccs.api.qcloud.com .

- This API can be called only when the status of a cluster is Running.
- vpcId is required when you create a cluster. To add a node (CVM), you only need to pass subnetId.
- All nodes under a cluster share the same operating system name (osName). You do not need to specify another name.
- All nodes in the cluster are HDD cloud disks.
- A cluster can only contain a maximum of 20 nodes. Submit a ticket to request an increase in your quota, which should also be subject to the limit on the total number as described in the Restrictions on CVM Instance Purchase.
- For more information on **limitations on the ratio** of CPU to memory, please see CVM Instance Configuration.
- After a node has been created, you can change the bandwidth using the API UpdateInstanceBandwidthHour. **The public network bandwidth is 0 by default if not specified**.
- Supported node types **(the models purchased in each availability zone are different)**. For more information, please see CVM Instance Configuration.

2. Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Type	Required
clusterId	Cluster ID. Enter the clusterId field returned via the API Query Cluster List.	String	Yes
clusterDesc	Cluster description	String	No
zoneId	Availability zone. Enter the Zone field returned via the API Query Availability Zone.	String	Yes

Parameter Name	Description	Type	Required
cpu	Number of CPU cores. For more information on CPU limit, please see above.	Int	Yes
mem	Memory size (in GB). For more information on memory limit, please see above.	Int	Yes
instanceType	For more information, please see CVM Instance Configuration. Default value: S1.SMALL1	String	No
cvmType	CVM type. PayByHour: Postpaid (default) PayByMonth: Prepaid	String	No
renewFlag	Prepaid auto renewal flag. Value range: • NOTIFY_AND_AUTO_RENEW: Notify expiry and renew automatically • NOTIFY_AND_MANUAL_RENEW: Notify expiry but not renew automatically • DISABLE_NOTIFY_AND_MANUAL_RENEW: Neither notify expiry nor renew automatically Default: NOTIFY_AND_AUTO_RENEW. If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance is automatically renewed on a monthly basis upon its expiration when the account balance is sufficient. For more information, please see InstanceChargePrepaid.	String	No
bandwidthType	Bandwidth type Prepaid CVMs: PayByMonth: Bill by bandwidth usage time. PayByTraffic: Bill by traffic Postpaid CVMs: PayByHour: Bill by bandwidth usage time. PayByTraffic: Bill by traffic For more information on the difference between the network billing methods, please see Purchase Network Bandwidth.	String	Yes
bandwidth	Public network bandwidth (in Mbps), or the peak public network bandwidth when bandwidth type is "Bill-by-traffic"	Int	Yes

Parameter Name	Description	Type	Required
wanIp	Whether to enable the public IP 0: Do not enable 1: Enable (default) If bandwidth is greater than 0, you're free to choose whether to enable the public IP. If bandwidth is 0, the public IP is not assigned.	Int	No
subnetId	Subnet ID. Enter the unSubnetId (unified subnet ID) field returned via the API Query Subnet List.	String	Yes
isVpcGateway	Whether the Public Gateway is used. The public gateway can be used only when it has a public IP and resides in VPC. 0: Non-public gateway 1: Public gateway	Int	Yes
storageSize	Data disk size (in GB). The increment is 10. 0 means that no data disk is needed. For information on the maximum disk size, please see Overview of Data Disk Products.	Int	Yes
storageType	Type of data disk. For more information on the limits of data disk type, please see CVM Instance Configuration. Value range: • LOCAL_BASIC: Local disk • LOCAL_SSD: Local SSD disk • CLOUD_BASIC: HDD cloud disk • CLOUD_PREMIUM: Premium cloud storage • CLOUD_SSD: SSD cloud disk Default: CLOUD_BASIC.	String	No
rootSize	System disk size (in GB). For Linux, the value range is 20 to 50 GB, and the increment is 1 GB.	Int	Yes
rootType	Type of system disk. For more information on the limits of system disk type, please see CVM Instance Configuration. Value range: • LOCAL_BASIC: Local disk • LOCAL_SSD: Local SSD disk • CLOUD_BASIC: HDD cloud disk • CLOUD_SSD: SSD cloud disk Default: CLOUD_BASIC.	String	No

Parameter Name	Description	Type	Required
goodsNum	The number of nodes purchased. Default is 1, and maximum is 100.	Int	Yes
password	Node password. It is generated randomly if not set, and is sent via internal message. The password must be a combination of 8-16 characters comprised of at least two of the following types: [a-z, A-Z], [0-9] and [( ) & # 96; ~ ! @ # $ % ^ & * - + = & #124; { } [ ] : ; ' < >, . ? /]	String	No
keyId	Key ID. You can use the key to log in to the node after the key is associated. "keyId" can be obtained via the API Query Key. Key and password cannot be specified at the same time, and specifying key is not allowed in Windows.	String	No
period	Usage period purchased for a prepaid node (in month). When cvmType is PayByMonth, this parameter is required.	Int	No
sgId	Security group ID. No security group is associated by default. Enter the sgId field returned via the API Query Security Group List.	String	No

3. Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String
instanceIds	ID of the created node	Int
requestId	Task ID	Int

4. Example

Input

```
https://domain/v2/index.php?Action=AddClusterInstances
&clusterId=clus-xxxxx
&expandInstanceNum=1
&other common parameters
```

Output

```
{
"code" : 0,
"message" : "ok",
"codeDesc": "Success",
"data":{
"instanceIds":["ins-xxxxxx","ins-xxxxxx"],
"requestId":11333
}
}
```

Adding Existing CVMs to the Clusters

Last updated：2018-06-13 14:54:26

1. API Description

This API (AddClusterInstancesFromExistedCvm) is used to add existing CVMs to a cluster.

Domain for API request: ccs.api.qcloud.com

- This API can be called only when "status" of cluster is "Running".
- This API can be called only when the status of current CVM is "Normal" or "Shut down". For more information, please see the list of instance statuses in DescribeInstances API.
- The current CVM will be reinstalled, and the system is the same as the one specified when the cluster is created. Please ensure that there is no important file in the system disk.
- The added CVMs and the current cluster must locate in the same VPC.
- The added CVMs must belong to the default project.

2. Input Parameters

The following request parameter list only provides API request parameters. For other parameters, please see Common Request Parameters.

Parameter Name	Required	Type	Description
clusterId	Yes	String	Cluster ID. You can obtain this ID from the *clusterId* returned by the *DescribeCluster* API.
instanceIds	Yes	String	Enter the unInstanceId (instance ID) field returned via DescribeInstances API .

Parameter Name	Required	Type	Description
password	No	String	Instance password. It will be generated randomly if not set, and be sent via internal message. Linux instance's password should be a combination of 8-16 characters comprised of at least two of the following types: letters [a-z, A-Z], numbers [0-9], and special characters [( ) ` ~ ! @ # $ % ^ & - + = | { } [ ] : ; ' < > , . ? / ]. *Windows instance's password should be a combination of 12-16 characters comprised of at least three of the following types: lowercase letters [a-z], uppercase letters [A-Z], numbers [0-9] and special characters [( ) ` ~ ! @ # $ % ^ &* - + = { } [ ] : ; ' , . ? /].*
keyId	No	String	Key ID. You can use the key to log in to the instance after the key is associated. "keyId" can be obtained through DescribeKeyPairs API. Key and password cannot both be specified, and specifying key is not supported by Windows operating systems.

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: Successful. Other values: Failed
message	String	Module error message description depending on API. For more information, please see Module Error Codes on Error Codes page.
succInstanceIds	Obj Array	List of CVMs added to the cluster successfully
faliInstanceIds	Obj Array	List of CVMs failed to be added to the cluster

Details of "faliInstanceIds" field

Parameter Name	Type	Description
instanceId	String	Instance ID
message	String	Reason for failure

4. Example

Input

```
https://domain/v2/index.php?Action=AddClusterInstancesFromExistedCvm&clusterId=clus-xxxxx&instanceIds.0=ins-xxxxxx&instanceIds.1=ins-xxxxxx
```

Output

```
{
"code" : 0,
"message" : "ok",
"data"{
"succInstanceIds":["ins-xxxxxx","ins-xxxxxx"],
}
}
```

Cluster Autoscaler APIs
Create Cluster Scaling Group

Last updated：2018-06-01 09:33:53

API Description

This API (CreateClusterAsg) is used to create a cluster scaling group.

Domain name for API request:

ccs.api.qcloud.com

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
instanceId	Reference CVM, which must be a node in the cluster. Enter the instanceId field returned by the API Query Cluster Node List. The launch configuration for scale-up is generated based on this node's configuration (including vCPU, memory, model, VPC, subnet, system disk, type and size of data disk, bandwidth, billing method of bandwidth, whether to assign public IP, etc.).	Yes	String
minSize	The minimum size of a scaling group	Yes	Int
maxSize	The maximum size of a scaling group, which itself is limited for auto scaling. For more information, please see AS documentation.	Yes	Int

Parameter Name	Description	Required	Type
password	Node password. It is generated randomly if not set, and sent via internal message. It must be a combination of 8-16 characters comprised of at least two of the following types: uppercase/lowercase letters (a-z, A-Z), numbers (0-9), and special characters (**( ) ` ~ ! @ # $ % ^ & * - + = | { } [ ] : ; ' < > , . ? /**).	No	String
keyId	Key ID. You can use the key to log in to the node after it is associated. The keyId can be obtained through the API Query key. Key and password cannot both be specified.	No	String
label	label	No	Array
autoScalingGroupName	Scaling group name, which must be unique and is automatically generated if not specified.	No	String
launchConfigurationName	Launch configuration name, which must be unique and is automatically generated if not specified.	No	String

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=CreateClusterAsg
&clusterId=cls-xxxxxxxx
```

```
&instanceId=ins-xxxxxxxx
&password=yourpass
&minSize=0
&maxSize=10
&label.yourkey=yourval
&autoScalingGroupName=yourasgname
&launchConfigurationName=yourlcname
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
"requestId": 4411
}
}
```

Enable Cluster Scaling Group

Last updated：2018-06-01 09:57:30

API Description

This API (nableClusterAsg) is used to enable a disabled cluster scaling group.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupIds	Scaling group ID list	Yes	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=EnableClusterAsg
&clusterId=cls-xxxxxxxx
&autoScalingGroupIds.0=asg-xxxxxxxx
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
}
}
```

Query the List of Cluster Scaling Group

Last updated：2018-06-01 09:56:13

API Description

This API (DescribeClusterAsg) is used to query the information of a cluster scaling group.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	No	String
autoScalingGroupId	Scaling group ID	No	String
status	Scaling group status. For more information, please see the status list.	No	String
offset	Offset. Default is 0.	No	Int
limit	The maximum number of entries outputted. Default is 20.	No	Int

Status List

Status	Description
disabled	Disabled
disabling	Disabling
enabled	Enabled

Status	Description
enabling	Enabling
updating	Updating

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String
data	Scaling group information. Details are shown below.	Array

"data" is composed as follows:

Parameter Name	Description	Type
totalCount	Total number of results	Int
asgInfo	List of scaling groups. Details are shown below.	Array

Each scaling group in asgInfo is composed as follows:

Field	Description	Type
autoScalingGroupId	Scaling group ID	String
autoScalingGroupName	Scaling group name	String
clusterId	Cluster ID	String
status	Scaling group status	String
scaleDownEnabled	Whether to enable scale-down	Bool
minSize	The minimum size of a scaling group	Int

Field	Description	Type
maxSize	The maximum size of a scaling group	Int
instanceNum	The number of CVMs in a scaling group	Int
desiredCapacity	The desired number of CVMs in a scaling group	Int
label	The label of the CVM in the scaling group	Array
launchConfigurationId	Launch configuration ID	String
launchConfigurationName	Launch configuration name	String

Example

Input

```
https://domain/v2/index.php?Action=DescribeClusterAsg
&clusterId=cls-xxxxxxxx
&autoScalingGroupId=asg-xxxxxxxx
&status=enabled
&offset=0
&limit=20
&other common parameters
```

Output


```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
"totalCount": 1,
"asgInfo": [
{
"autoScalingGroupId": "asg-xxxxxxxx",
"autoScalingGroupName": "cls-xxxxxxxx-g1867619587",
"clusterId": "cls-xxxxxxxx",
"status": "enabled",
"scaleDownEnabled": false,
"label": [],
"minSize": 0,
```

```
"maxSize": 5,
"instanceNum": 0,
"desiredCapacity": 1,
"launchConfigurationId": "asc-xxxxxxxx",
"launchConfigurationName": "cls-xxxxxxxx-c123109984"
}
]
}
}
```

Enable or Disable Reduce Capacity

Last updated：2018-07-16 16:13:32

API Description

This API (ModifyClusterAsgScaleDown) is used to specify whether to scale down a cluster scaling group. Scale-down is specific to clusters, and applies to all scaling groups in the cluster once enabled.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
scaleDownEnabled	Whether to enable scale-down. Enable if it is not 0	Yes	Int

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=ModifyClusterAsgScaleDown
&clusterId=cls-xxxxxxxx
&scaleDownEnabled=1
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
"requestId": 4411
}
}
```

Modify the Max and Min Value and Label

Last updated：2018-06-01 09:42:01

API Description

This API (ModifyClusterAsgRange) is used to modify the maximum size, minimum size and label of a cluster scaling group. The label is modified by resetting it.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupId	Scaling group ID	Yes	String
minSize	The minimum size of a scaling group	No	Int
maxSize	The maximum size of a scaling group, which itself is limited for auto scaling. For more information, please see AS documentation.	No	Int
label	label	No	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int

Parameter Name	Description	Type
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=ModifyClusterAsgRange
&clusterId=cls-xxxxxxxx
&autoScalingGroupId=asg-xxxxxxxx
&maxSize=10
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
"requestId": 4411
}
}
```

Modify Cluster Scaling Group Label

Last updated：2018-05-31 17:52:44

API Description

This API (ModifyClusterAsgLabel) is used to modify the label of a cluster scaling group. Only the key in the label passed is modified, and the original key in the label remains unchanged.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupId	Scaling group ID	Yes	String
label	label	No	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=ModifyClusterAsgLabel
&clusterId=cls-xxxxxxxx
&autoScalingGroupId=asg-xxxxxxxx
&label.key=val
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": null
}
```

Reset Cluster Scaling Group Label

Last updated：2018-06-01 09:48:06

API Description

This API (ResetClusterAsgLabel) is used to reset the label of a cluster scaling group. The passed label completely replaces the existing label of the scaling group.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupId	Scaling group ID	Yes	String
label	label	No	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=ResetClusterAsgLabel
&clusterId=cls-xxxxxxxx
&autoScalingGroupId=asg-xxxxxxxx
&label.key=val
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": null
}
```

Disable Cluster Scaling Group

Last updated：2018-06-01 09:32:01

API Description

This API (DisableClusterAsg) is used to disable an enabled cluster scaling group. Auto scaling is not supported for disabled scaling groups.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupIds	Scaling group ID list	Yes	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=DisableClusterAsg
&clusterId=cls-xxxxxxxx
&autoScalingGroupIds.0=asg-xxxxxxxx
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
}
}
```

Delete Cluster Scaling Group Label

Last updated：2018-06-01 09:42:45

API Description

This API (DeleteClusterAsgLabel) is used to delete a cluster scaling group label.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupId	Scaling group ID	Yes	String
labelKeys	List of keys of the labels to be deleted	Yes	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=DeleteClusterAsgLabel
&clusterId=cls-xxxxxxxx
&autoScalingGroupId=asg-xxxxxxxx
&labelKeys.0=key
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": null
}
```

Delete Cluster Scaling Group Label

Last updated：2018-06-01 09:35:32

API Description

This API (DeleteClusterAsg) is used to delete a cluster scaling group. Deleting a scaling group will terminate the CVMs in the scaling group. Please proceed with caution.

Domain name for API request:

```
ccs.api.qcloud.com
```

Input Parameters

The following request parameter list only provides API request parameters. Other parameters can be found in Common Request Parameters.

Parameter Name	Description	Required	Type
clusterId	Cluster ID. Enter the clusterId field returned by the API Query Cluster List	Yes	String
autoScalingGroupIds	Scaling group ID list	Yes	Array

Output Parameters

Parameter Name	Description	Type
code	Common error code. 0: Successful; other values: Failed.	Int
codeDesc	Error code at business side. For a successful operation, "Success" is returned. In case of an error, a message describing the reason for the error is returned.	String
message	Module error message description depending on API	String

Example

Input

```
https://domain/v2/index.php?Action=DeleteClusterAsg
&clusterId=cls-xxxxxxxx
&autoScalingGroupIds.0=asg-xxxxxxxx
&other common parameters
```

Output

```
{
"code": 0,
"message": "",
"codeDesc": "Success",
"data": {
}
}
```