

Global Application Acceleration Platform

API Documentation

Product Documentation



Tencent Cloud

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API Documentation

History

Last updated : 2023-07-13 15:25:24

Release 22

Release time: 2023-07-13 15:18:14

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeAuthSignature](#)

New data structures:

- [SupportFeature](#)

Modified data structures:

- [RegionDetail](#)
 - New members:SupportFeature

Release 21

Release time: 2022-10-28 17:46:12

Release updates:

Improvement to existing documentation.

Modified data structures:

- [HTTPListener](#)
 - New members:ProxyId, GroupId
- [HTTPSListener](#)
 - New members:ProxyId, GroupId
- [TCPListener](#)
 - New members:ProxyId, GroupId

- [UDPListener](#)
 - New members:ProxyId, GroupId

Release 20

Release time: 2022-10-10 17:11:04

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateUDPListeners](#)
 - New input parameters:DelayLoop, ConnectTimeout, HealthyThreshold, UnhealthyThreshold, FailoverSwitch, HealthCheck, CheckType, CheckPort, ContextType, SendContext, RecvContext
- [ModifyUDPListenerAttribute](#)
 - New input parameters:DelayLoop, ConnectTimeout, HealthyThreshold, UnhealthyThreshold, FailoverSwitch, HealthCheck, CheckType, CheckPort, ContextType, SendContext, RecvContext

Modified data structures:

- [BindRealServer](#)
 - New members:RealServerFailoverRole
- [HTTPSListener](#)
 - New members:Http3Supported
- [ProxyGroupDetail](#)
 - New members:FeatureBitmap
- [ProxyGroupInfo](#)
 - New members:FeatureBitmap
- [ProxyInfo](#)
 - New members:FeatureBitmap
- [UDPListener](#)
 - New members:DelayLoop, ConnectTimeout, HealthyThreshold, UnhealthyThreshold, FailoverSwitch, HealthCheck, CheckType, CheckPort, ContextType, SendContext, RecvContext

Release 19

Release time: 2022-08-10 16:10:30

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateRule](#)
 - New input parameters:ForcedRedirect
- [ModifyRuleAttribute](#)
 - New input parameters:ForcedRedirect

Modified data structures:

- [RuleInfo](#)
 - New members:ForcedRedirect

Release 18

Release time: 2022-07-25 16:16:44

Release updates:

Improvement to existing documentation.

New APIs:

- [AddRealServers](#)
- [CreateProxy](#)
- [CreateProxyGroup](#)
- [DeleteProxyGroup](#)
- [RemoveRealServers](#)

New data structures:

- [AccessConfiguration](#)
- [NewRealServer](#)

Release 17

Release time: 2022-07-25 15:58:57

Release updates:

Improvement to existing documentation.

Deleted APIs:

- [AddRealServers](#)
- [CreateProxy](#)
- [CreateProxyGroup](#)
- [DeleteProxyGroup](#)
- [RemoveRealServers](#)

Deleted data structures:

- [AccessConfiguration](#)
- [NewRealServer](#)

Modified data structures:

- [CountryAreaMap](#)
 - [New members:Remark](#)

Release 16

Release time: 2022-06-20 14:49:54

Release updates:

Improvement to existing documentation.

New APIs:

- [AddRealServers](#)
- [CloseProxies](#)
- [CloseSecurityPolicy](#)
- [CreateCertificate](#)
- [CreateDomainErrorPageInfo](#)
- [CreateProxy](#)
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- [DeleteDomainErrorPageInfo](#)
- [DeleteProxyGroup](#)
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- [DescribeSecurityPolicyDetail](#)
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- [DescribeTCPListeners](#)
- [DescribeUDPListeners](#)
- [ModifyCertificateAttributes](#)
- [ModifyProxiesProject](#)
- [ModifyRealServerName](#)
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- [NewRealServer](#)
- [ProxyGroupDetail](#)
- [ProxyStatus](#)
- [RealServerStatus](#)
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- [TCPListener](#)
- [TagResourceInfo](#)
- [UDPListener](#)

Release 15

Release time: 2022-06-20 14:35:16

Release updates:

Improvement to existing documentation.

Deleted APIs:

- AddRealServers
- CloseProxies
- CloseSecurityPolicy
- CreateCertificate
- CreateDomainErrorPageInfo
- CreateProxy
- CreateProxyGroup
- DeleteCertificate
- DeleteDomainErrorPageInfo
- DeleteProxyGroup
- DeleteSecurityPolicy
- DescribeAccessRegions
- DescribeCertificateDetail
- DescribeProxies
- DescribeProxiesStatus
- DescribeProxyAndStatisticsListeners
- DescribeProxyGroupDetails
- DescribeProxyGroupStatistics
- DescribeProxyStatistics
- DescribeRealServers
- DescribeRealServersStatus
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- DescribeRulesByRuleIds
- DescribeSecurityPolicyDetail
- DescribeSecurityRules
- DescribeTCPListeners
- DescribeUDPListeners
- ModifyCertificateAttributes
- ModifyProxiesProject

- ModifyRealServerName
- OpenProxyGroup
- OpenSecurityPolicy
- RemoveRealServers

Deleted data structures:

- AccessConfiguration
- BindRealServerInfo
- CertificateDetail
- NewRealServer
- ProxyGroupDetail
- ProxyStatus
- RealServerStatus
- SecurityPolicyRuleOut
- TCPListener
- TagResourceInfo
- UDPListener

Release 14

Release time: 2022-03-01 10:53:37

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateRule](#)
 - New input parameters:ServerNameIndicationSwitch, ServerNameIndication
- [ModifyRuleAttribute](#)
 - New input parameters:ServerNameIndicationSwitch, ServerNameIndication

Modified data structures:

- [ProxyInfo](#)
 - New members:InBanBlacklist
- [RealServer](#)
 - New members:InBanBlacklist
- [RuleInfo](#)

- New members:ServerNameIndicationSwitch, ServerNameIndication

Release 13

Release time: 2022-02-09 14:35:01

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateDomain](#)
 - New input parameters:Http3Supported
- [CreateHTTPSListener](#)
 - New input parameters:Http3Supported
- [CreateProxyGroup](#)
 - New input parameters:Http3Supported
- [DescribeHTTPSListeners](#)
 - New input parameters:Http3Supported

Modified data structures:

- [DomainRuleSet](#)
 - New members:Http3Supported
- [ProxyGroupDetail](#)
 - New members:Http3Supported
- [ProxyGroupInfo](#)
 - New members:Http3Supported
- [RegionDetail](#)
 - New members:FeatureBitmap

Release 12

Release time: 2022-01-19 10:24:05

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CheckProxyCreate](#)
 - New input parameters:Http3Supported
- [CreateProxy](#)
 - New input parameters:PackageType, Http3Supported
- [InquiryPriceCreateProxy](#)
 - New input parameters:Http3Supported

Modified data structures:

- [AccessRegionDetial](#)
 - New members:FeatureBitmap
- [ProxyInfo](#)
 - New members:Http3Supported

Release 11

Release time: 2021-12-27 10:41:48

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeProxyStatistics](#)
 - New input parameters:Isp

Release 10

Release time: 2021-11-16 17:03:33

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeProxies](#)
 - New input parameters:Order, OrderField

New data structures:

- [IPDetail](#)

Modified data structures:

- [AccessRegionDetail](#)
 - New members:RegionArea, RegionAreaName, IDCType
- [ProxyInfo](#)
 - New members:IPList
- [RealServerStatus](#)
 - New members:GroupID
- [RegionDetail](#)
 - New members:RegionArea, RegionAreaName, IDCType

Release 9

Release time: 2021-10-08 15:08:24

Release updates:

Improvement to existing documentation.

Modified data structures:

- [DomainRuleSet](#)
 - New members:BanStatus
- [ProxyInfo](#)
 - New members:BanStatus

Release 8

Release time: 2021-09-15 17:08:29

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CheckProxyCreate](#)
 - New input parameters:NetworkType, PackageType
- [CreateProxy](#)
 - New input parameters:NetworkType

- [CreateProxyGroup](#)
 - New input parameters:PackageType
- [DescribeAccessRegionsByDestRegion](#)
 - New input parameters:PackageType
- [DescribeRegionAndPrice](#)
 - New input parameters:PackageType
- [InquiryPriceCreateProxy](#)
 - New input parameters:NetworkType, PackageType
 - New output parameters:Cn2BandwidthPrice, Cn2BandwidthPriceWithDiscount

Modified data structures:

- [AccessConfiguration](#)
 - New members:NetworkType
- [ProxyGroupDetail](#)
 - New members:PackageType
- [ProxyInfo](#)
 - New members:NetworkType, PackageType
- [TCPListener](#)
 - New members:FailoverSwitch, SessionPersist
- [UDPListener](#)
 - New members:SessionPersist

Release 7

Release time: 2021-08-16 15:47:19

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateCustomHeader](#)
- [DescribeBlackHeader](#)
- [DescribeCustomHeader](#)

Release 6

Release time: 2021-07-09 18:48:26

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CheckProxyCreate](#)
 - New input parameters:IPAddressVersion
- [CreateProxy](#)
 - New input parameters:IPAddressVersion
- [CreateProxyGroup](#)
 - New input parameters:IPAddressVersion
- [CreateTCPListeners](#)
 - New input parameters:HealthyThreshold, UnhealthyThreshold
- [DescribeAccessRegionsByDestRegion](#)
 - New input parameters:IPAddressVersion
- [DescribeRegionAndPrice](#)
 - New input parameters:IPAddressVersion
- [InquiryPriceCreateProxy](#)
 - New input parameters:IPAddressVersion
- [ModifyTCPListenerAttribute](#)
 - New input parameters:HealthyThreshold, UnhealthyThreshold

Modified data structures:

- [ProxyGroupDetail](#)
 - New members:IPAddressVersion
- [ProxyInfo](#)
 - New members:IPAddressVersion
- [TCPListener](#)
 - New members:HealthyThreshold, UnhealthyThreshold

Release 5

Release time: 2021-04-12 11:40:53

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateTCPListeners](#)
 - New input parameters:FailoverSwitch
- [ModifyTCPListenerAttribute](#)
 - New input parameters:FailoverSwitch

Modified data structures:

- [RealServerBindSetReq](#)
 - New members:RealServerFailoverRole

Release 4

Release time: 2021-03-03 16:53:33

Release updates:

Improvement to existing documentation.

Modified APIs:

- [ModifySecurityRule](#)
 - New input parameters:RuleAction, SourceCidr, Protocol, DestPortRange

Release 3

Release time: 2021-01-12 17:22:33

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateTCPListeners](#)
 - New input parameters:ClientIPMethod
- [DescribeRuleRealServers](#)
 - New input parameters:Offset, Limit

Modified data structures:

- [DomainRuleSet](#)

- New members:DomainStatus
- [ProxyGroupDetail](#)
 - New members:PolicyId, Version, ClientIPMethod
- [ProxyInfo](#)
 - New members:ClientIPMethod
- [RuleCheckParams](#)
 - New members:FailedCountInter, FailedThreshold, BlockInter
- [TCPListener](#)
 - New members:ClientIPMethod

Release 2

Release time: 2020-09-25 11:39:36

Release updates:

Improvement to existing documentation.

Modified APIs:

- [DescribeRealServerStatistics](#)
 - New input parameters:StartTime, EndTime, Granularity
 - **Modified input parameters:** ListenerId, WithinTime
 - New output parameters:RsStatisticsData

Modified data structures:

- [BandwidthPriceGradient](#)
 - New members:DiscountBandwidthUnitPrice
- [ProxyGroupInfo](#)
 - New members:ProxyType
- [ProxyInfo](#)
 - New members:ProxyType

Existing Release

Release time: 2020-07-24 14:26:55

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- [AddRealServers](#)
- [BindListenerRealServers](#)
- [BindRuleRealServers](#)
- [CheckProxyCreate](#)
- [CloseProxies](#)
- [CloseProxyGroup](#)
- [CloseSecurityPolicy](#)
- [CreateCertificate](#)
- [CreateDomain](#)
- [CreateDomainErrorPageInfo](#)
- [CreateHTTPListener](#)
- [CreateHTTPSListener](#)
- [CreateProxy](#)
- [CreateProxyGroup](#)
- [CreateProxyGroupDomain](#)
- [CreateRule](#)
- [CreateSecurityPolicy](#)
- [CreateSecurityRules](#)
- [CreateTCPListeners](#)
- [CreateUDPListeners](#)
- [DeleteCertificate](#)
- [DeleteDomain](#)
- [DeleteDomainErrorPageInfo](#)
- [DeleteListeners](#)
- [DeleteProxyGroup](#)
- [DeleteRule](#)
- [DeleteSecurityPolicy](#)
- [DeleteSecurityRules](#)
- [DescribeAccessRegions](#)
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- [DescribeCertificateDetail](#)
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- [DescribeCountryAreaMapping](#)
- [DescribeDestRegions](#)
- [DescribeDomainErrorPageInfo](#)

- [DescribeDomainErrorPageInfoByIds](#)
- [DescribeGroupAndStatisticsProxy](#)
- [DescribeGroupDomainConfig](#)
- [DescribeHTTPListeners](#)
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- [DescribeListenerRealServers](#)
- [DescribeListenerStatistics](#)
- [DescribeProxies](#)
- [DescribeProxiesStatus](#)
- [DescribeProxyAndStatisticsListeners](#)
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- [DescribeRuleRealServers](#)
- [DescribeRules](#)
- [DescribeRulesByRuleIds](#)
- [DescribeSecurityPolicyDetail](#)
- [DescribeSecurityRules](#)
- [DescribeTCPListeners](#)
- [DescribeUDPListeners](#)
- [DestroyProxies](#)
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- [AccessRegionDomainConf](#)
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- [Certificate](#)
- [CertificateAliasInfo](#)
- [CertificateDetail](#)
- [CountryAreaMap](#)
- [DomainAccessRegionDict](#)
- [DomainErrorPageInfo](#)
- [DomainRuleSet](#)
- [Filter](#)
- [GroupStatisticsInfo](#)
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- [HTTPSListener](#)
- [HTTPHeaderParam](#)
- [ListenerInfo](#)
- [MetricStatisticsInfo](#)
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- [NewRealServer](#)
- [ProxyGroupDetail](#)
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- [ProxyIdDict](#)
- [ProxyInfo](#)
- [ProxySimpleInfo](#)
- [ProxyStatus](#)
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- [RealServerBindSetReq](#)
- [RealServerStatus](#)
- [RegionDetail](#)
- [RuleCheckParams](#)
- [RuleInfo](#)
- [SecurityPolicyRuleIn](#)
- [SecurityPolicyRuleOut](#)
- [StatisticsDataInfo](#)
- [TCPListener](#)
- [TagPair](#)
- [TagResourceInfo](#)
- [UDPListener](#)

Introduction

Last updated : 2023-07-13 15:25:24

Global Application Accelerate Platform (GAAP) is a PAAS product to optimize the access latency for businesses across the globe. Relying on high-speed connections and cluster forwarding and intelligent routing based on global nodes, end users in different regions are connected to the closest nodes and forwarded to the origin server, so as to reduce the access lag and delay.

Features

Global deployment

GAAP has more than 50 global nodes deployed across Asia, Europe, South America, North America, and Oceania. It provides stable and efficient high-speed connections for businesses around the globe that require intra-region communication or server sharing, reducing access lag and latency.

High efficiency and stability

GAAP has five central nodes covering major regions around the world with an SLA of 99.95%. The network latency is below 60ms for intra-region communications and below 180ms for cross-continent or cross-region communications. A single GAAP connection can sustain 1 Gbps bandwidth and accelerate one million concurrent requests.

Flexible access

GAAP provides graphical user interface for easy creation and use of high-speed connections. It supports both IP and domain name, nearby access through one domain name, TCP and UDP protocols, and URL forwarding for HTTP and HTTPS.

Operational support

GAAP supports the origin server to get users' real IP. It supports on-demand capacity expansion and service change imperceptible to your business; statistical analysis in multiple dimensions such as bandwidth, concurrence, packet loss, latency, and packet forwarding; cloud monitoring alarms for connections and origin servers.

##Scenarios

###Cross-region acceleration

For businesses that require cross-origin access, network conditions in different regions often result in increased latency and packet loss, affecting the user experience of cross-domain business access. GAAP can create high-speed connections between the acceleration region (region where the user is located) and the origin server region (region

where the server is located), which effectively reduce network latency and packet loss, ensure fast and stable network, and deliver better user experience.

One server shared by game players worldwide

In general, many of our games are simultaneously accessible to players around the globe or across a large region, but this type of scenario may compromise game fairness and user experience due to network conditions in various regions. The Global Application Acceleration Service allows multiple regions to use a unified domain name for access, allowing players in each region to access the nearest high-speed connections, enabling simultaneous acceleration of users worldwide or in the same region, directly improving user experience and ensuring game fairness.

API Category

Last updated : 2023-07-13 15:25:24

Origin Server APIs

API Name	Feature	Frequency Limit (maximum requests per second)
AddRealServers	Adds an origin server	20
DescribeRealServers	Queries origin server information	1000
DescribeRealServersStatus	This example shows you how to query the binding status of the origin server.	20
ModifyRealServerName	Modifies the origin server name	20
RemoveRealServers	Deletes an origin server	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeAuthSignature	Gets a request signature	20
DescribeGroupAndStatisticsProxy	Queries the information of connections and connection groups from which the statistics can be derived.	20
DescribeListenerStatistics	Queries listener statistics.	20
DescribeProxyGroupStatistics	This example shows you how to query the connection group statistics.	20
DescribeProxyStatistics	This example shows you how to query the connection statistics.	20
DescribeRealServerStatistics	Queries the health check statistics of bound origin server (disused)	20

DescribeRegionAndPrice	Obtains an origin server region and a bandwidth price gradient.	20
DescribeResourcesByTag	Pulls resource list based on tags	20

Listener APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BindListenerRealServers	Binds listeners with an origin server.	20
CreateHTTPListener	Creates an HTTP listener.	20
CreateHTTPSListener	Creates an HTTPS listener.	20
CreateTCPListeners	Creates a TCP listener.	20
CreateUDPListeners	Creates an UDP listener.	20
DeleteListeners	Deletes a connection listener.	20
DescribeHTTPListeners	Queries HTTP listener information.	20
DescribeHTTPSListeners	Queries the HTTPS listener information.	20
DescribeListenerRealServers	Queries a listener origin server list.	20
DescribeTCPListeners	Queries the TCP listener list	20
DescribeUDPListeners	Queries the UDP listener list	20
ModifyHTTPListenerAttribute	Modifies HTTP listener configuration.	20
ModifyHTTPSListenerAttribute	Modifies HTTPS listener configuration.	20
ModifyTCPListenerAttribute	Modifies TCP listener configuration.	20
ModifyUDPListenerAttribute	Modifies UDP listener	20

	configuration.	
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Rule APIs

API Name	Feature	Frequency Limit (maximum requests per second)
BindRuleRealServers	Binds forwarding rules with origin server.	20
CreateCustomHeader	Creates a custom header	20
CreateDomain	Creates a access domain name for HTTPS listeners.	20
CreateDomainErrorPageInfo	Customizes the error code of an error response to the specified domain name.	20
CreateRule	Creates listener forwarding rules.	20
DeleteDomain	Deletes a forwarding rule based on domain names.	20
DeleteDomainErrorPageInfo	Deletes a custom error code for a domain name	20
DeleteRule	Deletes a forwarding rule of a layer-7 listener.	20
DescribeBlackHeader	Queries the list of blocked custom headers	20
DescribeCustomHeader	Queries a list of custom headers	20
DescribeDomainErrorPageInfo	Queries the custom error response to a domain name	20
DescribeDomainErrorPageInfoByIds	Queries a corresponding error response by a custom error ID	20
DescribeRuleRealServers	This example shows you how to query the origin server information of forwarding rules.	20
DescribeRules	Queries forwarding rule information.	20
DescribeRulesByRuleIds	Pulls the list of rules based on rule ID	20

ModifyCertificate	Modifies the certificate of a domain name.	20
ModifyDomain	Updates the domain name of a listener forwarding rule.	20
ModifyRuleAttribute	Modifies forwarding rule information.	20
SetAuthentication	Advanced authentication configuration	20

Connection Group APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CloseProxyGroup	Disables a connection group	20
CreateProxyGroup	Creates a connection group	20
CreateProxyGroupDomain	(Disused) Enables a connection group domain name	20
DeleteProxyGroup	Deletes a connection group	20
DescribeCountryAreaMapping	Obtains country/region code mapping table.	20
DescribeGroupDomainConfig	(Disused) Obtains domain name resolution configuration details of a connection group	20
DescribeProxyGroupDetails	Queries connection group details	20
DescribeProxyGroupList	Pulls a connection group list.	20
ModifyGroupDomainConfig	(Disused) Configures the nearest access domain name of a connection group	20
ModifyProxyGroupAttribute	Modifies connection group attributes.	20
OpenProxyGroup	Enables a connection group	20

Connection APIs

API Name	Feature	Frequency Limit
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		(maximum requests per second)
CheckProxyCreate	Queries whether a connection can be created.	20
CloseProxies	Disables a connection	20
CloseSecurityPolicy	Disables a security policy	20
CreateProxy	Creates a connection	20
CreateSecurityPolicy	Creates security policies.	20
CreateSecurityRules	Adds security policy rules.	20
DeleteSecurityPolicy	Deletes a security policy	20
DeleteSecurityRules	Deletes a security policy rule.	20
DescribeAccessRegions	Queries acceleration regions	20
DescribeAccessRegionsByDestRegion	Queries available acceleration regions based on the origin server region.	20
DescribeDestRegions	Queries origin server region.	20
DescribeProxies	Queries connection list	20
DescribeProxiesStatus	Queries connection status	20
DescribeProxyAndStatisticsListeners	This example shows you how to query the information of listeners and connections from which the statistics can be derived.	20
DescribeProxyDetail	Queries connection details.	20
DescribeSecurityPolicyDetail	Obtains security policy details	20
DescribeSecurityRules	Queries the list of security rules based on security rule ID	20
DestroyProxies	Terminates a connection.	20
InquiryPriceCreateProxy	Creates acceleration connection price inquiries.	20
ModifyProxiesAttribute	Modifies connection attributes.	20
ModifyProxiesProject	Modifies the connection project	20

ModifyProxyConfiguration	Modifies connection configuration.	20
ModifySecurityRule	Modifies a security policy rule name.	20
OpenProxies	Enables a connection.	20
OpenSecurityPolicy	Enables a security policy	20

Certificate APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateCertificate	Creates a certificate	20
DeleteCertificate	Deletes a certificate	20
DescribeCertificateDetail	Queries certificate details.	20
DescribeCertificates	Queries a server certificate list.	20
ModifyCertificateAttributes	Modifies certificate attributes	20

Making API Requests

Request Structure

Last updated : 2023-05-04 10:13:14

1. Service Address

The API supports access from either a nearby region (at `gaap.tencentcloudapi.com`) or a specified region (at `gaap.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 "`gaap.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)	<code>gaap.tencentcloudapi.com</code>
South China (Guangzhou)	<code>gaap.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>gaap.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>gaap.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>gaap.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>gaap.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>gaap.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>gaap.ap-singapore.tencentcloudapi.com</code>

Southeast Asia (Bangkok)	gaap.ap-bangkok.tencentcloudapi.com
South Asia (Mumbai)	gaap.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	gaap.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	gaap.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	gaap.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	gaap.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	gaap.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	gaap.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 : 2023-07-13 15:25:24

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 valid version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request;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 UNIX 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=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&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
Southeast Asia Pacific (Singapore)	ap-singapore

Signature v3

Last updated : 2020-09-10 17:49:49

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	<p>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>.</p> <p>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.</p>
CanonicalHeaders	<p>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.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> 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). <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>.</p> <p>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.</p>
SignedHeaders	<p>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.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> 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 (;). <p>The value in this example is <code>content-type;host</code></p>
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 (<code>tc3_request</code>). 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 match the domain name of the product called. The calculation result in this example is <code>20180525/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 2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
------------------------	---

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
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

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., Gu5t9xGARNpq86cd98joQYCN3*****.
Date	The Date field information in Credential, such as 2019-02-25 in this example.
Service	Value in the Service field in Credential, such as cvm 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%2B WcGel%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.utcnow().timestamp(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* 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=zmmj35mikh6pM3V7sUEuX4wyYM%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 enable
    s 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 examp
    le: params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"); // Common paramet
    er
    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> requestPa
rams, 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>(param, 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(sigOutParam);
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 : 2019-11-25 22:29:34

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
<code>AuthFailure.InvalidSecretId</code>	Invalid key (not a TencentCloud API key type).
<code>AuthFailure.MFAFailure</code>	MFA failed.
<code>AuthFailure.SecretIdNotFound</code>	The key does not exist.
<code>AuthFailure.SignatureExpire</code>	Signature expired.
<code>AuthFailure.SignatureFailure</code>	Signature error.
<code>AuthFailure.TokenFailure</code>	Token error.
<code>AuthFailure.UnauthorizedOperation</code>	The request does not have CAM authorization.
<code>DryRunOperation</code>	DryRun Operation. It means that the request would have succeeded, but the <code>DryRun</code> parameter was used.
<code>FailedOperation</code>	Operation failed.
<code>InternalServerError</code>	Internal error.
<code>InvalidAction</code>	The API does not exist.
<code>InvalidParameter</code>	Incorrect parameter.
<code>InvalidParameterValue</code>	Invalid parameter value.
<code>LimitExceeded</code>	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.

Origin Server APIs

RemoveRealServers

Last updated : 2023-07-13 15:25:30

1. API Description

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

This API is used to delete the added origin server (server) IP or domain name.

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: RemoveRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RealServerIds.N	Yes	Array of String	List of origin server IDs

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 origin server

Input Example

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

{
  "RealServerIds": [
    "rs-fgerw3dt"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

ModifyRealServerName

Last updated : 2023-07-13 15:25:30

1. API Description

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

This API (ModifyRealServerName) is used to modify origin server names.

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: ModifyRealServerName.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RealServerName	Yes	String	Origin server name
RealServerId	Yes	String	Origin server 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 Modifying origin server name

This example shows you how to modify the origin server name.

Input Example

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

{
  "RealServerName": "'namexxx'",
  "RealServerId": "'rsxxxx'"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeRealServersStatus

Last updated : 2023-07-13 15:25:30

1. API Description

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

This API (DescribeRealServersStatus) is used to query whether an origin server has been bound to a rule or listener.

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: DescribeRealServersStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RealServerIds.N	Yes	Array of String	List of origin server IDs

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Quantity of origin server query results returned

RealServerStatusSet	Array of RealServerStatus	Binding status list of origin servers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the binding status of the origin server

This example shows you how to query the binding status of the origin server.

Input Example

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

{
  "RealServerIds": [
    "rs-4ftghy6"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "xx",
    "RealServerStatusSet": [
      {
        "ProxyId": "xx",
        "BindStatus": 0,
        "RealServerId": "xx",
        "GroupId": "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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.RealServerNotInProject	The origin server do not belong to this project.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.

InvalidParameterValue.RealServerNotBelong	The origin server does not belong to this user.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DescribeRealServers

Last updated : 2023-07-13 15:25:31

1. API Description

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

This API is used to query origin server information. It can query all origin servers under the specified project name, and supports fuzzy query by specified IPs or domain names.

A maximum of 1000 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: DescribeRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	Queries the project ID to which the origin server belongs. -1: all projects.
SearchValue	No	String	Origin server IP or domain name to be queried. The fuzzy match is supported.
Offset	No	Integer	Offset, which is 0 by default.
Limit	No	Integer	Quantity of values to return. The default value is 20 and the maximum value is 50.

TagSet.N	No	Array of TagPair	Tag list. If this field exists, the list of the resources with the tag will be pulled. It supports up to 5 tags. If there are two or more tags, the origin servers tagged any of them will be pulled.
Filters.N	No	Array of Filter	Filter conditions. The value of the <code>name</code> of the <code>filter</code> (RealServerName, RealServerIP)

3. Output Parameters

Parameter Name	Type	Description
RealServerSet	Array of BindRealServerInfo	An information list of origin server
TotalCount	Integer	The quantity of origin servers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying origin server information

Input Example

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

{
  "ProjectId": "0",
  "SearchValue": "'1.1.1.1'"
}
```

Output Example

```
{
  "Response": {
    "RealServerSet": [
      {
        "RealServerId": "rs123",
        "RealServerIP": "1.1.1.1",
        "RealServerName": "rsname",
        "ProjectId": 0,
        "TagSet": []
      }
    ],
    "TotalCount": 1,
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

5. Developer Resources

SDK

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

AddRealServers

Last updated : 2023-07-13 15:25:31

1. API Description

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

This API is used to add the information of the origin server (server), which supports IP or the domain name.

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: AddRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	Project ID corresponding to origin server
RealServerIP.N	Yes	Array of String	IP or domain name corresponding to origin server
RealServerName	Yes	String	Name of the origin server
TagSet.N	No	Array of TagPair	List of tags

3. Output Parameters

Parameter Name	Type	Description
RealServerSet	Array of NewRealServer	An information list of origin server
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding origin server

Input Example

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

{
  "ProjectId": "0",
  "RealServerName": "'test'",
  "RealServerIP": [
    "1.1.1.1"
  ]
}
```

Output Example

```
{
  "Response": {
    "RealServerSet": [
      {
        "RealServerId": "id-5dr8gu4",
        "RealServerIP": "1.1.1.1"
      }
    ],
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

```
}  
}
```

Example2 AddRealServers

Input Example

```
POST / HTTP/1.1  
Host: gaap.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: AddRealServers  
<Common request parameters>  
  
{  
  "ProjectId": "0",  
  "RealServerName": "benny",  
  "RealServerIP": [  
    "106.52.70.76"  
  ]  
}
```

Output Example

```
{  
  "Response": {  
    "RequestId": "be13ee03-60e8-4af1-880a-e84e5abdf6bc",  
    "RealServerSet": [  
      {  
        "RealServerIP": "106.52.70.76",  
        "RealServerId": "rs-hx4u5379"  
      }  
    ]  
  }  
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.TagResourcesFailed	Failed to add the tag to the resource.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DuplicateRS	The <code>RealServer</code> already exists.
InvalidParameterValue.InvalidTags	The tag is not found or you have no access permission to it.
InvalidParameterValue.ProjectIdNotBelong	The project does not belong to this user.
LimitExceeded.TagQuota	Insufficient tags

MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

Listener APIs

ModifyUDPListenerAttribute

Last updated : 2023-07-13 15:25:31

1. API Description

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

This API (ModifyUDPListenerAttribute) is used to modify the UDP listener configuration of a connection instance, including modification of listener names and scheduling policies.

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: ModifyUDPListenerAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
GroupId	No	String	Connection group ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
ProxyId	No	String	Connection ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
ListenerName	No	String	Listener name

Scheduler	No	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrrt</code> (the least-response-time strategy).
DelayLoop	No	Integer	Time interval of origin server health check (unit: seconds). Value range: [5, 300].
ConnectTimeout	No	Integer	Response timeout of origin server health check (unit: seconds). Value range: [2, 60]. The timeout value shall be less than the time interval for health check DelayLoop.
HealthyThreshold	No	Integer	Healthy threshold. The number of consecutive successful health checks required before considering an origin server healthy. Value range: 1 - 10.
UnhealthyThreshold	No	Integer	Unhealthy threshold. The number of consecutive failed health checks required before considering an origin server unhealthy. Value range: 1 - 10.
FailoverSwitch	No	Integer	Whether to enable the primary/secondary origin server mode for failover. Values: <code>1</code> (enabled); <code>0</code> (disabled). It's not available if the origin type is <code>DOMAIN</code> .
HealthCheck	No	Integer	Whether the health check is enabled for the origin server. Values: <code>1</code> (enabled); <code>0</code> (disabled).
CheckType	No	String	The health check type. Values: <code>PORT</code> (port); <code>PING</code> (ping).
CheckPort	No	Integer	The health probe port.
ContextType	No	String	The UDP message type. Values: <code>TEXT</code> (text). This parameter is used only when <code>CheckType = PORT</code> .
SendContext	No	String	The UDP message sent by the health probe port. This parameter is used only when <code>CheckType = PORT</code> .
RecvContext	No	String	The UDP message received by the health probe port. This parameter is used only when <code>CheckType = PORT</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 Modifying UDP listener configuration

This example shows you how to modify the UDP listener configuration.

Input Example

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

{
  "ProxyId": "link-bjkdum1",
  "ListenerId": "listener-o0f3at99",
  "Scheduler": "rr",
  "ListenerName": "test10"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "3919ba30-85c4-4cb4-81bf-ff243b50f3dc"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.

ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

ModifyTCPListenerAttribute

Last updated : 2023-07-13 15:25:31

1. API Description

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

This API (ModifyTCPListenerAttribute) is used to modify the TCP listener configuration of a connection instance, including health check configuration and scheduling policies.

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: ModifyTCPListenerAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
GroupId	No	String	Connection group ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
ProxyId	No	String	Connection ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
ListenerName	No	String	Listener name
Scheduler	No	String	The strategy used by the listener to access the origin server.

			Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrrt</code> (the least-response-time strategy).
DelayLoop	No	Integer	Time interval of origin server health check (unit: seconds). Value range: [5, 300].
ConnectTimeout	No	Integer	Response timeout of origin server health check (unit: seconds). Value range: [2, 60]. The timeout value shall be less than the time interval for health check DelayLoop.
HealthCheck	No	Integer	Whether to enable health check. 1: enable; 0: disable.
FailoverSwitch	No	Integer	Whether to enable the primary/secondary origin server mode. Valid values: 1 (enable) and 0 (disable). It cannot be enabled for domain name origin servers.
HealthyThreshold	No	Integer	Healthy threshold. The number of consecutive successful health checks required before considering an origin server healthy. Value range: 1 - 10.
UnhealthyThreshold	No	Integer	Unhealthy threshold. The number of consecutive failed health checks required before considering an origin server unhealthy. Value range: 1 -10.

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 TCP listener configuration

This example shows you how to modify the TCP listener configuration.

Input Example

```
POST / HTTP/1.1
Host: gaap.tencentcloudapi.com
```



```
Content-Type: application/json
X-TC-Action: ModifyTCPListenerAttribute
<Common request parameters>

{
  "ConnectTimeout": "20",
  "ProxyId": "link-bjkdum1",
  "HealthCheck": "1",
  "ListenerId": "listener-o0f3at99",
  "ListenerName": "test10",
  "Scheduler": "rr",
  "DelayLoop": "30"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "3919ba30-85c4-4cb4-81bf-ff243b50f3dc"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

ModifyHTTPSListenerAttribute

Last updated : 2023-07-13 15:25:32

1. API Description

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

This API (ModifyHTTPSListenerAttribute) is used to modify HTTPS listener configurations. It currently do not support connection groups and connections of version 1.0.

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: ModifyHTTPSListenerAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
ProxyId	No	String	Connection ID. This field is required if using a single connection listener.
ListenerName	No	String	New listener name
ForwardProtocol	No	String	Type of the protocol used in the forwarding from connections to origin servers

CertificateId	No	String	New listener server certificate ID
ClientCertificateId	No	String	New listener client certificate ID
PolyClientCertificateIds.N	No	Array of String	Client certificate ID of the listener after modification, which is a new field.

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 HTTPS listener configuration

This example shows you how to modify the HTTPS listener configuration.

Input Example

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

{
  "ClientCertificateId": "string",
  "CertificateId": "string",
  "ProxyId": "link-3d85gh",
  "ListenerId": "listener-o0f3at99",
  "ForwardProtocol": "HTTP",
  "ListenerName": "test-2",
  "PolyClientCertificateIds": [
    "casdfg"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "38fab584-8d14-4e2c-988c-4acdabbbf2dff"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRunning	Unable to operate: the connection group is not running.

FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

ModifyHTTPListenerAttribute

Last updated : 2023-07-13 15:25:32

1. API Description

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

This API (ModifyHTTPListenerAttribute) is used to modify the HTTP listener configuration information of a connection. Currently only supports modifying listener name.

Note: Grouped connections currently do not support HTTP/HTTPS listeners.

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: ModifyHTTPListenerAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID to be modified
ListenerName	Yes	String	New listener name
ProxyId	No	String	Connection 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 Modifying HTTP listener configuration

This example shows you how to modify the HTTP listener configuration.

Input Example

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

{
  "ProxyId": "link-3d85gh",
  "ListenerId": "listener-o0f3at99",
  "ListenerName": "'test-2'"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "38fab584-8d14-4e2c-988c-4acdabbf2dff"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.

InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DescribeUDPListeners

Last updated : 2023-07-13 15:25:32

1. API Description

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

This API (DescribeUDPListeners) is used to query the UDP listener information of a single connection or connection 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: DescribeUDPListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	No	String	Filter condition that filters by connection ID. You must specify at least one filter condition (ProxyId/GroupId/ListenerId), but ProxyId and GroupId cannot be set at the same time.
ListenerId	No	String	Filter condition. Exact query by listener IDs. When ProxyId is specified, the listener will be checked whether it belongs to the connection. When GroupId is specified, the listener will be checked whether it belongs to the connection group.

ListenerName	No	String	Filter condition. Exact query by listener names.
Port	No	Integer	Filter condition. Exact query by listener ports.
Offset	No	Integer	Offset. The default value is 0.
Limit	No	Integer	Quantity limit. The default value is 20.
GroupId	No	String	Filter condition that filters by connection group ID. You must specify at least one filter condition (ProxyId/GroupId/ListenerId), but ProxyId and GroupId cannot be set at the same time.
SearchValue	No	String	Filter condition. It supports fuzzy query by ports or listener names. This parameter cannot be used with <code>ListenerName</code> or <code>Port</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Quantity of listeners
ListenerSet	Array of UDPListener	UDP listener list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying UDP listener list

This example shows you how to query the UDP listener list.

Input Example

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

{
```

```
"ProxyId": "link-hwera8lq",
"ListenerId": "listener-pbsgn7ej"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ListenerSet": [
      {
        "RecvContext": "xx",
        "RealServerType": "xx",
        "CheckPort": 0,
        "ListenerId": "xx",
        "ContextType": "xx",
        "ListenerName": "xx",
        "Port": 1,
        "BindStatus": 1,
        "FailoverSwitch": 0,
        "CheckType": "xx",
        "Scheduler": "xx",
        "RealServerSet": [
          {
            "RealServerStatus": 0,
            "RealServerPort": 111,
            "RealServerId": "xx",
            "RealServerFailoverRole": "master",
            "DownIPList": [
              "11.11.11.11:111"
            ],
            "RealServerWeight": 1,
            "RealServerIP": "xx"
          }
        ],
        "SessionPersist": 1,
        "ConnectTimeout": 1,
        "SendContext": "xx",
        "HealthCheck": 1,
        "HealthyThreshold": 1,
        "DelayLoop": 1,
        "ListenerStatus": 1,
        "Protocol": "xx",
        "RealServerPort": 1,
        "UnhealthyThreshold": 1,
        "CreateTime": 1
      }
    ]
  }
}
```

```
}  
],  
"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 Java](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.

InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeTCPListeners

Last updated : 2023-07-13 15:25:32

1. API Description

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

This API (DescribeTCPListeners) is used to query the TCP listener information of a single connection or connection 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: DescribeTCPListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	No	String	Filter condition that filters by connection ID. You must specify at least one filter condition (ProxyId/GroupId/ListenerId), but ProxyId and GroupId cannot be set at the same time.
ListenerId	No	String	Filter condition. Exact query by listener ID. When ProxyId is specified, the listener will be checked whether it belongs to the connection. When GroupId is specified, the listener will be checked whether it belongs to the connection group.

ListenerName	No	String	Filter condition. Exact query by listener name.
Port	No	Integer	Filter condition. Exact query by listener port.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Quantity limit. The default value is 20.
GroupId	No	String	Filter condition that filters by connection group ID. You must specify at least one filter condition (ProxyId/GroupId/ListenerId), but ProxyId and GroupId cannot be set at the same time.
SearchValue	No	String	Filter condition. It supports fuzzy query by port or listener name. This parameter cannot be used with <code>ListenerName</code> or <code>Port</code> .

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total quantity of listeners that matches the conditions
ListenerSet	Array of TCPListener	TCP listener list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying TCP listener list

This example shows you how to query the TCP listener list.

Input Example

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

{
```

```
"ProxyId": "link-hwera8lq",
"ListenerId": "listener-gkzl9e7t"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "ListenerSet": [
      {
        "HealthyThreshold": 1,
        "BindStatus": 1,
        "SessionPersist": 1,
        "RealServerType": "xx",
        "Protocol": "xx",
        "ConnectTimeout": 1,
        "RealServerPort": 1,
        "HealthCheck": 1,
        "ListenerId": "xx",
        "UnhealthyThreshold": 1,
        "ListenerStatus": 1,
        "ListenerName": "xx",
        "Scheduler": "xx",
        "ClientIPMethod": 1,
        "FailoverSwitch": 1,
        "RealServerSet": [
          {
            "RealServerStatus": 0,
            "RealServerPort": 111,
            "RealServerId": "xx",
            "DownIPList": [
              "11.11.11.11:111"
            ],
            "RealServerWeight": 1,
            "RealServerIP": "xx"
          }
        ],
        "CreateTime": 1,
        "Port": 1,
        "DelayLoop": 1
      }
    ],
    "RequestId": "xx"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeListenerRealServers

Last updated : 2023-07-13 15:25:32

1. API Description

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

This API (DescribeListenerRealServers) is used to query the origin server list of TCP/UDP listeners, including the list of bound origin servers and origin servers that can be bound.

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: DescribeListenerRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of origin servers that can be bound

RealServerSet	Array of RealServer	An information list of origin servers
BindRealServerTotalCount	Integer	Number of bound origin servers
BindRealServerSet	Array of BindRealServer	Information list of bound origin servers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the origin server list of a layer-4 listener

This example shows you how to query the origin server list of a layer-4 listener.

Input Example

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

{
  "ListenerId": "listener-pbsgn7ej"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RealServerSet": [
      {
        "ProjectId": 1,
        "RealServerId": "xx",
        "InBanBlacklist": 0,
        "RealServerName": "xx",
        "RealServerIP": "xx"
      },
      {
        "ProjectId": 1,
```

```
"RealServerId": "xx",
"InBanBlacklist": 0,
"RealServerName": "xx",
"RealServerIP": "xx"
}
],
"BindRealServerTotalCount": 1,
"RequestId": "xx",
"BindRealServerSet": [
{
"RealServerStatus": 1,
"RealServerPort": 80,
"RealServerId": "xx",
"RealServerFailoverRole": "xx",
"DownIPList": [
"1.1.1.1"
],
"RealServerWeight": 0,
"RealServerIP": "xx"
}
]
}
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeHTTPSListeners

Last updated : 2023-07-13 15:25:33

1. API Description

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

This API (DescribeHTTPSListeners) is used to query HTTPS listener 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: DescribeHTTPSListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	No	String	Filter condition. Connection ID.
ListenerId	No	String	Filter condition. Exact query by listener IDs.
ListenerName	No	String	Filter condition. Exact query by listener names.
Port	No	Integer	Filter condition. Exact query by listener ports.
Offset	No	Integer	Offset. The default value is 0
Limit	No	Integer	Quantity limit. The default value is 20.

SearchValue	No	String	Filter condition. It supports fuzzy query by ports or listener names.
GroupId	No	String	Connection group ID as a filter
Http3Supported	No	Integer	<p>Specifies whether to enable HTTP3. Valid values:</p> <ul style="list-style-type: none"> 0 : disable HTTP3; 1 : enable HTTP3. <p>Note: If HTTP3 is enabled for a connection, the listener will use the port that is originally accessed to UDP, and a UDP listener with the same port cannot be created.</p> <p>After the connection is created, you cannot change your HTTP3 setting.</p>

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Quantity of listeners
ListenerSet	Array of HTTPSListener	HTTPS listener list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying HTTPS listener information

This example shows you how to query the HTTPS listener information.

Input Example

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

{
  "ProxyId": "link-n9ha8jz1",
  "Limit": "20",
```

```
"Offset": "0"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 11,
    "ListenerSet": [
      {
        "ForwardProtocol": "HTTPS",
        "ClientCertificateId": "123",
        "CertificateId": "Sv8lFuYh",
        "Protocol": "HTTPS",
        "CertificateAlias": "lagameft01_test Do not delete",
        "AuthType": 0,
        "ListenerId": "listener-eqq49dct",
        "ListenerStatus": 0,
        "ListenerName": "Connectivity test httpstohttps443",
        "ClientCertificateAlias": "sdvadf",
        "CreateTime": 1563340571,
        "Port": 443,
        "PolyClientCertificateAliasInfo": [
          {
            "CertificateId": "123",
            "CertificateAlias": "alis"
          }
        ],
      },
      {
        "ForwardProtocol": "HTTPS",
        "ClientCertificateId": "",
        "CertificateId": "cert-r79xf99t",
        "Protocol": "HTTPS",
        "CertificateAlias": "boris server certificate user001",
        "AuthType": 0,
        "ListenerId": "listener-85646933",
        "ListenerStatus": 0,
        "ListenerName": "testcert001",
        "ClientCertificateAlias": null,
        "CreateTime": 1564201158,
        "Port": 1443,
        "PolyClientCertificateAliasInfo": [
          {
            "CertificateId": "123",
            "CertificateAlias": "alis"
          }
        ],
      }
    ]
  }
}
```

```
}
]
}
],
"RequestId": "db5cebe8-b79a-401c-8704-388776fae938"
}
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.

FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeHTTPListeners

Last updated : 2023-07-13 15:25:33

1. API Description

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

This API (DescribeHTTPListeners) is used to query HTTP listener 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: DescribeHTTPListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	No	String	Connection ID
ListenerId	No	String	Filter condition. Exact query by listener IDs.
ListenerName	No	String	Filter condition. Exact query by listener names.
Port	No	Integer	Filter condition. Exact query by listener ports.
Offset	No	Integer	Offset. The default value is 0.
Limit	No	Integer	Quantity limit. The default value is 20.

SearchValue	No	String	Filter condition. It supports fuzzy query by ports or listener names. This parameter cannot be used with <code>ListenerName</code> or <code>Port</code> .
GroupId	No	String	Connection group ID

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Quantity of listeners
ListenerSet	Array of HTTPListener	HTTP listener list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying HTTP listener information

This example shows you how to query the HTTP listener information.

Input Example

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

{
  "ProxyId": "link-n9ha8jz1",
  "Limit": "20",
  "Offset": "0"
}
```

Output Example

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

```
"TotalCount": 4,
"ListenerSet": [
  {
    "Protocol": "HTTP",
    "ListenerId": "listener-4e99n24b",
    "Port": 80,
    "ListenerStatus": 0,
    "ListenerName": "http80",
    "CreateTime": 1563335063
  },
  {
    "Protocol": "HTTP",
    "ListenerId": "listener-jmi21mrf",
    "Port": 8080,
    "ListenerStatus": 0,
    "ListenerName": "http8080",
    "CreateTime": 1564590945
  },
  {
    "Protocol": "HTTP",
    "ListenerId": "listener-1grasz5",
    "Port": 18080,
    "ListenerStatus": 0,
    "ListenerName": "http18080",
    "CreateTime": 1564590963
  },
  {
    "Protocol": "HTTP",
    "ListenerId": "listener-16z66uqb",
    "Port": 28080,
    "ListenerStatus": 0,
    "ListenerName": "http28080",
    "CreateTime": 1564640821
  }
],
"RequestId": "4c43a7f7-3527-4e2a-9998-bbd363e4b095"
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DeleteListeners

Last updated : 2023-07-13 15:25:33

1. API Description

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

This API (DeleteListeners) is used to batch delete the listeners of a connection or connection group, including layer-4/7 listeners.

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: DeleteListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerIds.N	Yes	Array of String	ID list of listeners to be deleted
Force	Yes	Integer	Whether to allow a forced deletion of listeners that have been bound to origin servers. 1: allowed; 0: not allow.
GroupId	No	String	Connection group ID; Either this parameter or <code>GroupId</code> must be set, but you cannot set both.
ProxyId	No	String	Connection ID; Either this parameter or <code>GroupId</code> must be set, but

you cannot set both.

3. Output Parameters

Parameter Name	Type	Description
OperationFailedListenerSet	Array of String	ID list of listeners failed to be deleted
OperationSucceedListenerSet	Array of String	ID list of listeners deleted successfully
InvalidStatusListenerSet	Array of String	ID list of invalid listeners. For example: the listener does not exist, or the instance corresponding to the listener does not match.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Deleting listeners

This example shows you how to delete a listener.

Input Example

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

{
  "ProxyId": "link-3d85gh",
  "Force": "1",
  "ListenerIds": [
    "listener-o0f3at99"
  ]
}
```

Output Example

```
{
  "Response": {
    "OperationFailedListenerSet": [],
    "OperationSucceedListenerSet": [
      "listener-o0f3at99"
    ],
    "InvalidStatusListenerSet": [],
    "RequestId": "38fab584-8d14-4e2c-988c-4acdabbbf2dff"
  }
}
```

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 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
AuthFailure	CAM signature/authentication error.

AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

CreateUDPListeners

Last updated : 2023-07-13 15:25:33

1. API Description

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

This API (CreateTCPListeners) is used to batch create UDP listeners of single connections or connection groups.

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: CreateUDPListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerName	Yes	String	Listener name
Ports.N	Yes	Array of Integer	List of listener ports
Scheduler	Yes	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrrt</code> (the least-response-time strategy).
RealServerType	Yes	String	The origin server type. Values: <code>IP</code> (IP address); <code>DOMAIN</code>

			(domain name).
ProxyId	No	String	Connection ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
GroupId	No	String	Connection group ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
RealServerPorts.N	No	Array of Integer	List of origin server ports, which only supports the listeners of version 1.0 and connection group.
DelayLoop	No	Integer	Time interval of origin server health check (unit: seconds). Value range: [5, 300].
ConnectTimeout	No	Integer	Response timeout of origin server health check (unit: seconds). Value range: [2, 60]. The timeout value shall be less than the time interval for health check <code>DelayLoop</code> .
HealthyThreshold	No	Integer	Healthy threshold. The number of consecutive successful health checks required before considering an origin server healthy. Value range: 1 - 10.
UnhealthyThreshold	No	Integer	Unhealthy threshold. The number of consecutive failed health checks required before considering an origin server unhealthy. Value range: 1 - 10.
FailoverSwitch	No	Integer	Whether to enable the primary/secondary origin server mode for failover. Values: <code>1</code> (enabled); <code>0</code> (disabled). It's not available if the origin type is <code>DOMAIN</code> .
HealthCheck	No	Integer	Whether the health check is enabled for the origin server. Values: <code>1</code> (enabled); <code>0</code> (disabled).
CheckType	No	String	The health check type. Values: <code>PORT</code> (port); <code>PING</code> (ping).
CheckPort	No	Integer	The health probe port.
ContextType	No	String	The UDP message type. Values: <code>TEXT</code> (text). This parameter is used only when <code>CheckType = PORT</code> .
SendContext	No	String	The UDP message sent by the health probe port. This parameter is used only when <code>CheckType = PORT</code> .
RecvContext	No	String	The UDP message received by the health probe port. This parameter is used only when <code>CheckType = PORT</code> .

3. Output Parameters

Parameter Name	Type	Description
ListenerIds	Array of String	Returns the listener ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating UDP listeners

This example shows you how to create an UDP listener.

Input Example

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

{
  "ProxyId": "link-bjkdum1",
  "RealServerType": "IP",
  "ListenerName": "test1",
  "Scheduler": "rr",
  "Ports": [
    "90"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "9aeda369-17c7-429f-be39-745c1e92fc71",
    "ListenerIds": [
      "listener-o0f3at99"
    ]
  }
}
```

```
}  
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.LimitNumofListener	Limit on the number of listeners exceeded.

FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.OperateLimitNumofListener	Limit on the number of ports for a single operation exceeded.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DuplicatedListenerPort	Listener port already exists.
InvalidParameterValue.InvalidListenerPort	The listener port is not available.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation

CreateTCPListeners

Last updated : 2023-07-13 15:25:33

1. API Description

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

This API (CreateTCPListeners) is used to batch create TCP listeners of single connections or connection groups.

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: CreateTCPListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerName	Yes	String	Listener name.
Ports.N	Yes	Array of Integer	List of listener ports.
Scheduler	Yes	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrrt</code> (the least-response-time strategy).
HealthCheck	Yes	Integer	Whether origin server has the health check enabled. 1:

			enabled; 0: disabled. UDP listeners do not support health check.
RealServerType	Yes	String	The origin server type. Values: <code>IP</code> (IP address); <code>DOMAIN</code> (domain name).
ProxyId	No	String	Connection ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
GroupId	No	String	Connection group ID; Either <code>ProxyId</code> or <code>GroupId</code> must be set, but you cannot set both.
DelayLoop	No	Integer	Time interval of origin server health check (unit: seconds). Value range: [5, 300].
ConnectTimeout	No	Integer	Response timeout of origin server health check (unit: seconds). Value range: [2, 60]. The timeout value shall be less than the time interval for health check DelayLoop.
RealServerPorts.N	No	Array of Integer	List of origin server ports, which only supports the listeners of version 1.0 and connection group.
ClientIPMethod	No	Integer	Listener methods of getting client IPs. 0: TOA; 1: Proxy Protocol.
FailoverSwitch	No	Integer	Whether to enable the primary/secondary origin server mode. Valid values: 1 (enable) and 0 (disable). It cannot be enabled for domain name origin servers.
HealthyThreshold	No	Integer	Healthy threshold. The number of consecutive successful health checks required before considering an origin server healthy. Value range: 1 - 10.
UnhealthyThreshold	No	Integer	Unhealthy threshold. The number of consecutive failed health checks required before considering an origin server unhealthy. Value range: 1 - 10.

3. Output Parameters

Parameter Name	Type	Description
ListenerIds	Array of String	Returns the listener ID

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

4. Example

Example1 Creating TCP listeners

This example shows you how to create a TCP listener.

Input Example

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

{
  "RealServerType": "IP",
  "ConnectTimeout": "20",
  "ProxyId": "link-bjkdum1",
  "HealthCheck": "1",
  "ListenerName": "test1",
  "Scheduler": "rr",
  "Ports": [
    "90"
  ],
  "DelayLoop": "20"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "9aeda369-17c7-429f-be39-745c1e92fc71",
    "ListenerIds": [
      "listener-o0f3at99"
    ]
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.LimitNumofListener	Limit on the number of listeners exceeded.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.

FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.OperateLimitNumofListener	Limit on the number of ports for a single operation exceeded.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.ResourceUpgrading	The resource is being upgraded.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DuplicatedListenerPort	Listener port already exists.
InvalidParameterValue.InvalidListenerPort	The listener port is not available.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnsupportedOperation	Unsupported operation

CreateHTTPSListener

Last updated : 2023-07-13 15:25:34

1. API Description

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

This API (CreateHTTPSListener) is used to create an HTTPS listener in the connection 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: CreateHTTPSListener.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerName	Yes	String	Listener name
Port	Yes	Integer	Listener port, which is based on the listeners of same transport layer protocol (TCP or UDP). The port must be unique.
CertificateId	Yes	String	Server certificate ID
ForwardProtocol	Yes	String	Protocol types of the forwarding from acceleration connection to origin server: HTTP HTTPS

ProxyId	No	String	Connection ID, which cannot be set together with <code>GroupId</code> at the same time. A listener will be created for the corresponding connection.
AuthType	No	Integer	Authentication type, where: 0: one-way authentication; 1: mutual authentication. The one-way authentication is used by default.
ClientCertificateId	No	String	Client CA certificate ID, which is required only when the mutual authentication is adopted.
PolyClientCertificateIds.N	No	Array of String	IDs of multiple new client CA certificates. This field or the <code>ClientCertificateId</code> field is required for mutual authentication only.
GroupId	No	String	Connection group ID, which cannot be set together with <code>ProxyId</code> at the same time. A listener will be created for the corresponding connection group.
Http3Supported	No	Integer	Specifies whether to enable HTTP3. Valid values: <code>0</code> : disable HTTP3; <code>1</code> : enable HTTP3. Note: If HTTP3 is enabled for a connection, the listener will use the port that is originally accessed to UDP, and a UDP listener with the same port cannot be created. After the connection is created, you cannot change your HTTP3 setting.

3. Output Parameters

Parameter Name	Type	Description
ListenerId	String	Created listener 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 HTTPS listener

This example shows you how to create an HTTPS listener.

Input Example

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

{
  "ProxyId": "link-cuxw2rm0",
  "ForwardProtocol": "HTTP",
  "CertificateId": "N4A12mhF",
  "ListenerName": "listener-1",
  "Port": "443"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "9aeda369-17c7-429f-be39-745c1e92fc71",
    "ListenerId": "listener-o0f3at99"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.LimitNumofListener	Limit on the number of listeners exceeded.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DuplicatedListenerPort	Listener port already exists.
InvalidParameterValue.InvalidCertificateId	Certificate unavailable.
InvalidParameterValue.InvalidListenerPort	The listener port is not available.
MissingParameter	Missing parameter.

ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation

CreateHTTPListener

Last updated : 2023-07-13 15:25:34

1. API Description

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

This API (CreateHTTPListener) is used to create an HTTP listener in the connection 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: CreateHTTPListener.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerName	Yes	String	Listener name
Port	Yes	Integer	Listener port, which is based on the listeners of same transport layer protocol (TCP or UDP). The port must be unique.
ProxyId	No	String	Connection ID, which cannot be set together with <code>GroupId</code> at the same time. A listener will be created for the corresponding connection.
GroupId	No	String	Connection group ID, which cannot be set together with <code>ProxyId</code> at the same time. A listener will be created for the corresponding connection group.

3. Output Parameters

Parameter Name	Type	Description
ListenerId	String	Created listener 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 HTTP listener

This example shows you how to create an HTTP listener.

Input Example

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

{
  "ProxyId": "link-cuxw2rm0",
  "ListenerName": "listener-1",
  "Port": "443"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "9aeda369-17c7-429f-be39-745c1e92fc71",
    "ListenerId": "listener-o0f3at99"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.LimitNumofListener	Limit on the number of listeners exceeded.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.

FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.DuplicatedListenerPort	Listener port already exists.
InvalidParameterValue.InvalidListenerPort	The listener port is not available.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnsupportedOperation	Unsupported operation

BindListenerRealServers

Last updated : 2023-07-13 15:25:34

1. API Description

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

This API (BindListenerRealServers) is used for the TCP/UDP listener to bind/unbind the origin server.

Note: This API unbinds the previously bound origin servers, and binds the origin servers selected for this call. For example, the previously bound origin servers are A, B and C, and the origin servers selected for this call are C, D and E, then the origin servers bound after this call will be C, D and E.

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: BindListenerRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
RealServerBindSet.N	No	Array of RealServerBindSetReq	List of origin servers to be bound. If the origin server scheduling policy type of this listener is weighted round robin, you need to enter the <code>RealServerWeight</code> , i.e., the origin

		server weight. If this field is left empty or for other scheduling types, the default origin server weight is 1.
--	--	--

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 Binding a listener to origin servers

This example shows you how to bind a listener to one or more origin servers.

Input Example

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

{
  "RealServerBindSet": [
    {
      "RealServerWeight": "1",
      "RealServerId": "rs-04v3s12t",
      "RealServerPort": "80",
      "RealServerIP": "119.28.69.101",
      "RealServerFailoverRole": "master"
    }
  ],
  "ListenerId": "listener-pbsgn7ej"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1f1e794d-a35e-41d2-8f40-fe32a2077329"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRunning	Unable to operate: the connection group is not running.

FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.LimitRealServerNum	Limit on the number of bound origin servers exceeded.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.HitBanBlacklist	The resource has been added to the blacklist.
InvalidParameterValue.RealServerNotBelong	The origin server does not belong to this user.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

Rule APIs

SetAuthentication

Last updated : 2023-07-13 15:25:25

1. API Description

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

This API (SetAuthentication) is used for the advanced authentication configuration of connections, including authentication methods and their certificates. It only supports connections of version 3.0.

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: SetAuthentication.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID.
Domain	Yes	String	The domain name requiring advanced configuration, i.e., the domain name of the listener's forwarding rules.
BasicAuth	No	Integer	Whether to enable the basic authentication:

			0: disable basic authentication; 1: enable basic authentication. The default value is 0.
GaapAuth	No	Integer	Whether to enable the connection authentication, which is for the origin server to authenticate GAAP. 0: disable; 1: enable. The default value is 0.
RealServerAuth	No	Integer	Whether to enable the origin server authentication, which is for GAAP to authenticate the server. 0: disable; 1: enable. The default value is 0.
BasicAuthConfId	No	String	Basic authentication configuration ID, which is obtained from the certificate management page.
GaapCertificateId	No	String	Connection SSL certificate ID, which is obtained from the certificate management page.
RealServerCertificateId	No	String	CA certificate ID of the origin server, which is obtained from the certificate management page. When authenticating the origin server, enter this parameter or the <code>RealServerCertificateIds</code> parameter.
RealServerCertificateDomain	No	String	This field has been disused. Use <code>ServerNameIndication</code> instead.
PolyRealServerCertificateIds.N	No	Array of String	CA certificate IDs of multiple origin servers, which are obtained from the certificate management page. When authenticating the origin servers, enter this parameter or the <code>RealServerCertificateId</code> parameter.

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 Advanced authentication configuration

Input Example

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

{
  "Domain": "a.a.com",
  "GaapAuth": "1",
  "GaapCertificateId": "xxx",
  "ListenerId": "0",
  "BasicAuthConfId": "xxx",
  "BasicAuth": "1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

5. Developer Resources

SDK

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ActionIsDoing	The operation is being performed. Do not perform it again.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.ProxyVersionNotSupport	This version of connection is not supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidCertificateId	Certificate unavailable.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.

ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

ModifyRuleAttribute

Last updated : 2023-07-13 15:25:25

1. API Description

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

This API (ModifyRuleAttribute) is used to modify forwarding rule information, including health check configuration and forwarding policies.

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: ModifyRuleAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
RuleId	Yes	String	Forwarding rule ID
Scheduler	No	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections

			strategy), <code>lrrt</code> (the least-response-time strategy).
HealthCheck	No	Integer	Whether to enable the origin server health check: 1: enable; 0: disable.
CheckParams	No	RuleCheckParams	Health check configuration parameters
Path	No	String	Forwarding rule path
ForwardProtocol	No	String	Protocol types of the forwarding from acceleration connection to origin server, which supports default, HTTP and HTTPS. If <code>ForwardProtocol=default</code> , the <code>ForwardProtocol</code> of the listener will be used.
ForwardHost	No	String	The forwarding host, which is carried in the request forwarded from the acceleration connection to the origin server. If <code>ForwardHost=default</code> , the domain name configured with the forwarding rule will be used. For other cases, the value set in this field will be used.
ServerNameIndicationSwitch	No	String	Specifies whether to enable Server Name Indication (SNI). Valid values: <code>ON</code> (enable) and <code>OFF</code> (disable).
ServerNameIndication	No	String	Server Name Indication (SNI). This field is required when <code>ServerNameIndicationSwitch</code> is <code>ON</code> .
ForcedRedirect	No	String	Enables HTTP-to-HTTPS force redirect for a forwarding rule. Enter a hostname and path of the current forwarding rule.

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 forwarding rule information

Modify the forwarding rule information.

Input Example

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

```
{
  "RuleId": "rule-5g8dh58",
  "HealthCheck": "0",
  "ListenerId": "listener-8fueuc9",
  "CheckParams": {
    "Domain": "string",
    "ConnectTimeout": "12",
    "Path": "str",
    "Method": "string",
    "DelayLoop": "1",
    "StatusCode": [
      "1"
    ]
  },
  "Scheduler": "rr",
  "Path": "/"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

```
}  
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not

	allowed.
FailedOperation.RuleAlreadyExisted	Rule already exists.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

ModifyDomain

Last updated : 2023-07-13 15:25:25

1. API Description

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

This API (ModifyDomain) is used to modify domain names of listeners. For connections of version 3.0, it supports modifying certificates of the domain names.

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: ModifyDomain.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Layer-7 listener ID
OldDomain	Yes	String	Original domain name information
NewDomain	Yes	String	New domain name information
CertificateId	No	String	Server SSL certificate ID. It's only applicable to the connections of version 3.0: If this field is not passed in, the original certificate will be used;

			<p>If this field is passed in, and CertificateId=default, the listener certificate will be used;</p> <p>For other cases, the certificate specified by CertificateId will be used.</p>
ClientCertificateId	No	String	<p>Client CA certificate ID. It's only applicable to the connections of version 3.0:</p> <p>If this field is not passed in, the original certificate will be used;</p> <p>If this field is passed in, and ClientCertificateId=default, the listener certificate will be used;</p> <p>For other cases, the certificate specified by ClientCertificateId will be used.</p>
PolyClientCertificateIds.N	No	Array of String	<p>Client CA certificate ID. It is only applicable to connections on version 3.0, where:</p> <p>If this field and <code>ClientCertificateId</code> are not included, the original certificate will be used;</p> <p>If this field is included, and ClientCertificateId=default, then the listener certificate will be used;</p> <p>In other cases, the certificate specified by <code>ClientCertificateId</code> or <code>PolyClientCertificateIds</code> will be used.</p>

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 forwarding rule domain name of a layer-7 listener

This example shows you how to modify the forwarding rule domain name of a layer-7 listener.

Input Example

```
POST / HTTP/1.1
Host: gaap.tencentcloudapi.com
```

```
Content-Type: application/json
X-TC-Action: ModifyDomain
<Common request parameters>

{
  "OldDomain": "a.a.com",
  "CertificateId": "default",
  "ListenerId": "0",
  "NewDomain": "b.b.com"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

5. Developer Resources

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DomainAlreadyExisted	The domain name is used by a listener.
FailedOperation.DomainStatusNotInRunning	Operation unavailable: the domain name is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.InvalidListenerProtocol	Invalid listener protocol.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CertificateNotMatchDomain	The HTTP certificate does not match the domain name.
InvalidParameterValue.DomainInIcpBlacklist	The domain name is blocked for ICP issues.
InvalidParameterValue.DomainNotRegister	The domain name does not have an ICP filing.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

ModifyCertificate

Last updated : 2023-07-13 15:25:25

1. API Description

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

This API (ModifyCertificate) is used to modify a domain name certificate of a listener. domain name certificate. This API is only applicable to connections of version 3.0.

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: ModifyCertificate.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener instance ID
Domain	Yes	String	Domain name whose certificate needs to be modified
CertificateId	Yes	String	New server certificate ID: If CertificateId=default, using the listener certificate.
ClientCertificateId	No	String	New client certificate ID: If ClientCertificateId=default, using the listener certificate.

			This parameter is required only when the mutual authentication is adopted.
PolyClientCertificateIds.N	No	Array of String	List of new IDs of multiple client certificates, where: This parameter or the <code>ClientCertificateId</code> parameter is required for mutual authentication only.

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 domain name certificate

Input Example

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

{
  "Domain": "www.test.com",
  "CertificateId": "cert-12345678",
  "ClientCertificateId": "cert-abcdefgh",
  "ListenerId": "listener-xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

5. Developer Resources

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DomainStatusNotInRunning	Operation unavailable: the domain name is not running.
FailedOperation.GroupStatusNotInRunning	Unable to operate: the connection group is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ProxyStatusNotInRunning	Unable to add listeners: the connection is not running.

FailedOperation.ProxyVersionNotSupport	This version of connection is not supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CertificateNotMatchDomain	The HTTP certificate does not match the domain name.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeRules

Last updated : 2023-07-13 15:25:26

1. API Description

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

This API (DescribeRules) is used to query all rule information of a listener, including the domain names, paths, and list of bound origin servers. For version 3.0 connections, this API returns the advanced authentication configuration information of the domain name.

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: DescribeRules.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Layer-7 listener ID.

3. Output Parameters

Parameter Name	Type	Description
DomainRuleSet	Array of	Rule information list classified by domain name type

	DomainRuleSet	
TotalCount	Integer	Total quantity of domain names under this listener
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying forwarding rule information

Input Example

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

{
  "ListenerId": "listener-9jt0rtv9"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DomainRuleSet": [
      {
        "GaapCertificateAlias": "xx",
        "Http3Supported": 0,
        "Domain": "xx",
        "CertificateId": "xx",
        "PolyRealServerCertificateAliasInfo": [
          {
            "CertificateId": "xx",
            "CertificateAlias": "xx"
          }
        ],
        "RealServerCertificateId": "xx",
        "BanStatus": "xx",
        "CertificateAlias": "xx",
        "ClientCertificateId": "xx",
```

```
"GaapCertificateId": "xx",
"BasicAuth": 1,
"BasicAuthConfAlias": "xx",
"BasicAuthConfId": "xx",
"RealServerCertificateAlias": "xx",
"RuleSet": [
{
"BindStatus": 1,
"Domain": "xx",
"RealServerType": "xx",
"ForwardHost": "xx",
"RuleId": "xx",
"HealthCheck": 1,
"ServerNameIndication": "xx",
"ListenerId": "xx",
"CheckParams": {
"Domain": "xx",
"ConnectTimeout": 1,
"BlockInter": 1,
"FailedThreshold": 1,
"Path": "xx",
"FailedCountInter": 1,
"Method": "xx",
"DelayLoop": 1,
"StatusCode": [
1,
1,
1,
1,
1
]
},
"ForcedRedirect": "1",
"Scheduler": "xx",
"Path": "xx",
"RuleStatus": 1,
"ServerNameIndicationSwitch": "xx",
"RealServerSet": [
{
"RealServerStatus": 0,
"RealServerPort": 234,
"RealServerId": "xx",
"RealServerFailoverRole": "xx",
"DownIPList": [
"xx"
],
"RealServerWeight": 1,
```

```
"RealServerIP": "xx"
},
{
  "RealServerStatus": 0,
  "RealServerPort": 424,
  "RealServerId": "xx",
  "RealServerWeight": 1,
  "RealServerFailoverRole": "xx",
  "DownIPList": [
    "xx"
  ],
  "RealServerIP": "xx"
}
]
}
],
"PolyClientCertificateAliasInfo": [
  {
    "CertificateId": "xx",
    "CertificateAlias": "xx"
  }
],
"GaapAuth": 1,
"ClientCertificateAlias": "xx",
"RealServerAuth": 1,
"RealServerCertificateDomain": "xx",
"DomainStatus": 1
}
],
"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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeRuleRealServers

Last updated : 2023-07-13 15:25:26

1. API Description

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

This API (DescribeRuleRealServers) is used to query forwarding rules-related origin server information, including information of origin servers that can be bound and have been bound.

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: DescribeRuleRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RuleId	Yes	String	Forwarding rule ID
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 1000.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Quantity of origin servers that can be bound
RealServerSet	Array of RealServer	Information list of origin servers that can be bound
BindRealServerTotalCount	Integer	Quantity of bound origin servers
BindRealServerSet	Array of BindRealServer	Bound origin server 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 origin server information of forwarding rules

This example shows you how to query the origin server information of forwarding rules.

Input Example

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

{
  "RuleId": "rule-hh5xg2yd"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RealServerSet": [
      {
        "ProjectId": 1,
        "RealServerId": "xx",
        "InBanBlacklist": 0,
        "RealServerName": "xx",

```

```
"RealServerIP": "xx"
},
{
  "ProjectId": 1,
  "RealServerId": "xx",
  "InBanBlacklist": 0,
  "RealServerName": "xx",
  "RealServerIP": "xx"
}
],
"BindRealServerTotalCount": 1,
"RequestId": "xx",
"BindRealServerSet": [
  {
    "RealServerStatus": 1,
    "RealServerPort": 234,
    "RealServerId": "xx",
    "RealServerFailoverRole": "xx",
    "DownIPList": [
      "xx"
    ],
    "RealServerWeight": 1,
    "RealServerIP": "xx"
  },
  {
    "RealServerStatus": 1,
    "RealServerPort": 424,
    "RealServerId": "xx",
    "RealServerWeight": 1,
    "RealServerFailoverRole": "xx",
    "DownIPList": [
      "xx"
    ],
    "RealServerIP": "xx"
  }
]
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceUpgrading	The resource is being upgraded.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and

email for details.

DeleteRule

Last updated : 2023-07-13 15:25:27

1. API Description

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

This API (DeleteRule) is used to delete the forwarding rules of HTTP/HTTPS listeners.

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: DeleteRule.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Layer-7 listener ID
RuleId	Yes	String	Forwarding rule ID
Force	Yes	Integer	Whether to make a forced deletion of forwarding rules that have been bound to origin servers. 0: no; 1: yes.

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 forwarding rule of a layer-7 listener

This example shows you how to delete a forwarding rule of a layer-7 listener.

Input Example

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

{
  "Force": "1",
  "ListenerId": "0",
  "RuleId": "rule-18vhg67"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DomainStatusNotInRunning	Operation unavailable: the domain name is not running.
FailedOperation.GroupStatusNotInRunning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRunning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxyStatusNotInRunning	Unable to add listeners: the connection is not running.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.

InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DeleteDomain

Last updated : 2023-07-13 15:25:27

1. API Description

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

This API (DeleteDomain) is only applicable to layer-7 listeners. It is used to delete the domain names of this listener, and all the rules under the domain name. All rules bound to the origin server are unbound automatically.

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: DeleteDomain.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
Domain	Yes	String	Domain name to be deleted
Force	Yes	Integer	Whether to make a forced deletion of forwarding rules that have been bound to origin servers. 0: no; 1: yes. When not making a forced deletion, if there are rules bound to origin servers, they will not 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 forwarding rules based on domain names

Input Example

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

{
  "Domain": "a.a.com",
  "Force": "1",
  "ListenerId": "0"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DomainStatusNotInRunning	Operation unavailable: the domain name is not running.
FailedOperation.GroupStatusNotInRunning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRunning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxyStatusNotInRunning	Unable to add listeners: the connection is not running.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.

InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

CreateRule

Last updated : 2023-07-13 15:25:28

1. API Description

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

This API (CreateRule) is used to create the forwarding rules of HTTP/HTTPS listeners.

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: CreateRule.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Layer-7 listener ID
Domain	Yes	String	Domain name of the forwarding rule
Path	Yes	String	Path of the forwarding rule
RealServerType	Yes	String	The origin server type of the forwarding rule, which supports IP and DOMAIN types.

Scheduler	Yes	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy).
HealthCheck	Yes	Integer	Whether the health check is enabled for rules. 1: enabled; 0: disabled.
CheckParams	No	RuleCheckParams	Parameters related to origin server health check
ForwardProtocol	No	String	Protocol types of the forwarding from acceleration connection to origin server, which supports HTTP or HTTPS. If this field is not passed in, it indicates that the ForwardProtocol of the corresponding listener will be used.
ForwardHost	No	String	The host to which the acceleration connection forwards. If this parameter is not specified, the default host will be used, i.e., the host with which the client initiates HTTP requests.
ServerNameIndicationSwitch	No	String	Whether to enable SNI. Values: <code>on</code> (enable), <code>off</code> (disable). For creation of HTTP listener forwarding rules, SNI is disabled by default.
ServerNameIndication	No	String	Server Name Indication (SNI). This field is required when <code>ServerNameIndicationSwitch</code> is <code>ON</code> .
ForcedRedirect	No	String	Enables HTTP-to-HTTPS force redirect for a forwarding rule. Enter a hostname and path of the current forwarding rule.

3. Output Parameters

Parameter Name	Type	Description

RuleId	String	The ID of the successfully created forwarding rule
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a listener forwarding rule

This example shows you how to create an HTTP/HTTPS listener forwarding rule.

Input Example

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

{
  "Domain": "www.bbb.com",
  "RealServerType": "IP",
  "HealthCheck": "1",
  "ListenerId": "listener-9jt0rtv9",
  "CheckParams": {
    "ConnectTimeout": "4",
    "Path": "%2F",
    "Method": "HEAD",
    "DelayLoop": "39",
    "StatusCode": [
      "300",
      "100",
      "400",
      "200",
      "500"
    ]
  },
  "Scheduler": "rr",
  "Path": "%2Fimage"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "f3ab4984-dfe0-4c6f-aca0-32100550f6fd",
    "RuleId": "rule-qws4fmyl"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Python](#)
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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.

FailedOperation.ActionOperateTooQuickly	Too many attempts. Please try again later.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.LimitNumofRules	Limit on the number of forwarding rules exceeded.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.RuleAlreadyExisted	Rule already exists.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

CreateDomain

Last updated : 2023-07-13 15:25:28

1. API Description

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

This API (CreateDomain) is used to create the access domain name for the HTTP/HTTPS listener. Clients request the backend data by accessing this domain.

This API only supports connections of version 3.0.

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: CreateDomain.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID.
Domain	Yes	String	Domain name to be created. Each listener supports up to 100 domain names.
CertificateId	No	String	Server certificate, which is used for the HTTPS interaction between client and GAAP.
ClientCertificateId	No	String	Client CA certificate, which is used for the HTTPS

			interaction between client and GAAP. This field is required only when the mutual authentication method is adopted.
PolyClientCertificateIds.N	No	Array of String	Client CA certificate, which is used for the HTTPS interaction between the client and GAAP. This field or the <code>ClientCertificateId</code> field is required for mutual authentication only.
Http3Supported	No	Integer	Specifies whether to enable HTTP3. Valid values: <code>0</code> : disable HTTP3; <code>1</code> : enable HTTP3. HTTP3 is not enabled by default. You can enable it with this field <code>SetDomainHttp3</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 CreateDomain

Input Example

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

{
  "Domain": "a.a.com",
  "CertificateId": "abc",
  "ListenerId": "0"
}
```


Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

5. Developer Resources

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.

FailedOperation.DomainAlreadyExisted	The domain name is used by a listener.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.InvalidListenerProtocol	Invalid listener protocol.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxyVersionNotSupport	This version of connection is not supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CertificateNotMatchDomain	The HTTP certificate does not match the domain name.
InvalidParameterValue.DomainInIcpBlacklist	The domain name is blocked for ICP issues.
InvalidParameterValue.DomainNotRegister	The domain name does not have an ICP filing.
InvalidParameterValue.L7DomainHitBanBlacklist	The domain name has been blocked and cannot be added.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

BindRuleRealServers

Last updated : 2023-07-13 15:25:28

1. API Description

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

This API is used to bind an origin server to the forwarding rules of layer-7 listeners. Note: This API unbinds all previously bound origin servers before binding those selected.

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: BindRuleRealServers.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RuleId	Yes	String	Forwarding rule ID
RealServerBindSet.N	No	Array of RealServerBindSetReq	An information list of the origin servers to bind. If there are origin servers bound already, they will be replaced by this new origin server list. If this field is empty, it indicates unbinding all origin servers of this rule.

		<p>If the origin server scheduling policy type of this rule is weighted round robin, you need to enter <code>RealServerWeight</code> , i.e., the origin server weight. If this field is left empty or for other scheduling types, the default origin server weight is 1.</p>
--	--	--

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 Binding a forwarding rule to origin servers

This example shows you how to bind a forwarding rule to origin servers.

Input Example

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

{
  "RealServerBindSet": [
    {
      "RealServerWeight": "1",
      "RealServerId": "rs-i3658cdf",
      "RealServerIP": "1.1.1.1",
      "RealServerPort": "80"
    }
  ],
  "RuleId": "0"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DomainStatusNotInRunning	Operation unavailable: the domain name is not running.

FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.HitBanBlacklist	The resource has been added to the blacklist.
InvalidParameterValue.RealServerNotBelong	The origin server does not belong to this user.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeDomainErrorPageInfo

Last updated : 2023-07-13 15:25:26

1. API Description

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

This API is used to query the custom error response to a domain name.

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: DescribeDomainErrorPageInfo.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
Domain	Yes	String	Domain name

3. Output Parameters

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

ErrorPageSet	Array of DomainErrorPageInfo	Configuration set of a custom error response 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 DescribeDomainErrorPageInfo

Input Example

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

{
  "Domain": "a.com",
  "ListenerId": "0"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "8d9f4d84-b825-4a4f-8c4c-3c87c559c84c",
    "ErrorPageSet": [
      {
        "Body": "str",
        "Domain": "test.domain",
        "ClearHeaders": [
          "MyClearHeader",
          "MyClearHeader1"
        ],
        "ListenerId": "listener-23egjhx",
        "ErrorNos": [
          501,
          502
        ],
        "Status": 1,
        "ErrorPageId": "errorPage-lhlnux1v",

```



```
"NewErrorNo": 123,
"SetHeaders": [
  {
    "HeaderName": "MyName",
    "HeaderValue": "MyValue"
  },
  {
    "HeaderName": "MyName1",
    "HeaderValue": "MyValue1"
  }
]
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
------------	-------------

AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DeleteDomainErrorPageInfo

Last updated : 2023-07-13 15:25:27

1. API Description

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

This API is used to delete a custom error code for a domain name.

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: DeleteDomainErrorPageInfo.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ErrorPageId	Yes	String	Unique ID of a custom error page. For more information, please see the response to CreateDomainErrorPageInfo.

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 DeleteDomainErrorPageInfo

Input Example

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

{
  "ErrorPageId": "'errorPage-xxxx'"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.ProxyVersionNotSupport	This version of connection is not supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

CreateDomainErrorPageInfo

Last updated : 2023-07-13 15:25:28

1. API Description

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

This API is used to customize the error code of an error response to the specified domain name.

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: CreateDomainErrorPageInfo.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
Domain	Yes	String	Domain name
ErrorNos.N	Yes	Array of Integer	Original error code
Body	Yes	String	New response packet
NewErrorNo	No	Integer	New error code

ClearHeaders.N	No	Array of String	Response header to be deleted
SetHeaders.N	No	Array of HTTPHeaderParam	Response header to be set

3. Output Parameters

Parameter Name	Type	Description
ErrorPageId	String	Configuration ID of a custom error response
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 CreateDomainErrorPageInfo

Input Example

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

{
  "Body": "helloworld",
  "Domain": "a.com",
  "ListenerId": "0",
  "ErrorNos": [
    "502",
    "501"
  ],
  "NewErrorNo": "400"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8",
    "ErrorPageId": "errorPage-1fewf"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.

FailedOperation.InvalidListenerProtocol	Invalid listener protocol.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.ProxyVersionNotSupport	This version of connection is not supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeRulesByRuleIds

Last updated : 2023-07-13 15:25:25

1. API Description

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

This API is used to pull the list of rules based on rule ID. It supports pulling 1 to 10 rules at a time.

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: DescribeRulesByRuleIds.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RuleIds.N	Yes	Array of String	List of rule IDs. Up to 10 rules are supported.

3. Output Parameters

Parameter Name	Type	Description

TotalCount	Integer	The number of returned rules.
RuleSet	Array of RuleInfo	List of returned rules.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Pulling the list of rules based on rule ID

Input Example

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

{
  "RuleIds": [
    "rule-3bsuu01r"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RuleSet": [
      {
        "BindStatus": 1,
        "Domain": "xx",
        "RealServerType": "xx",
        "ForwardHost": "xx",
        "RuleId": "xx",
        "HealthCheck": 1,
        "ServerNameIndication": "xx",
        "ListenerId": "xx",
        "CheckParams": {
          "Domain": "xx",
          "ConnectTimeout": 1,

```

```
"BlockInter": 1,
"FailedThreshold": 1,
"Path": "xx",
"FailedCountInter": 1,
"Method": "xx",
"DelayLoop": 1,
"StatusCode": [
  1,
  1,
  1,
  1,
  1
]
},
"ForcedRedirect": "xx",
"Scheduler": "xx",
"Path": "xx",
"RuleStatus": 1,
"ServerNameIndicationSwitch": "xx",
"RealServerSet": [
  {
    "RealServerStatus": 0,
    "RealServerPort": 0,
    "RealServerId": "xx",
    "RealServerFailoverRole": "xx",
    "DownIPList": [
      "xx"
    ],
    "RealServerWeight": 0,
    "RealServerIP": "xx"
  }
]
},
"RequestId": "xx"
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

DescribeDomainErrorPageInfoByIds

Last updated : 2023-07-13 15:25:26

1. API Description

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

This API is used to query the corresponding error response by a custom error ID.

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: DescribeDomainErrorPageInfoByIds.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ErrorPageIds.N	Yes	Array of String	List of custom error IDs. Up to 10 IDs are supported

3. Output Parameters

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

ErrorPageSet	Array of DomainErrorPageInfo	Configuration set of custom error responses 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 DescribeDomainErrorPageInfoByIds

Input Example

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

{
  "ErrorPageIds": [
    "errorPage-lhlnux1v"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "8d9f4d84-b825-4a4f-8c4c-3c87c559c84c",
    "ErrorPageSet": [
      {
        "Body": "sx",
        "Status": 0,
        "Domain": "test.domain",
        "ClearHeaders": [
          "MyClearHeader",
          "MyClearHeader1"
        ],
        "ListenerId": "listener-23egjhx",
        "ErrorNos": [
          501,
          502
        ]
      }
    ]
  }
}
```



```
"ErrorPageId": "errorPage-lhlnux1v",
"NewErrorNo": 4123,
"SetHeaders": [
  {
    "HeaderName": "MyName",
    "HeaderValue": "MyValue"
  },
  {
    "HeaderName": "MyName1",
    "HeaderValue": "MyValue1"
  }
]
}
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DescribeCustomHeader

Last updated : 2023-07-13 15:25:27

1. API Description

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

This API is used to query the list of custom headers.

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: DescribeCustomHeader.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
RuleId	String	Rule ID Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

Headers	Array of HTTPHeaderParam	List of custom headers 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 Queries a list of custom headers

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8",
    "RuleId": "rule-18vhg67",
    "Headers": [
      {
        "HeaderName": "X-REAL_IP",
        "HeaderValue": "$remote_addr"
      },
      {
        "HeaderName": "X-FORWARD-IP",
        "HeaderValue": "192.168.2.101"
      }
    ]
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and

	email for details.
UnknownParameter	Unknown parameter.

DescribeBlackHeader

Last updated : 2023-07-13 15:25:27

1. API Description

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

This API is used to query names of blocked custom headers.

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: DescribeBlackHeader.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
BlackHeaders	Array of String	List of blocked custom headers 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 Queries the list of blocked custom headers

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8",
    "BlackHeaders": [
      "X-Forward-For",
      "allow"
    ]
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

CreateCustomHeader

Last updated : 2023-07-13 15:25:28

1. API Description

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

This API is used to create a custom header of the HTTP/HTTPS listener. When client requests reach the listener, they will be forwarded to the origin with this custom header.

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: CreateCustomHeader.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RuleId	Yes	String	Rule ID
Headers.N	No	Array of HTTPHeaderParam	Custom header name and content list. <code>''\$remote_addr''</code> will be resolved and replaced with the client IP. Other values will be directly passed to the origin server.

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 CreateDomain

Input Example

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

{
  "RuleId": "rule-18vhg67",
  "Headers": [
    {
      "HeaderName": "X-REAL_IP",
      "HeaderValue": "$remote_addr"
    },
    {
      "HeaderName": "X-FORWARD-IP",
      "HeaderValue": "192.168.2.101"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.GroupStatusNotInRunning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRunning	Unable to operate: the connection is not running.
FailedOperation.InvalidListenerProtocol	Invalid listener protocol.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.

FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalServerError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.HitBlacklist	The header is blocklisted.
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

Connection Group APIs

ModifyProxyGroupAttribute

Last updated : 2023-07-13 15:25:35

1. API Description

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

This API (ModifyProxyGroupAttribute) is used to modify connection group attributes. It currently only supports modifying connection group name.

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: ModifyProxyGroupAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required for this API.
GroupId	Yes	String	ID of the connection group to be modified.
GroupName	No	String	New connection group name. Up to 30 characters. The extra characters will be truncated.
ProjectId	No	Integer	Project 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 Modifying connection group name

Input Example

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

{
  "GroupName": "newName",
  "GroupId": "lg-b7h4d02f"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "19a021f8-dff3-4890-8e7a-ed5054e22e49"
  }
}
```

Example2 Modifying a connection group name

Input Example

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

```
{
  "GroupName": "test",
  "GroupId": "lg-pheemnc1"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "e26d0984-af79-4403-8c51-11d075b7c1e8"
  }
}
```

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 NodeJS](#)
- [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

AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

ModifyGroupDomainConfig

Last updated : 2023-07-13 15:25:35

1. API Description

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

This API (ModifyGroupDomainConfig) is used to configure the nearest access domain name of a connection 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: ModifyGroupDomainConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required for this API.
GroupId	Yes	String	Connection group ID.
DefaultDnsIp	Yes	String	Default access IP or domain name of domain name resolution
AccessRegionList.N	No	Array of AccessRegionDomainConf	Nearest access region configuration.

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 Configuring the nearest access domain name of a connection group

Input Example

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

{
  "DefaultDnsIp": "1.1.1.1",
  "GroupId": "lg-b7h4d02f",
  "AccessRegionList": [
    {
      "RegionId": "111"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "74b5f95c-e976-4f78-b2ee-aad49eb844c4"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.

ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeProxyGroupList

Last updated : 2023-07-13 15:25:35

1. API Description

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

This API (DescribeProxyGroupList) is used to pull the list of connection groups and the basic information of each connection 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: DescribeProxyGroupList.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
Offset	Yes	Integer	Offset. The default value is 0.
Limit	Yes	Integer	Number of returned results. The default value is 20. The maximum value is 100.
ProjectId	Yes	Integer	Project ID. Value range: -1: all projects of this user 0: default project Other values: specified project

Filters.N	No	Array of Filter	<p>Filter condition</p> <p>Each request can have a maximum of 5 filter conditions for <code>Filter.Values</code>.</p> <p><code>RealServerRegion</code> - String - Required: No - Filter by origin server region. You can also check the value of <code>RegionId</code> returned by the <code>DescribeDestRegions</code> API.</p> <p><code>PackageType</code> - String - Required: No - Filter by type of connection groups, which can be <code>Thunder</code> (general connection group) or <code>Accelerator</code> (silver connection group).</p>
TagSet.N	No	Array of TagPair	<p>Tag list. If this field exists, the list of the resources with the tag will be pulled.</p> <p>It supports up to 5 tags. If there are two or more tags, the connection groups tagged any of them will be pulled.</p>

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of connection groups.
ProxyGroupList	Array of ProxyGroupInfo	List of connection groups. 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 connection groups

Input Example

```
https://gaap.tencentcloudapi.com/?Action=DescribeProxyGroupList
&ProjectId=0
&Offset=0
&Limit=20
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "TotalCount": 2,
    "RequestId": "8b6bb93c-0dce-4513-a274-1410f276307c",
    "ProxyGroupList": [
      {
        "Status": 0,
        "Domain": null,
        "ProjectId": 0,
        "GroupName": "t4",
        "TagSet": [],
        "RealServerRegionInfo": {
          "RegionId": "EastChina",
          "RegionName": "EastChina",
          "RegionArea": "EastChina",
          "RegionAreaName": "EastChina",
          "IDCType": "ec"
        },
        "GroupId": "lg-mh4k07v5"
      },
      {
        "Status": 0,
        "Domain": null,
        "ProjectId": 0,
        "GroupName": "sandytest2",
        "TagSet": [],
        "RealServerRegionInfo": {
          "RegionId": "EastChina",
          "RegionName": "EastChina",
          "RegionArea": "EastChina",
          "RegionAreaName": "EastChina",
          "IDCType": "ec"
        },
        "GroupId": "lg-d5y6ei3b"
      }
    ]
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and

	email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeProxyGroupDetails

Last updated : 2023-07-13 15:25:35

1. API Description

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

This API (DescribeProxyGroupDetails) is used to query connection group 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: DescribeProxyGroupDetails.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	Connection group ID.

3. Output Parameters

Parameter Name	Type	Description
ProxyGroupDetail	ProxyGroupDetail	Connection group details

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

4. Example

Example1 Querying connection group details

Input Example

```
https://gaap.tencentcloudapi.com/?Action=DescribeProxyGroupDetails
&GroupId=lg
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "xx",
    "ProxyGroupDetail": {
      "Status": 0,
      "Http3Supported": 0,
      "Domain": "xx",
      "ClientIPMethod": [
        0
      ],
      "RealServerRegionInfo": {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      },
      "TagSet": [
        {
          "TagKey": "xx",
          "TagValue": "xx"
        }
      ],
      "ProxyNum": 0,
      "CreateUin": "xx",
      "PackageType": "xx",
      "OwnerUin": "xx",
      "GroupId": "xx",
    }
  }
}
```

```
"GroupName": "xx",
"Version": "xx",
"PolicyId": "xx",
"IsOldGroup": false,
"ProjectId": 0,
"IPAddressVersion": "xx",
"CreateTime": 1552978237,
"DnsDefaultIp": "xx"
}
}
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.

AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeGroupDomainConfig

Last updated : 2023-07-13 15:25:35

1. API Description

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

This API (DescribeGroupDomainConfig) is used to obtain the domain name resolution configuration details of a connection 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: DescribeGroupDomainConfig.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required for this API.
GroupId	Yes	String	Connection group ID.

3. Output Parameters

Parameter Name	Type	Description
AccessRegionList	Array of	Nearest access configuration list of domain name

	DomainAccessRegionDict	resolution.
DefaultDnsIp	String	Default accesses Ip.
GroupId	String	Connection group ID.
AccessRegionCount	Integer	Total number of configuration of access regions.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining domain name resolution configuration details of connection group

Input Example

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

{
  "GroupId": "lg-b7h4d02f"
}
```

Output Example

```
{
  "Response": {
    "DefaultDnsIp": "lg-na2d00jf",
    "AccessRegionCount": 2,
    "RequestId": "74b5f95c-e976-4f78-b2ee-aad49eb844c4",
    "AccessRegionList": [
      {
        "NationCountryInnerList": [
          {
            "NationCountryName": "North China",
            "NationCountryInnerCode": "101001"
          },
          {
            "NationCountryName": "East China",
            "NationCountryInnerCode": "101002"
          }
        ]
      }
    ]
  }
}
```



```
},
{
  "NationCountryName": "South China",
  "NationCountryInnerCode": "101003"
},
{
  "NationCountryName": "West China",
  "NationCountryInnerCode": "101004"
}
],
"ContinentInnerCode": "100000",
"RegionId": "EastChina",
"GeographicalZoneInnerCode": "101000",
"ProxyList": [
  {
    "ProxyId": "link-4lzfc731"
  }
],
"RegionName": "East China"
},
{
  "NationCountryInnerList": [
    {
      "NationCountryName": "Australia",
      "NationCountryInnerCode": "401000"
    },
    {
      "NationCountryName": "New Zealand",
      "NationCountryInnerCode": "401001"
    }
  ],
  "ContinentInnerCode": "400000",
  "RegionId": "SL_Australia",
  "GeographicalZoneInnerCode": "401000",
  "ProxyList": [
    {
      "ProxyId": "link-ozvhjhp1"
    }
  ],
  "RegionName": "Australia (Sydney)"
}
],
"GroupId": "lg-na2d00jf"
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceUpgrading	The resource is being upgraded.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeCountryAreaMapping

Last updated : 2023-07-13 15:25:36

1. API Description

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

This API (DescribeCountryAreaMapping) is used to obtain the country/region code mapping 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: DescribeCountryAreaMapping.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
CountryAreaMappingList	Array of CountryAreaMap	Country/region code mapping table
RequestId	String	The unique request ID, which is returned for each request.

RequestId is required for locating a problem.

4. Example

Example1 Obtaining country/region code mapping table

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "RequestId": "bdc19c0-74db-47b1-a07c-bbe6985ef44c",
    "CountryAreaMappingList": [
      {
        "Remark": "1",
        "NationCountryName": "Fiji Islands",
        "GeographicalZoneInnerCode": "401000",
        "ContinentName": "Oceania",
        "ContinentInnerCode": "400000",
        "NationCountryInnerCode": "401012",
        "GeographicalZoneName": "Oceania"
      }
    ]
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

UnknownParameter	Unknown parameter.
------------------	--------------------

DeleteProxyGroup

Last updated : 2023-07-13 15:25:36

1. API Description

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

This API (DeleteProxyGroup) is used to delete a connection 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: DeleteProxyGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
GroupId	No	String	ID of the connection group to be deleted.
Force	No	Integer	Whether to enable forced deletion. Valid values: <code>0</code> : No; <code>1</code> : Yes. Default value: 0. If there is a connection or listener/rule bound to an origin server in the connection group and <code>Force</code> is 0, the operation will return a failure.

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 connection group

This example shows you how to delete a connection group by its group ID.

Input Example

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

{
  "Force": "0",
  "GroupId": "lg-b7h4d02f"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "19a021f8-dff3-4890-8e7a-ed5054e22e49"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.DeleteProxyGroupProxyRemained	Unable to delete: the connection group contains groups.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.

MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

CreateProxyGroupDomain

Last updated : 2023-07-13 15:25:36

1. API Description

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

This API (CreateProxyGroupDomain) is used to create the connection group domain name, and enable the domain name resolution.

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: CreateProxyGroupDomain.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required for this API.
GroupId	Yes	String	Connection group ID of the domain name to be enabled.

3. Output Parameters

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

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

4. Example

Example1 Enabling connection group domain name

Input Example

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

{
  "GroupId": "lg-b7h4d02f"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "19a021f8-dff3-4890-8e7a-ed5054e22e49",
    "GroupId": "lg-ok10h0n1"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

CreateProxyGroup

Last updated : 2023-07-13 15:25:36

1. API Description

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

This API (CreateProxyGroup) is used to create a connection 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: CreateProxyGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	Project ID of connection group
GroupName	Yes	String	Alias of connection group
RealServerRegion	Yes	String	Origin server region; Reference API: DescribeDestRegions; It returns the <code>RegionId</code> of the parameter <code>RegionDetail</code> .
TagSet.N	No	Array of TagPair	List of tags

AccessRegionSet.N	No	Array of AccessConfiguration	List of acceleration regions, including their names, bandwidth, and concurrence configuration.
IPAddressVersion	No	String	IP version. Valid values: <code>IPv4</code> (default), <code>IPv6</code> .
PackageType	No	String	Package type of connection group. Valid values: <code>Thunder</code> (default) and <code>Accelerator</code> .
Http3Supported	No	Integer	(Disused) HTTP3.0 is supported by default when <code>IPAddressVersion</code> is <code>IPv4</code> .

3. Output Parameters

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

4. Example

Example1 Creating a connection group

Input Example

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

{
  "ProjectId": "0",
  "RealServerRegion": "EastChina",
  "GroupName": "test"
}
```

Output Example


```
{
  "Response": {
    "RequestId": "19a021f8-dff3-4890-8e7a-ed5054e22e49",
    "GroupId": "lg-negxun2x"
  }
}
```

Example2 CreateProxyGroup

Input Example

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

```
{
  "Http3Supported": "0",
  "ProjectId": "0",
  "RealServerRegion": "Shanghai",
  "GroupName": "benny-test",
  "PackageType": "Thunder",
  "IPAddressVersion": "IPv4",
  "AccessRegionSet": [
    {
      "NetworkType": "normal",
      "Bandwidth": "10",
      "AccessRegion": "Guangzhou",
      "Concurrent": "2"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1858c87c-2110-430d-bd09-f86091127fe0",
    "GroupId": "lg-cj8rn2up"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.LimitNumofProxiesInGroup	The number of connections in the connection group exceeded the limit.
FailedOperation.TagResourcesFailed	Failed to add the tag to the resource.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.

InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FeatureConflict	The features to be enabled conflict with each other.
InvalidParameterValue.InvalidTags	The tag is not found or you have no access permission to it.
LimitExceeded.TagQuota	Insufficient tags
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

OpenProxyGroup

Last updated : 2023-07-13 15:25:34

1. API Description

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

This API is used to enable all connections in a connection 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: OpenProxyGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	Connection group instance ID

3. Output Parameters

Parameter Name	Type	Description
InvalidStatusInstanceSet	Array of String	The connection instance ID list cannot be enabled if it's not disabled.
OperationFailedInstanceSet	Array of	ID list of connection instances failed to be enabled.

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

4. Example

Example1 Enabling connection group

Input Example

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

{
  "GroupId": "lg-11112222"
}
```

Output Example

```
{
  "Response": {
    "OperationFailedInstanceSet": [],
    "RequestId": "7daaa62c-7c4b-40d9-a22e-90de42bde58d",
    "InvalidStatusInstanceSet": []
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalServerError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
UnknownParameter	Unknown parameter.

CloseProxyGroup

Last updated : 2023-07-13 15:25:36

1. API Description

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

This API is used to disable a connection group. Once disabled, the connection group will no longer generate traffic, but the basic connection configuration fees will still be incurred every day.

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: CloseProxyGroup.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	Connection group instance ID.

3. Output Parameters

Parameter Name	Type	Description
InvalidStatusInstanceSet	Array of String	List of IDs of the connection instances that are not running, which cannot be enabled.

OperationFailedInstanceSet	Array of String	List of IDs of the connection instances failed to be enabled.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling a connection group

Input Example

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

{
  "GroupId": "lg-111xxxx"
}
```

Output Example

```
{
  "Response": {
    "OperationFailedInstanceSet": [],
    "RequestId": "888fe1bb-be58-4a80-90b9-24a0398633c6",
    "InvalidStatusInstanceSet": []
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

UnknownParameter

Unknown parameter.

Connection APIs

OpenSecurityPolicy

Last updated : 2023-07-13 15:25:37

1. API Description

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

This API is used to enable a security policy.

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: OpenSecurityPolicy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	No	String	ID of the connections requiring enabled security policies.
PolicyId	No	String	Security policy ID

3. Output Parameters

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

Name		
TaskId	String	Async Process ID. Using DescribeAsyncTaskStatus to query process and status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling security policy

Input Example

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

{
  "ProxyId": "link-xxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "bdc19c0-74db-47b1-a07c-bbe6985ef44c",
    "TaskId": "1234.2"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ActionIsDoing	The operation is being performed. Do not perform it again.
FailedOperation.ProxySecurityAlreadyOpen	The security policy has been enabled. Do not repeat the operation.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox

	and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

OpenProxies

Last updated : 2023-07-13 15:25:37

1. API Description

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

This API (OpenProxies) is used to enable one or more connections.

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: OpenProxies.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
Instancelds.N	No	Array of String	List of connection instance IDs; It's an old parameter, please switch to Proxylds.
ClientToken	No	String	A string used to ensure the idempotency of the request, which is generated by the user and must be unique to each request. The maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence .
Proxylds.N	No	Array of	List of connection instance IDs; It's a new parameter.

		String	
--	--	--------	--

3. Output Parameters

Parameter Name	Type	Description
InvalidStatusInstanceSet	Array of String	The connection instance ID list cannot be enabled if it's not disabled.
OperationFailedInstanceSet	Array of String	ID list of connection instances failed to be enabled.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Enabling connection

Input Example

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

{
  "ProxyIds": [
    "link-11113333",
    "link-11112222"
  ]
}
```

Output Example

```
{
  "Response": {
    "OperationFailedInstanceSet": [],
    "RequestId": "7daaa62c-7c4b-40d9-a22e-90de42bde58d",
    "InvalidStatusInstanceSet": []
  }
}
```



```
}  
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.

FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation.CrossBorderInIsolating	The CUCC cross-MLC-border connection expired and is isolated.
UnknownParameter	Unknown parameter.

ModifySecurityRule

Last updated : 2023-07-13 15:25:37

1. API Description

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

This API is used to modify security policy rule names.

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: ModifySecurityRule.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
RuleId	Yes	String	Rule ID
AliasName	Yes	String	Rule name: up to 30 characters. The extra characters will be truncated.
PolicyId	Yes	String	Security policy ID
RuleAction	No	String	Security rule action
SourceCidr	No	String	A CIDR IP address associated with the rule
Protocol	No	String	Protocol type

DestPortRange	No	String	Port range. Valid values: A single port: 80 Multiple ports: 80 and 443 Consecutive ports: 3306-20000 All ports: ALL
---------------	----	--------	---

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 rule name

Input Example

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

{
  "Protocol": "TCP",
  "SourceCidr": "180.180.180.180/8",
  "RuleId": "sr-xxxx",
  "DestPortRange": "ALL",
  "AliasName": "t3",
  "PolicyId": "sp-xxxx",
  "RuleAction": "ACCEPT"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1eea4c85-e088-4512-9c6c-480dff91677e"
  }
}
```

```
}  
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxySecurityPolicyDefaultRule	Failed to add the rule: default connection access rules cannot be denied.

FailedOperation.ProxySecurityPolicyDuplicatedRule	Failed to add rules: repeated security protection access rules.
FailedOperation.ProxySecurityPolicyOperating	There are ongoing operations related to the connection security policy.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalServerError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

ModifyProxyConfiguration

Last updated : 2023-07-13 15:25:37

1. API Description

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

This API (ModifyProxyConfiguration) is used to modify connection configurations. You can expand or reduce the capacity based on current business requirements. It only supports connections with a Scalable of 1. Scalable can be obtained via DescribeProxies API.

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: ModifyProxyConfiguration.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
Instanceid	No	String	Connection instance ID; It's an old parameter, please switch to ProxyId.
Bandwidth	No	Integer	Target bandwidth. Unit: Mbps. Bandwidth or Concurrent must be set. Use the DescribeAccessRegionsByDestRegion API to obtain the value range.
Concurrent	No	Integer	Target concurrence value. Unit: 10,000 connections. Bandwidth or Concurrent must be set. Use the

			DescribeAccessRegionsByDestRegion API to obtain the value range.
ClientToken	No	String	A string used to ensure the idempotency of the request, which is generated by the user and must be unique to each request. The maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence.
ProxyId	No	String	Connection instance ID; It's a new parameter.
BillingType	No	Integer	Billing mode (0: bill-by-bandwidth, 1: bill-by-traffic. Default value: bill-by-bandwidth)

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 connection configuration

Input Example

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

{
  "ProxyId": "link-4ftf12sb",
  "Concurrent": "2",
  "Bandwidth": "10"
}
```

Output Example


```
{
  "Response": {
    "RequestId": "967ef39b-b096-4338-a1c9-4b42977dde0e"
  }
}
```

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](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.

FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.Migration	The acceleration connection is being upgraded. To change the configuration, please submit a ticket.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.NotSupportScalar	The configuration change is not supported.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

ModifyProxiesProject

Last updated : 2023-07-13 15:25:37

1. API Description

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

This API (ModifyProxiesProject) is used to modify the project to which a connection belongs.

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: ModifyProxiesProject.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	The target project ID.
InstanceIds.N	No	Array of String	ID of one or multiple connections to be operated; It's an old parameter, please switch to ProxyIds.
ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified, the idem-potency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence .

ProxyIds.N	No	Array of String	ID of one or multiple connections to be operated; It's a new parameter.
------------	----	-----------------	---

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 connection project

Input Example

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

{
  "ProjectId": "12345",
  "ProxyIds": [
    "link-11113333",
    "link-11112222"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "59224cc0-082c-4f00-adb3-dbe4fe9fe478"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.

InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

ModifyProxiesAttribute

Last updated : 2023-07-13 15:25:38

1. API Description

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

This API (ModifyProxiesAttribute) is used to modify instance attributes (currently only supports modifying connection name).

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: ModifyProxiesAttribute.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
InstanceIds.N	No	Array of String	ID of one or multiple connections to be operated; It's an old parameter, please switch to ProxyIds.
ProxyName	No	String	Connection name. Up to 30 characters.
ClientToken	No	String	A string used to ensure the idempotency of the request, which is generated by the user and must be unique to each request. The maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence.

ProxyIds.N	No	Array of String	ID of one or multiple connections to be operated; It's a new parameter.
------------	----	-----------------	---

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 connection attributes

Input Example

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

{
  "ProxyName": "test",
  "ProxyIds": [
    "link-11113333",
    "link-11112222"
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "04d1af8f-5c76-4053-acbc-62bdf0541c15"
  }
}
```


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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.

InternalServerError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.ProjectIdNotBelong	The project does not belong to this user.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

InquiryPriceCreateProxy

Last updated : 2023-07-13 15:25:38

1. API Description

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

This API (InquiryPriceCreateProxy) is used to create the price inquiries of acceleration connections.

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: InquiryPriceCreateProxy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
AccessRegion	Yes	String	Acceleration region name.
Bandwidth	Yes	Integer	Connection bandwidth cap. Unit: Mbps.
DestRegion	No	String	Origin server region name. It's an old parameter, please switch to RealServerRegion.
Concurrency	No	Integer	Upper limit of connection concurrence, which indicates a number of simultaneous online connections. Unit: 10,000 connections. It's an old parameter, please switch to Concurrent.
RealServerRegion	No	String	Origin server region name; It's a new parameter.

Concurrent	No	Integer	Upper limit of connection concurrence, which indicates a number of simultaneous online connections. Unit: 10,000 connections. It's a new parameter.
BillingType	No	Integer	Billing mode. Valid values: 0: bill-by-bandwidth (default value); 1: bill-by-traffic.
IPAddressVersion	No	String	IP version. Valid values: <code>IPv4</code> (default), <code>IPv6</code> .
NetworkType	No	String	Network type. Valid values: <code>normal</code> (default), <code>cn2</code>
PackageType	No	String	Package type of connection groups. Valid values: <code>Thunder</code> (general), <code>Accelerator</code> (specific for games), and <code>CrossBorder</code> (cross-MLC-border connection).
Http3Supported	No	Integer	(Disused) HTTP3.0 is supported by default when <code>IPAddressVersion</code> is <code>IPv4</code> .

3. Output Parameters

Parameter Name	Type	Description
ProxyDailyPrice	Float	Basic price of connection in USD/day.
BandwidthUnitPrice	Array of BandwidthPriceGradient	Tiered price of connection bandwidth. Note: this field may return null, indicating that no valid values can be obtained.
DiscountProxyDailyPrice	Float	Discounted basic price of connection in USD/day.
Currency	String	Currency, which supports CNY, USD, etc.
FlowUnitPrice	Float	Connection traffic price in USD/GB. Note: this field may return null, indicating that no valid values can be obtained.
DiscountFlowUnitPrice	Float	Discounted connection traffic price in USD/GB. Note: this field may return null, indicating that no valid values can be obtained.
Cn2BandwidthPrice	Float	Dedicated BGP bandwidth price. Unit: USD/Mbps/day

		Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
Cn2BandwidthPriceWithDiscount	Float	Dedicated BGP bandwidth discount price. Unit: USD/Mbps/day 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 price for creating an acceleration connection

Input Example

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

{
  "Concurrency": "2",
  "Bandwidth": "10",
  "RealServerRegion": "SouthChina",
  "AccessRegion": "EastChina"
}
```

Output Example

```
{
  "Response": {
    "Cn2BandwidthPrice": 0.0,
    "Cn2BandwidthPriceWithDiscount": 0.0,
    "ProxyDailyPrice": 80.64,
    "FlowUnitPrice": 0.0,
    "Currency": "xx",
    "DiscountProxyDailyPrice": 56.84,
    "RequestId": "xx",
    "DiscountFlowUnitPrice": 0.0,
    "BandwidthUnitPrice": [
```

```
{
  "BandwidthRange": [
    0,
    20
  ],
  "BandwidthUnitPrice": 0.0,
  "DiscountBandwidthUnitPrice": 0.0
},
{
  "BandwidthRange": [
    20,
    100
  ],
  "BandwidthUnitPrice": 0.0,
  "DiscountBandwidthUnitPrice": 0.0
},
{
  "BandwidthRange": [
    100,
    500
  ],
  "BandwidthUnitPrice": 0.0,
  "DiscountBandwidthUnitPrice": 0.0
},
{
  "BandwidthRange": [
    500,
    2000
  ],
  "BandwidthUnitPrice": 0.0,
  "DiscountBandwidthUnitPrice": 0.0
},
{
  "BandwidthRange": [
    2000,
    0
  ],
  "BandwidthUnitPrice": 0.0,
  "DiscountBandwidthUnitPrice": 0.0
}
]
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceUpgrading	The resource is being upgraded.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.

InvalidParameterValue.InvalidBandwidth	The bandwidth value is not in the range.
InvalidParameterValue.InvalidConcurrency	The number of concurrences is not in the range.
InvalidParameterValue.UnknownAccessRegion	The acceleration region is not found or you have no access permission to it.
InvalidParameterValue.UnknownDestRegion	The origin server region is not found or you have no access permission to it.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DestroyProxies

Last updated : 2023-07-13 15:25:38

1. API Description

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

This API (DestroyProxies) is used to terminate a connection. If terminated, no fees will be incurred.

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: DestroyProxies.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
Force	Yes	Integer	The identifier for forced deletion 1: this connection list is deleted forcibly regardless of whether the origin server has been bound. 0: this connection list cannot be deleted if the origin server has been bound. If this identifier is 0, the deletion can be performed only when all the connections have not been bound to any origin servers.
Instancelds.N	No	Array of String	List of connection instance IDs; It's an old parameter, please switch to Proxylds.

ClientToken	No	String	A string used to ensure the idempotency of the request, which is generated by the user and must be unique to each request. The maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence.
ProxyIds.N	No	Array of String	List of connection instance IDs; It's a new parameter.

3. Output Parameters

Parameter Name	Type	Description
InvalidStatusInstanceSet	Array of String	ID list of connection instances that cannot be terminated.
OperationFailedInstanceSet	Array of String	ID list of connection instances that failed to be terminated.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Terminating connection

Input Example

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

{
  "Force": "1",
  "ProxyIds": [
    "link-11113333",
    "link-11112222"
  ]
}
```

Output Example

```
{
  "Response": {
    "OperationFailedInstanceSet": [],
    "RequestId": "d4228b1a-8b3b-43d6-a8e7-272d158ff332",
    "InvalidStatusInstanceSet": [
      "link-11112222"
    ]
  }
}
```

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](#)
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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
AuthFailure	CAM signature/authentication error.

AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.ActionIsDoing	The operation is being performed. Do not perform it again.
FailedOperation.BelongDifferentGroup	Unable to operate in batches: the connections belong to different groups.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

DescribeSecurityPolicyDetail

Last updated : 2023-07-13 15:25:39

1. API Description

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

This API is used to obtain security policy 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: DescribeSecurityPolicyDetail.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
PolicyId	Yes	String	Security policy ID

3. Output Parameters

Parameter Name	Type	Description
ProxyId	String	Connection ID

		Note: This field may return null, indicating that no valid values can be obtained.
Status	String	Security policy status: BOUND (security policies enabled) UNBIND (security policies disabled) BINDING (enabling security policies) UNBINDING (disabling security policies)
DefaultAction	String	Default policy: ACCEPT or DROP.
PolicyId	String	Policy ID
RuleList	Array of SecurityPolicyRuleOut	List of rules
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining security policy details

Input Example

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

{
  "PolicyId": "sp-xxxx"
}
```

Output Example

```
{
  "Response": {
    "Status": "UNBIND",
    "ProxyId": "link-gw4sxx8j",
    "DefaultAction": "ACCEPT",
    "RequestId": "1eea4c85-e088-4512-9c6c-480dff91677e",
    "RuleList": [
```

```
{
  "Action": "DROP",
  "DestPortRange": "ALL",
  "SourceCidr": "2.2.2.2",
  "AliasName": "test1",
  "RuleId": "sr-bf0yxxpp",
  "PolicyId": "ssavdf",
  "Protocol": "string"
},
"PolicyId": "sp-9scxxhdh"
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.

AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeProxyDetail

Last updated : 2023-07-13 15:25:39

1. API Description

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

This API (DescribeProxyDetail) is used to query connection 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: DescribeProxyDetail.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	Yes	String	Connection ID to be queried.

3. Output Parameters

Parameter Name	Type	Description
ProxyDetail	ProxyInfo	Connection details

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

4. Example

Example1 Querying connection details

Input Example

```
https://gaap.tencentcloudapi.com/?Action=DescribeProxyDetail
&ProxyId=link-12345678
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "ProxyDetail": {
      "AccessRegionInfo": {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      },
      "RelatedGlobalDomains": [
        "xx"
      ],
      "Version": "xx",
      "PolicyId": "xx",
      "Scalarable": 1,
      "IPList": [
        {
          "IP": "xx",
          "Bandwidth": 0,
          "Provider": "xx"
        }
      ],
      "Status": "xx",
      "ProxyType": 1,
      "ForwardIP": "xx",
      "ProxyId": "xx",
      "RealServerRegion": "xx",
```

```
"Concurrent": 2,
"RealServerRegionInfo": {
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
"IP": "xx",
"Http3Supported": 0,
"InBanBlacklist": 0,
"AccessRegion": "xx",
"ProjectId": 0,
"BillingType": 0,
"SupportProtocols": [
  "TCP",
  "UDP"
],
"PackageType": "xx",
"Domain": "xx",
"IPAddressVersion": "xx",
"BanStatus": "xx",
"CreateTime": 1,
"InstanceId": "xx",
"Bandwidth": 10,
"SupportSecurity": 1,
"TagSet": [
  {
    "TagKey": "xx",
    "TagValue": "xx"
  }
],
"ClientIPMethod": [
  0
],
"ProxyName": "xx",
"NetworkType": "xx",
"ModifyConfigTime": 1,
"GroupId": "xx"
},
"RequestId": "xx"
}
```

Example2 Querying connection group details

Input Example

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

{
  "ProxyId": "link-4m6fx36h"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "fe6deb4c-3bf9-4b92-9bec-047d44d8d7c4",
    "ProxyDetail": {
      "InstanceId": "link-4m6fx36h",
      "ProxyId": "link-4m6fx36h",
      "CreateTime": 1646712299,
      "ProjectId": 0,
      "ProxyName": "test8",
      "ProxyType": 100,
      "AccessRegion": "Guangzhou",
      "RealServerRegion": "Shanghai",
      "Bandwidth": 10,
      "NetworkType": "normal",
      "Concurrent": 2,
      "Status": "RUNNING",
      "Domain": "link-4m6fx36h.gaapacc.com.cn",
      "IP": "1.14.225.21",
      "IPList": [
        {
          "IP": "1.14.225.21",
          "Provider": "BGP",
          "Bandwidth": 10
        }
      ],
      "AccessRegionInfo": {
        "RegionId": "Guangzhou",
        "RegionName": "Guangzhou (formerly Chinese mainland - South China)",
        "RegionArea": "SouthChina",
        "RegionAreaName": "SouthChina",
        "IDCType": "dc",
        "FeatureBitmap": 79
      }
    }
  }
}
```

```
},
"RealServerRegionInfo": {
  "RegionId": "Shanghai",
  "RegionName": "Shanghai (formerly Chinese mainland - East China)",
  "RegionArea": "EastChina",
  "RegionAreaName": "EastChina",
  "IDCType": "dc",
  "FeatureBitmap": 79
},
"TagSet": [],
"ModifyConfigTime": 1646712299,
"IPAddressVersion": "IPv4",
"PackageType": "Thunder",
"BanStatus": "RECOVER",
"Http3Supported": 0,
"InBanBlacklist": 0,
"ClientIPMethod": [
  0,
  1
],
"GroupId": null,
"PolicyId": "sp-nahrld9t",
"Version": "3.0",
"SupportProtocols": [
  "TCP",
  "UDP"
],
"Scalarable": 1,
"SupportSecurity": 1,
"BillingType": 0,
"RelatedGlobalDomains": [
  "gd-rv1p5ak9.gaapacc.com.cn"
],
"ForwardIP": "124.222.196.15;124.221.127.42;"
}
}
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ActionIsDoing	The operation is being performed. Do not perform it again.
FailedOperation.ActionOperateTooQuickly	Too many attempts. Please try again later.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.ProjectIdNotBelong	The project does not belong to this user.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DescribeProxyAndStatisticsListeners

Last updated : 2023-07-13 15:25:39

1. API Description

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

This is an internal API. It is used to query the information of connections and listeners from which the statistics can be derived.

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: DescribeProxyAndStatisticsListeners.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	Project ID

3. Output Parameters

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

ProxySet	Array of ProxySimpleInfo	Information of connections that the statistics can be derived from
TotalCount	Integer	Quantity of connections
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 listeners and connections from which the statistics can be derived

This example shows you how to query the information of listeners and connections from which the statistics can be derived.

Input Example

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

{
  "ProjectId": "0"
}
```

Output Example

```
{
  "Response": {
    "ProxySet": [
      {
        "ProxyId": "link-mmu241ob",
        "ProxyName": "wegame",
        "ListenerList": [
          {
            "ListenerId": "listener-lmifrrmh",
            "ListenerName": "wegame",
            "Protocol": "HTTP",
            "Port": 80
          }
        ]
      }
    ]
  }
}
```

```
}
],
"RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd",
"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](#)
- [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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.

InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DescribeProxiesStatus

Last updated : 2023-07-13 15:25:39

1. API Description

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

This API (DescribeProxiesStatus) is used to query the connection status 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: DescribeProxiesStatus.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
InstanceIds.N	No	Array of String	Connection ID list; It's an old parameter, please switch to ProxyIds.
ProxyIds.N	No	Array of String	Connection ID list; It's a new parameter.

3. Output Parameters

--	--	--

Parameter Name	Type	Description
InstanceStatusSet	Array of ProxyStatus	Connection status list.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying connection status

Input Example

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

{
  "ProxyIds": [
    "link-1234abcd"
  ]
}
```

Output Example

```
{
  "Response": {
    "InstanceStatusSet": [
      {
        "InstanceId": "link-4ftf12sb",
        "Status": "RUNNING"
      }
    ],
    "RequestId": "caac3323-bda3-4edc-b063-f584eb5936a2"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.

ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeProxies

Last updated : 2023-07-13 15:25:39

1. API Description

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

This API (DescribeProxies) is used to query the connection instance 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: DescribeProxies.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required for this API.
InstanceIds.N	No	Array of String	Queries by one or multiple instance IDs. The upper limit on the number of instances for each request is 100. This parameter does not support specifying InstanceIds and Filters at the same time. It's an old parameter, please switch to ProxyIds.
Offset	No	Integer	Offset. Default value: 0.
Limit	No	Integer	Number of returned results. Default value: 20. Maximum value: 100.
Filters.N	No	Array of Filter	Filters The upper limit on Filters for each request is 10, and the upper limit on Filter.Values is 5. This parameter does not support specifying

			<p>Instancelds and Filters at the same time.</p> <p>ProjectId - String - Required: No - Filter by a project ID.</p> <p>AccessRegion - String - Required: No - Filter by an access region.</p> <p>RealServerRegion - String - Required: No - Filter by an origin server region.</p> <p>GroupId - String - Required: No - Filter by a connection group ID.</p> <p>IPAddressVersion - String - Required: No - Filter by IP version.</p> <p>PackageType - String - Required: No - Filter by package type of connection groups.</p>
ProxyIds.N	No	Array of String	<p>Queries by one or multiple instance IDs. The upper limit on the number of instances for each request is 100. This parameter does not support specifying Instancelds and Filters at the same time. It's a new parameter, and replaces Instancelds.</p>
TagSet.N	No	Array of TagPair	<p>Tag list. If this field exists, the list of the resources with the tag will be pulled.</p> <p>It supports up to 5 tags. If there are two or more tags, the connections tagged any of them will be pulled.</p>
Independent	No	Integer	<p>When this field is 1, only not-grouped connections are pulled.</p> <p>When this field is 0, only grouped connections are pulled.</p> <p>When this field does not exist, all connections are pulled, including both not-grouped and grouped connections.</p>
Order	No	String	<p>Specifies how connections are listed. Valid values:</p> <p><code>asc</code> : Ascending order</p> <p><code>desc</code> : Descending order</p> <p>Default: <code>desc</code></p>
OrderField	No	String	<p>Sorting field. Valid values:</p> <p><code>create_time</code> : Sort by creation time</p> <p><code>proxy_id</code> : Sort by connection ID</p> <p><code>bandwidth</code> :Sort by bandwidth limit</p> <p><code>concurrent_connections</code> : Sort by number of concurrent connections</p> <p>Default: <code>create_time</code></p>

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of connections.

InstanceSet	Array of ProxyInfo	Connection instance information list; It's an old parameter, please switch to ProxySet.
ProxySet	Array of ProxyInfo	Connection instance information list; It's a new parameter.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying connection list

Input Example

```
https://gaap.tencentcloudapi.com/?Action=DescribeProxies
&Offset=0
&Limit=1
&Filters.0.Name=AccessRegion
&Filters.0.Values.0=ap-hongkong
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "InstanceSet": [
      {
        "AccessRegionInfo": {
          "RegionId": "xx",
          "RegionAreaName": "xx",
          "IDCType": "xx",
          "FeatureBitmap": 1,
          "RegionArea": "xx",
          "RegionName": "xx"
        },
        "RelatedGlobalDomains": [
          "xx"
        ],
        "Version": "xx",
        "PolicyId": "xx",
        "Scalarable": 1,
        "IPList": [
```

```
{
  "IP": "xx",
  "Bandwidth": 0,
  "Provider": "xx"
},
{
  "Status": "xx",
  "ProxyType": 1,
  "ForwardIP": "xx",
  "ProxyId": "xx",
  "RealServerRegion": "xx",
  "Concurrent": 2,
  "RealServerRegionInfo": {
    "RegionId": "xx",
    "RegionAreaName": "xx",
    "IDCType": "xx",
    "FeatureBitmap": 1,
    "RegionArea": "xx",
    "RegionName": "xx"
  },
  "IP": "xx",
  "Http3Supported": 0,
  "InBanBlacklist": 0,
  "AccessRegion": "xx",
  "ProjectId": 0,
  "BillingType": 0,
  "SupportProtocols": [
    "TCP",
    "UDP",
    "HTTP",
    "HTTPS"
  ],
  "PackageType": "xx",
  "Domain": "xx",
  "IPAddressVersion": "xx",
  "BanStatus": "xx",
  "CreateTime": 1,
  "InstanceId": "xx",
  "Bandwidth": 10,
  "SupportSecurity": 0,
  "TagSet": [
    {
      "TagKey": "xx",
      "TagValue": "xx"
    }
  ],
  "ClientIPMethod": [
```

```
0
],
"ProxyName": "xx",
"NetworkType": "xx",
"ModifyConfigTime": 1,
"GroupId": "xx"
}
],
"TotalCount": 1,
"ProxySet": [
{
"AccessRegionInfo": {
"RegionId": "xx",
"RegionAreaName": "xx",
"IDCType": "xx",
"FeatureBitmap": 1,
"RegionArea": "xx",
"RegionName": "xx"
},
"RelatedGlobalDomains": [
"xx"
],
"Version": "xx",
"PolicyId": "xx",
"Scalarable": 1,
"IPList": [
{
"IP": "xx",
"Bandwidth": 0,
"Provider": "xx"
}
],
>Status": "xx",
"ProxyType": 1,
"ForwardIP": "xx",
"ProxyId": "xx",
"RealServerRegion": "xx",
"Concurrent": 2,
"RealServerRegionInfo": {
"RegionId": "xx",
"RegionAreaName": "xx",
"IDCType": "xx",
"FeatureBitmap": 1,
"RegionArea": "xx",
"RegionName": "xx"
},
"IP": "xx",
```

```
"Http3Supported": 0,
"InBanBlacklist": 0,
"AccessRegion": "xx",
"ProjectId": 0,
"BillingType": 0,
"SupportProtocols": [
  "TCP",
  "UDP",
  "HTTP",
  "HTTPS"
],
"PackageType": "xx",
"Domain": "xx",
"IPAddressVersion": "xx",
"BanStatus": "xx",
"CreateTime": 1,
"InstanceId": "xx",
"Bandwidth": 10,
"SupportSecurity": 0,
"TagSet": [
  {
    "TagKey": "xx",
    "TagValue": "xx"
  }
],
"ClientIPMethod": [
  0
],
"ProxyName": "xx",
"NetworkType": "xx",
"ModifyConfigTime": 1,
"GroupId": "xx"
}
],
"RequestId": "xx"
}
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalServerError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeDestRegions

Last updated : 2023-07-13 15:25:40

1. API Description

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

This API (DescribeDestRegions) is used to query an origin server region (i.e., the region in which the origin server locates).

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: DescribeDestRegions.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total number of origin server regions

DestRegionSet	Array of RegionDetail	List of origin server region details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying custom header list

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DestRegionSet": [
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      }
    ],
    "RequestId": "xx"
  }
}
```

Example2 Querying origin server regions

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DestRegionSet": [
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      },
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      },
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      },
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      }
    ]
  }
}
```



```
"RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
}
],
"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 Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeAccessRegionsByDestRegion

Last updated : 2023-07-13 15:25:40

1. API Description

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

This API is used to query the available accelerator region based on the origin server 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: DescribeAccessRegionsByDestRegion.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
DestRegion	Yes	String	Origin server region: the DescribeDestRegions API returns the value of <code>RegionId</code> field of <code>DestRegionSet</code> .
IPAddressVersion	No	String	IP version. Valid values: <code>IPv4</code> (default), <code>IPv6</code> .
PackageType	No	String	Package type of connection groups. Valid values: <code>Thunder</code> (general), <code>Accelerator</code> (specific for games), and <code>CrossBorder</code> (cross-MLC-border connection).

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of available acceleration regions
AccessRegionSet	Array of AccessRegionDetail	List of available acceleration region 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 available accelerator region based on the origin server region

Input Example

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

{
  "DestRegion": "SouthChina"
}
```

Output Example

```
{
  "Response": {
    "AccessRegionSet": [
      {
        "RegionId": "eu-moscow",
        "RegionName": "Russia",
        "ConcurrentList": [
          1,
          2,
          3,
          4,
          5,
          6,
          7
        ],
        "BandwidthList": [
```

```
1,  
2,  
3,  
4,  
5,  
6,  
7  
],  
"RegionArea": "NorthChina",  
"RegionAreaName": "Chinese mainland - North China",  
"IDCType": "dc",  
"FeatureBitmap": 3  
}  
],  
"RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd",  
"TotalCount": 1  
}  
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.UnknownDestRegion	The origin server region is not found or you have no access permission to it.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeAccessRegions

Last updated : 2023-07-13 15:25:40

1. API Description

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

This API (DescribeAccessRegions) is used to query acceleration region (client access 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: DescribeAccessRegions.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total quantity of acceleration regions
AccessRegionSet	Array of RegionDetail	Acceleration region details list

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

4. Example

Example1 Querying acceleration regions

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "AccessRegionSet": [
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      }
    ],
    "RequestId": "xx"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceUpgrading	The resource is being upgraded.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and

	email for details.
UnknownParameter	Unknown parameter.

DeleteSecurityRules

Last updated : 2023-07-13 15:25:40

1. API Description

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

This API is used to delete security policy rules.

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: DeleteSecurityRules.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
PolicyId	Yes	String	Security policy ID
RuleIdList.N	Yes	Array of String	List of access rule IDs

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 access rules

Input Example

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

{
  "RuleIdList": [
    "sr-xxx"
  ],
  "PolicyId": "sp-xxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1eea4c85-e088-4512-9c6c-480dff91677e"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

DeleteSecurityPolicy

Last updated : 2023-07-13 15:25:40

1. API Description

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

This API is used to delete a security policy.

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: DeleteSecurityPolicy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
PolicyId	Yes	String	Policy 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 security policy

Input Example

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

{
  "PolicyId": "sp-hw5czrxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "bdc19c0-74db-47b1-a07c-bbe6985ef44c"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

CreateSecurityRules

Last updated : 2023-07-13 15:25:41

1. API Description

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

This API is used to add security policy rules.

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: CreateSecurityRules.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
PolicyId	Yes	String	Security policy ID
RuleList.N	Yes	Array of SecurityPolicyRuleIn	List of access rules

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RuleIdList	Array of String	List of rule IDs
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Adding access rules

Input Example

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

```
{
  "PolicyId": "string",
  "RuleList": [
    {
      "Action": "string",
      "Protocol": "string",
      "DestPortRange": "string",
      "AliasName": "string",
      "SourceCidr": "string"
    }
  ]
}
```

Output Example

```
{
  "Response": {
    "RequestId": "1eea4c85-e088-4512-9c6c-480dff91677e",
    "RuleIdList": [
      "sr-ishgwan1",
      "sr-ishgwan2"
    ]
  }
}
```

```
}  
}
```

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](#)
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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxySecurityPolicyDefaultRule	Failed to add the rule: default connection access rules cannot be denied.

FailedOperation.ProxySecurityPolicyDuplicatedRule	Failed to add rules: repeated security protection access rules.
FailedOperation.ProxySecurityPolicyOperating	There are ongoing operations related to the connection security policy.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalServerError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

CreateSecurityPolicy

Last updated : 2023-07-13 15:25:41

1. API Description

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

This API is used to create security policies.

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: CreateSecurityPolicy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
DefaultAction	Yes	String	Default policy: ACCEPT or DROP
ProxyId	No	String	Acceleration connection ID
GroupId	No	String	Connection group ID

3. Output Parameters

--	--	--

Parameter Name	Type	Description
PolicyId	String	Security policy 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 security policy

Input Example

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

{
  "ProxyId": "link-1234",
  "DefaultAction": "Accept"
}
```

Output Example

```
{
  "Response": {
    "PolicyId": "pl-xxxx",
    "RequestId": "bdc19c0-74db-47b1-a07c-bbe6985ef44c"
  }
}
```

5. Developer Resources

SDK

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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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.ProxySecurityPolicyExisted	The security policy already exists. Do not create it again.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.

ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

CreateProxy

Last updated : 2023-07-13 15:25:41

1. API Description

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

This API is used to create/replicate an acceleration connection with the specified configuration. To replicate a connection, the basic configuration parameters need to be set for the new connection, and `ClonedProxyId` is needed to identify the replicated connection.

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: CreateProxy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	Project ID of connection.
ProxyName	Yes	String	Name of the connection
AccessRegion	Yes	String	Access region.
Bandwidth	Yes	Integer	Connection bandwidth cap. Unit: Mbps.
Concurrent	Yes	Integer	Connection concurrence cap, which indicates the maximum number of simultaneous online connections. Unit: 10,000 connections.

RealServerRegion	No	String	Origin server region. If GroupId exists, the origin server region is the one of connection group, and this field is not required. If GroupId does not exist, this field is required.
ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence .
GroupId	No	String	Connection group ID. This parameter is required when the connection is created in the connection group. Otherwise, this field is ignored.
TagSet.N	No	Array of TagPair	List of tags to be added for connection.
ClonedProxyId	No	String	ID of the replicated connection. Only a running connection can be replicated. The connection is to be replicated if this parameter is set.
BillingType	No	Integer	Billing mode (0: bill-by-bandwidth, 1: bill-by-traffic. Default value: bill-by-bandwidth)
IPAddressVersion	No	String	IP version. Valid values: <code>IPv4</code> (default), <code>IPv6</code> .
NetworkType	No	String	Network type. <code>normal</code> : general BGP; <code>cn2</code> : dedicated BGP; <code>triple</code> : Non-BGP (provided by the top 3 ISPs in the Chinese mainland).
PackageType	No	String	Package type of connection groups. Valid values: <code>Thunder</code> (general), <code>Accelerator</code> (specific for games), and <code>CrossBorder</code> (cross-MLC-border connection).
Http3Supported	No	Integer	(Disused) HTTP3.0 is supported by default when <code>IPAddressVersion</code> is <code>IPv4</code> .

3. Output Parameters

Parameter Name	Type	Description
InstanceId	String	Instance ID of connection.

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

4. Example

Example1 Creating a connection

Input Example

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

{
  "AccessRegion": "SouthChina",
  "ProjectId": "0",
  "Concurrent": "2",
  "Bandwidth": "10",
  "ProxyName": "test",
  "GroupId": "lg-xxxx"
}
```

Output Example

```
{
  "Response": {
    "InstanceId": "link-11112222",
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

Example2 Example 2: Creating a connection

Input Example

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

```
{
  "Http3Supported": "0",
  "BillingType": "0",
  "AccessRegion": "Shanghai",
  "Concurrent": "2",
  "ProjectId": "0",
  "RealServerRegion": "Guangzhou",
  "ProxyName": "test",
  "Bandwidth": "10",
  "PackageType": "Thunder",
  "NetworkType": "normal",
  "IPAddressVersion": "IPv4"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "db2dd9d4-ba60-48a2-a9ed-cd18c6e58dd0",
    "InstanceId": "link-aogd6x07"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.LimitNumofListener	Limit on the number of listeners exceeded.
FailedOperation.ProxySellOut	The line is sold out or the resource is insufficient. Please submit a ticket.
FailedOperation.TagResourcesFailed	Failed to add the tag to the resource.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotAuthenticated	The current account has not completed identity verification.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.FeatureConflict	The features to be enabled conflict with each other.
InvalidParameterValue.InvalidBandwidth	The bandwidth value is not in the range.
InvalidParameterValue.InvalidConcurrency	The number of concurrences is not in the range.
InvalidParameterValue.InvalidTags	The tag is not found or you have no access

	permission to it.
InvalidParameterValue.ProjectIdNotBelong	The project does not belong to this user.
InvalidParameterValue.ProxyAndGroupFeatureConflict	Cross-MLC-border connection is not supported in this connection group.
InvalidParameterValue.ProxyAndRegionFeatureConflict	The configuration of the cross-MLC-border connection is not supported in this region.
LimitExceeded.TagQuota	Insufficient tags
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

CloseSecurityPolicy

Last updated : 2023-07-13 15:25:41

1. API Description

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

This API is used to disable a security policy.

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: CloseSecurityPolicy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	No	String	Connection ID
PolicyId	No	String	Security group policy ID

3. Output Parameters

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

TaskId	String	Async Process ID. Using DescribeAsyncTaskStatus to query process and status.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling a security policy

Input Example

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

{
  "ProxyId": "link-xxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "bdc19c0-74db-47b1-a07c-bbe6985ef44c",
    "TaskId": "1234.2"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ActionIsDoing	The operation is being performed. Do not perform it again.
FailedOperation.ProxySecurityAlreadyClose	The security policy has been disabled. Do not repeat the operation.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

UnknownParameter

Unknown parameter.

CloseProxies

Last updated : 2023-07-13 15:25:41

1. API Description

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

This API (CloseProxies) is used to disable connections. If disabled, no traffic will be generated, but the basic configuration fee will still be incurred.

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: CloseProxies.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
InstanceIds.N	No	Array of String	Connection instance ID; It's an old parameter, please switch to ProxyIds.
ClientToken	No	String	A unique string supplied by the client to ensure that the request is idempotent. Its maximum length is 64 ASCII characters. If this parameter is not specified, the idem-potency of the request cannot be guaranteed. For more information, please see How to Ensure Idempotence .
ProxyIds.N	No	Array	Connection instance ID; It's a new parameter.

		of String	
--	--	--------------	--

3. Output Parameters

Parameter Name	Type	Description
InvalidStatusInstanceSet	Array of String	Only the running connection instance ID lists can be enabled.
OperationFailedInstanceSet	Array of String	ID list of connection instances failed to be enabled.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Disabling connection

Input Example

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

```
{
  "ProxyIds": [
    "link-11112222"
  ]
}
```

Output Example

```
{
  "Response": {
    "OperationFailedInstanceSet": [],
    "RequestId": "888fe1bb-be58-4a80-90b9-24a0398633c6",
    "InvalidStatusInstanceSet": []
  }
}
```



```
}  
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.

FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.

CheckProxyCreate

Last updated : 2023-07-13 15:25:42

1. API Description

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

This API (CheckProxyCreate) is used to query whether an acceleration connection with the specified configuration can be created.

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: CheckProxyCreate.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
AccessRegion	Yes	String	Access (acceleration) region of the connection. The value can be obtained via the DescribeAccessRegionsByDestRegion API.
RealServerRegion	Yes	String	Origin server region of the connection. The value can be obtained via the DescribeDestRegions API.
Bandwidth	Yes	Integer	Connection bandwidth cap. Unit: Mbps.
Concurrent	Yes	Integer	Connection concurrence cap, which indicates the maximum number of simultaneous online connections. Unit: 10,000 connections.

GroupId	No	String	Connection group ID that needs to be entered when a connection is created in a connection group
IPAddressVersion	No	String	IP version. Valid values: <code>IPv4</code> (default), <code>IPv6</code> .
NetworkType	No	String	Network type. Valid values: <code>normal</code> (default), <code>cn2</code>
PackageType	No	String	Package type of connection groups. Valid values: <code>Thunder</code> (general connection group), <code>Accelerator</code> (game accelerator connection group), and <code>CrossBorder</code> (cross-border connection group).
Http3Supported	No	Integer	(Disused) HTTP3.0 is supported by default when <code>IPAddressVersion</code> is <code>IPv4</code> .

3. Output Parameters

Parameter Name	Type	Description
CheckFlag	Integer	Queries whether a connection with the specified configuration can be created. 1: yes; 0: no.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying whether the connection can be created

Input Example

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

{
  "Concurrent": "2",
  "Bandwidth": "10",
  "RealServerRegion": "SouthChina",
```

```
"AccessRegion": "EastChina"  
}
```

Output Example

```
{  
  "Response": {  
    "CheckFlag": 1,  
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"  
  }  
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.

AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.InvalidBandwidth	The bandwidth value is not in the range.
InvalidParameterValue.InvalidConcurrency	The number of concurrences is not in the range.
InvalidParameterValue.UnknownAccessRegion	The acceleration region is not found or you have no access permission to it.
InvalidParameterValue.UnknownDestRegion	The origin server region is not found or you have no access permission to it.
MissingParameter	Missing parameter.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DescribeSecurityRules

Last updated : 2023-07-13 15:25:38

1. API Description

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

This API is used to query the list of security rules based on security rule ID. It supports querying 1 to 20 security rules at a time.

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: DescribeSecurityRules.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
SecurityRuleIds.N	Yes	Array of String	List of security rule IDs. Up to 20 security rules are supported.

3. Output Parameters

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

TotalCount	Integer	The number of returned security rules.
SecurityRuleSet	Array of SecurityPolicyRuleOut	List of returned security rules.
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 security rules based on security rule ID

Input Example

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

{
  "SecurityRuleIds": [
    "sr-xxxxxxx"
  ]
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "RequestId": "6dc6b074-9bcf-4120-9500-0583aebe375d",
    "SecurityRuleSet": [
      {
        "Protocol": "TCP",
        "SourceCidr": "1.1.1.101",
        "RuleId": "sr-0vr5571x",
        "DestPortRange": "6666,6667",
        "AliasName": "",
        "PolicyId": "sp-8k110pat",
        "Action": "ACCEPT"
      }
    ]
  }
}
```



```
}  
}
```

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](#)
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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.

InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

Certificate APIs

ModifyCertificateAttributes

Last updated : 2023-07-13 15:25:42

1. API Description

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

This API is used to modify certificate name and content.

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: ModifyCertificateAttributes.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
CertificateId	Yes	String	Certificate ID.
CertificateAlias	No	String	Certificate name. Up to 50 characters.

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 certificate attributes

Input Example

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

{
  "CertificateId": "xxx",
  "CertificateAlias": "xxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation.CertificateIsUsing	Unable to operate: the certificate is occupied.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

DescribeCertificates

Last updated : 2023-07-13 15:25:42

1. API Description

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

This API (DescribeCertificates) is used to query the list of available certificates.

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: DescribeCertificates.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
CertificateType	No	Integer	Certificate type. Where: 0: basic authentication configuration; 1: client CA certificate; 2: server SSL certificate; 3: origin server CA certificate; 4: connection SSL certificate. -1: all types. The default value is -1.
Offset	No	Integer	Offset. The default value is 0.

Limit	No	Integer	Quantity limit. The default value is 20.
-------	----	---------	--

3. Output Parameters

Parameter Name	Type	Description
CertificateSet	Array of Certificate	Server certificate list, which includes certificate ID and certificate name.
TotalCount	Integer	Total quantity of server certificates that match the query conditions.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying server certificate information

Input Example

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

{
  "CertificateType": "2",
  "Limit": "1",
  "Offset": "0"
}
```

Output Example

```
{
  "Response": {
    "TotalCount": 19,
    "RequestId": "35d85baa-eeb8-4eb5-96a9-b6d27f4ff92c",
    "CertificateSet": [
      {
```

```
"CertificateId": "cert-8k110pat",
"SubjectCN": "lagameft01.xyz",
"CertificateAlias": "test",
"CertificateName": "test",
"BeginTime": 1554134400,
"CertificateType": 2,
"EndTime": 1585713600,
"CreateTime": 1564557014,
"IssuerCN": "TrustAsia TLS RSA CA"
}
]
}
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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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
AuthFailure	CAM signature/authentication error.

AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

DescribeCertificateDetail

Last updated : 2023-07-13 15:25:42

1. API Description

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

This API (DescribeCertificateDetail) is used to query certificate details, including the certificate ID, name, type, content, key, and other 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: DescribeCertificateDetail.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
CertificateId	Yes	String	Certificate ID

3. Output Parameters

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

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

4. Example

Example1 Querying certificate details

Input Example

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

{
  "CertificateId": "cert-d5y6ei3b"
}
```

Output Example

```
{
  "Response": {
    "CertificateDetail": {
      "CertificateId": "cert-d5y6ei3b",
      "SubjectCN": "lagameft01.xyz",
      "CertificateAlias": "ca",
      "CertificateContent": "-----BEGIN CERTIFICATE-----\nMIIFmDCCBICgAwIBAgIQC6TGAPV+4MO7NIhlkkKFljANBgkqhkiG9w0BAQsFAADBy\nMQswCQYDVQQGEwJDTjEIMCMGA1UEChMcVHJ1c3RBc2lhIFRlY2hub2xvZ2l1cywg\nSW5jLjEdMBsGA1UECXMURG9tYWluIFZhbGlkYXRlZCBTU0wxHTAbBgNVBAMTFFRy\nndXN0QXNpYSBUTFMgU1NBIENBMB4XDTE5MDQwMjAwMDAwMFoXDTIwMDQwMTEyMDAw\nMDFUQwEaMBYwGfNlZnQwMS54eXowggEiMA0GCSqGSIb3DQEBAQUA\nA4IBDwAwggEKAoIBAQCuSgg1fAksbFSrvWp6cEFr8ulTWEND2KvXf6cCs3kBBCzE\nMLhCw4792LMFY0+FE7a0j7i5nJ9+QvhX7GRiu1P9flyge0eUCOBOAtVCn0dvhbLy\n7efWsmH3kp/owWXnZXeb/k5R1FvojCiV968MxMC+2Y7ejz5qMm5X1QPn3xQOEj2h\nQmHwQ9Xw08qRsIuCD1oNrsXsyXuEhA2zkeVevcgYYP35zPsXfjbBaBg7Iw3o0j3jXj\nngdhD2Q2OzH05Jdn3hDhSnej1jbWuGmDEOO+u6W/xqnCohBMjWLnW2aUddiBiqsH\n8BQK/Ge6HUp+mMdkdNAw5FN6ztIPzP6GFb00OLitAgMBAAGjggKBMIICfTAFBgNV\nNSMEGDAWgBR/05nzoEcOMQBWViKot8ye3coBijAdBgNVHQ4EFgQUqYL113uFqYHC\n2mJcZC26nLHtkjYwLQYDVR0RBCYwJIIObGFnyW11ZnQwMS54eXQcEnd3dy5sYwdh\nbWVmdDaxLnh5ejAOBgNVHQ8BAf8EBAMCBaAwHQYDVDR0lBBywFAYIKwYBBQUHAWEg\nnCCsGAQUFBwMCMEwGA1UdIARFMEMwNwYJYIZIAyB9BAECMCowKAYIKwYBBQUHAWEg\nnHGh0dHBzOi8vd3d3LmRzZ21jZXJ0LmNvbS9DUFMwCAYGZ4EMAQIBMH0GCCsGAQUF\nBwEBBHEwbzAhBggrBgEFBQcwAYYVaHR0cDovL29jc3AuZGNvY3NwLmNwLmUoGCCsG\nnAQUFBzACHj5odHRwOi8vY2FjZXJ0cy5kaWdpdGFsY
```

```

2VydHZhbG1kYXRpb24uY29t\nL1RydXN0QXNpYVRMU1JTQUNBLmNydDAJBgNVHRMEAjAAMIIBAwYKKwYB
BAHWeQIE\nAgSB9ASB8QDvAHUAu9nfvB+KcbWTlCOXqpJ7RzhXlQqrUugakJZkNo4e0YUAAAFp\n3cON9
gAABAMARjBEAiABFpvdLsJKm6zxh5wLS6uN5+TnX8bXD5bj7CPVC4Kg/wIg\nB+BzdsZL0UmuvbNAYkr8
W53bJKhEgoHJ0RdSyof5yZAAAdgCHdb/nWXz4jEOZX73z\nbv9WjUdWNv9KtWDBtOr/XqCDDwAAAWndw47
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+6P/xdrvjGt5Du\nokvgu70INuQwDQYJKoZIhvcNAQELBQADggEBAHxewHgySBS5Uo06l/IcU95baR/O
\nYGLcCpgEbWj4MigIZcrkHsD7RddRDoyM/3hxKyzs3Dkes4wHTQDWnyrNuXdn8aNV\nnJAhrh/0yzAe3/
UTJ/+SRoMg1K6rHWORMLa52d9u3Ei+1BF2qLi5L2tTmLrSQJXzB\nnNSIFd40x1mZLp9uqhcB9kcwwkHSF
UtLjFwUSN6Zjn9FStlq06ezjgnVv2tP9/HoP\nkWiRgRFDgqj8+ROJpQvfu02xdWoxYUmuMcx1o6IiSVn
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YAmfwbylVM0jhwyWl7uLjANBgkqhkiG9w0BAQoSFAcB\nMQswCQYDVQQGEwJVUzEVMBMGA1UEChMMRGlnc
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saWRhdGVkIFNTTDEdMBSGA1UEAxMUVHJ1c3Rlc2lhIFRlYXN0EgQ0EwggeiMA0GCSqGSIb3DQEBAQ
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33\nnldYvyJ3slFY2X2HKTYGte8nbK6i5/fsDImMYihAkp6VaNY/en8WZ5qcrQPVLuJrJ\nnDSXT04NnMeZ
OQDUoj/NHAmdfCBB/h1bZ5OGK6Sf1h5Yx/5wR4f3TUoPgGlnU7EuP\nnISLNdMRiDrXntcImDAiRvkh5GJ
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OAc06IfZOYt/TEwii1Ivi1C\nnqnuUlwpsF1LdQNIdfbW3TSe0BhQa7ifbVifvPWHY0u3rkg1ZeMo6XRU9
B4n5VyJY\nnRmE=\n-----END CERTIFICATE-----",
"CertificateKey": null,
"BeginTime": 1554134400,
"CertificateType": 3,
"EndTime": 1585713600,
"CreateTime": 1564560608,
"IssuerCN": "TrustAsia TLS RSA CA"
},
"RequestId": "7a4d63f8-a663-469c-be71-f1c00001c74b"
}
}

```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

DeleteCertificate

Last updated : 2023-07-13 15:25:42

1. API Description

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

This API is used to delete a certificate.

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: DeleteCertificate.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
CertificateId	Yes	String	ID of the certificate 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 a certificate

Input Example

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

{
  "CertificateId": "xxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation.CertificateIsUsing	Unable to operate: the certificate is occupied.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

CreateCertificate

Last updated : 2023-07-13 15:25:43

1. API Description

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

This API (CreateCertificate) is used to create the GAAP certificates and configuration files, including basic authentication configuration files, client CA certificates, server SSL certificates, GAAP SSL certificates, and origin server CA certificates.

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: CreateCertificate.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
CertificateType	Yes	Integer	Certificate type. Where: <ul style="list-style-type: none"> 0 : Basic authentication configuration; 1 : Client CA certificate; 2 : Server SSL certificate; 3 : Origin server CA certificate; 4 : Connection SSL certificate.
CertificateContent	Yes	String	Certificate content. URL encoding. Where: If the certificate type is basic authentication, enter username/password pair for this parameter. Format:

			<p>“username:password”, for example, root:FSGdT. The password is <code>htpasswd</code> or <code>openssl</code>, for example, <code>openssl passwd -crypt 123456</code>.</p> <p>When the certificate type is CA/SSL certificate, enter the certificate content for this parameter in the format of 'pem'.</p>
CertificateAlias	No	String	Certificate name
CertificateKey	No	String	URL-encoded key content. This parameter is required only when the certificate type is SSL certificate. Its format is <code>PEM</code> .

3. Output Parameters

Parameter Name	Type	Description
CertificateId	String	Certificate 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 certificate

Input Example

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

{
  "CertificateType": "2",
  "CertificateAlias": "xxx",
  "CertificateKey": "%0A-----BEGIN%20RSA%20PRIVATE%20KEY-----%0Axxxxxxxxxxxx%0A-----END%20RSA%20PRIVATE%20KEY-----%0A",
  "CertificateContent": "%0A-----BEGIN%20CERTIFICATE-----%0AMIIFmDCCBICgAwIBAgIQC6TGAPV%2B4MO7NIh1kkkFljANBgkqhkiG9w0BAQsFADBy%0AMQswCQYDVQQGEwJDTjElMCMGA1UEChMcVHJ1c3RBc2lhIFRlY2hub2xvZ2llcywg%0ASW5jLjEdMBsGA1UECxmURG9tYWluIFZhbG1kYXRlZCBTU0wxHTAbBgNVBAMTFFRy%0AdXN0QXNpYSBUTFMgUlNBIE5BMB4XDTE5MDQwMjAwMDAwMFoXDTEwMDQwMTEyMDA"
```

```

w%0AMFowGTEXMBUGA1UEAxMOBGFnyW11ZnQwMS54eXowggEiMA0GCSqGSIB3DQEBAQUAA%0AA4IBDwAwgg
EKAoIBAQCuSgglfAksbFSrvWp6cEfr8ulTWEND2KvXf6cCs3kBBCzE%0AMLhCw4792LMFY0%2BFE7a0j7
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8MxMC%2B2Y7ejz5qMm5X1QPn3xQOEj2h%0AQmHwQ9XwO8qRsIuCD1oNrsXsyXuEhA2zkEvcgtYP35zPsX
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NVHRMBAf8ECDAG%0AAQH/AgEAMDQGCCsGAQUFBwEBBCgwJjAkBggrBgEFBQcwAYYYaHR0cDovL29jc3Au
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J7i4153TikGgYCdwykBURD8gSve8OAc06IfZOyt/TEwii1Ivi1C%0AqnuU1WpsF1LdQNIdfbw3TSe0BhQ
a7ifbVIfvPWHY0u3rkg1ZeMo6XRu9B4n5VyJY%0ARmE%3D%0A-----END%20CERTIFICATE-----%0A"
}

```

Output Example

```
{
  "Response": {
    "RequestId": "c7bfcad5-3f20-472f-9afc-13a66faebad8",
    "CertificateId": "cert-xxx"
  }
}
```

Example2 Adding a server SSL certificate

Input Example

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

{
  "CertificateType": "2",
  "CertificateAlias": "123",
  "CertificateKey": "-----BEGIN RSA PRIVATE KEY-----\nMIIEowIBAAKCAQEA7CUY5bRNtt/YVT9BBDt fyqmF09KXzI+BCrIvrGDrjxRdIsT\nHs0xZL5EbZXt7uc5leXJ47RnVAQtNMCougeYtFWNMzGydvChMkImBHEsATE+ukqs\n7qUSmbg/Bj1OD4hmPNmNz6eljrWXXNxp0D0BdDMuy+JPLxDp/Hp/Sr3rngL6cbu\nAvfhnN/l+HvII79KC9D6w8uIyRoAqybaLrP9P+6yXaBFKzdc7o/LanHEAUaxY/Pb\nndP+3HFGNu5DiUHopFHZjl5Kr2GCWDL9N5VMI36H4UF40wvrjna1Bwc8em5zVzais\nLbj5pZMRTX2KpMfdDluit/hzPHs1Ex4h0HGUQwIDAQABAoIBAF7K3BsN8N1GiKPH\nZnYecky1jWhy2ewOj/+7QfTovQkVpyiuUchL99EcnNQMVvQk7+sKp8DaWyflXsxc\nnrZ0hVaVez3WfP5cmBH+oApdKctu2Vs0Q/Pygopz7YPYZ2DuiNUZTwjmNA9rpx9I8\nnYVIyBwjAXF2VRzr1apfsI4D0G5jFm/ugJqeflnJmyV/ZNix1uJvelN2LvxeH/PN5\nnk6IZ14IoKe7Pdw1Ujy306rWnej89ofbXmVvkzNB87C1Z0rHE4UWaOUu2q5B8Rn8j\nnh+2I8dXwQSPdbxv6RWFfdcyBci0Y9N7ucmS3zWI+ymQn0sR11Nhv0fOomymUO2+\nNa02DbkCgYEAzoPxzdaXgda1bMIQrg+M4hzrUeQiy9FA4hJyNqwZsi03YLA9fZrQ\nnw7ITNCc15vEEsADz3WqWtx2ZdsFQkvv3z4DNbfeLb6NHHNcnNi4WgdxA1MG8726T\nnTazZHSxY4czfLdzXU5/Y5AAfhCcBNpU/pGLYPpkhQOB2k3NH7C4jJX0CgYEAxfRC\nnYs1VSRq8j7auV0k3aCOSLaPv9gF+m8sg1zVdV1Emy36/WRetmuXSPonS0Nie7MB1\nnsRwmWgOQZgiTryNKQfnlhMlz2b/ZiaoU1pGVdcKN/aWKBma/KWf9mIx1WyGZdpaH\nns7zgEqSWjF0ZMB0UljW6m8NUtg h jfC109VcNzL8CgYBRq8CvBNS6Fm19a2opTCEN\nnMIyUwEI6lLCyN1VP5dPrrVBSPqCy0c0J95y8nVbR9DNEX7wRrpuYI26TlnQFDPy9\nn5VRYzvMn3Uy8TSJGvQdNqAtDmLLdhh9fkqHydz1Y/JibjKDjg23FDX9pRfum2HNo\nn0WZvqyOJgruiKI8jCkQACQKBgDGeHwG67Bst4f03240/aebte5d7Dwu/pieQy8OF\nnucbILYw2UeoX+EjqMD/CthfpJDS9qP+yyZ4ozIpevf3ZP6S36aLWB/bdkr5h5mU+\nncpOA16xrUOR33pSXX0ZcdpIIIvPjkuwnfJbPsHiwYT7hGybngsXGOTaDdcRKamMu\nnlePrAoGBAJVaQpEyDwgppuAcv9KTUt i IOLRke/pd0W020wTkZqMiIfiKjDpASq5c\nnrEzq0M6qYpnmj87wwFpZLLJvMUa9w5KjUpJ+hqBNYywe5/d61a aISfdtYfjoNuLw\nn4BZI/XcA3ZiqzPpQYWBODrEcnCRZKH4C71c7yyATwQL2iWRHoJkY\nn-----END RSA PRIVATE KEY-----",
  "CertificateContent": "-----BEGIN CERTIFICATE-----\nMIIDkTCCAnkCCQDOEdu7vXp33jANBgkqhkiG9w0BAQUFADCBhjELMAkGA1UEBhMC\nnQ04xEjAQBgNVBAgMCUd1YW5nRG9uZzELMAkGA1UEBwwC
```

```
U1oxEDAObgNVBAoMB3Rl\nbmNlbnQxDALBgnVBAsMBGNzaWcxFjAUBgNVBAMMDWNhLmNtMTAwMS5jb20
xHTAb\nBgkqhkiG9w0BCQEWdMhQHRlbnNlbnQuY29tMB4XDTE5MDcyOTEyMjI1MFoXDTI5\nMDcyNjEy
MjI1MFowGy0xCzAJBgNVBAYTAkNOMRIWEAYDVQQIDAlHdWFuZ0Rvbmcx\nCzAJBgNVBACMA1NaMRAdGy
DVQQKDAAdZW5jZW50MQ0wCwYDVQQLDARjc2lnMR0w\nGAYDVQQDBDF3d3cuY2hyaXN0ZXN0LmNvbTEgMB
4GCSqGSIB3DQEJARYRY2hyaXNA\ndGVuY2VudC5jb20wggeiMA0GCSqGSIB3DQEBAAQAA4IBDwAwggEKA
oIBAQCfsJRj\nltE2239hVP0EE01/KqYXT0pfMj4EKsi+sY0uPFF0ixMezTFkvkRtle3u5zmV5cnj\nntG
dUBC00wI66p5i0VY0zMBJ1VyEyQiYEcSwBMT66SqzupRKZuD8GOU4PiGY82Y3P\np6W0vAxfE3E/QPQF0
My7L4k8vEOn8en9KveueAvpxu4C9+Gc3+X4e8gJv0oL0PrD\nny4jJGgCrJtous/0/7rJdoEUrN1zuj8tq
ccQBRrFj89t0/7ccUY27kOJQeikUfOOX\nkqvYYJYmV03lUwjfofhQXjTC+uOdrUFZzx6bnNXNqKwtuPm
lkxFNfYqkx90OW6JP\n+HM8ezUTHiHQcZRDAgMBAAEwDQYJKoZIhvcNAQEFBQADggEBAGKJdazyji4aSA
Ak\ndcH9/he1RhfkdkBinNQspYWr17n3+YfX2aCBwkHDTnUUA+HIpUtaWekRqRGHXaKg\nmJjSKOHw715V
VR3CMekIRkhQkBMmicaC2YRTpJNOOkehAqeszYtDXoICgDc34zkmy\nVBPRYckYnXE8gwmew1Ogg8PxeC
2WgNAQtm/GXmdfe8Wtoy88Ugz8NSV//lIkQJkM\nzC7+GvWbIsfp7i7Cz8pIMNuJsfrVerbDpbpSSXr6l
vTfeCbh9Sq43jpJTbhg2BoU\nSpnKCvccuOEJnGowb9Wyz/vr02JG2RUdglpKh6l5c4+33yOgPqEcGnqM
qsDDjAct\nGjxzvQ4"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "bdef4308-69b2-4941-aeeb-9612f2c0cb2a",
    "CertificateId": "cert-li3tu2id"
  }
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
InvalidParameterValue.CertificateContentNotMatchKey	Mismatch between the certificate and the private key
InvalidParameterValue.InvalidCertificateContent	Failed to resolve. Please check the format of certificate content.
InvalidParameterValue.InvalidCertificateKey	Failed to resolve. Please check the format of certificate key.
MissingParameter	Missing parameter.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation

Other APIs

DescribeAuthSignature

Last updated : 2023-07-13 15:25:30

1. API Description

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

This API is used to get a request signature that can prevent parameter tampering in the process of triggering orders, getting quotes, or activating subscription services.

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: DescribeAuthSignature.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.

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 Querying a request signature

Input Example

```
POST / HTTP/1.1
Host: gaap.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeAuthSignature
<common request parameters>

{}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeResourcesByTag

Last updated : 2023-07-13 15:25:29

1. API Description

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

This API (DescribeResourcesByTag) is used to query corresponding resource information by tags, including connection, connection group, and origin server.

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: DescribeResourcesByTag.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
TagKey	Yes	String	Tag key.
TagValue	Yes	String	Tag value.
ResourceType	No	String	Resource types: Proxy (connection); ProxyGroup (connection group); RealServer (origin server). If this field is not specified, all resources with the tag will be queried.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Total resources
ResourceSet	Array of TagResourceInfo	Resource list corresponding to the tag
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Pulling resource list based on tags

Input Example

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

{
  "ResourceType": "Proxy",
  "TagKey": "testkey",
  "TagValue": "test"
}
```

Output Example

```
{
  "Response": {
    "ResourceSet": [
      {
        "ResourceType": "Proxy",
        "ResourceId": "link-12345678"
      }
    ],
    "TotalCount": 1,
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

```
}  
}
```

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 NodeJS](#)
- [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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.

InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnknownParameter	Unknown parameter.

DescribeRegionAndPrice

Last updated : 2023-07-13 15:25:29

1. API Description

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

This API (DescribeRegionAndPrice) is used to obtain the origin server regions and the bandwidth price gradient.

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: DescribeRegionAndPrice.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
IPAddressVersion	No	String	IP version. Valid values: <code>IPv4</code> (default), <code>IPv6</code> .
PackageType	No	String	Package type of connection groups. Valid values: <code>Thunder</code> (general), <code>Accelerator</code> (specific for games), and <code>CrossBorder</code> (cross-MLC-border connection).

3. Output Parameters

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

TotalCount	Integer	Total number of origin server regions
DestRegionSet	Array of RegionDetail	List of origin server region details
BandwidthUnitPrice	Array of BandwidthPriceGradient	Connection bandwidth price gradient
Currency	String	Currency type of bandwidth price: CNY (Chinese Yuan) USD (United States Dollar)
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 This example shows you how to obtain the origin server region and the bandwidth tiered pricing.

This example shows you how to obtain the origin server region and the bandwidth tiered pricing.

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "TotalCount": 1,
    "DestRegionSet": [
      {
        "RegionId": "xx",
        "RegionAreaName": "xx",
        "IDCType": "xx",
        "FeatureBitmap": 1,
        "RegionArea": "xx",
        "RegionName": "xx"
      }
    ]
  }
}
```



```
}
],
"RequestId": "xx",
"BandwidthUnitPrice": [
{
"BandwidthRange": [
0,
20
],
"BandwidthUnitPrice": 0.0,
"DiscountBandwidthUnitPrice": 0.0
},
{
"BandwidthRange": [
20,
100
],
"BandwidthUnitPrice": 0.0,
"DiscountBandwidthUnitPrice": 0.0
},
{
"BandwidthRange": [
100,
500
],
"BandwidthUnitPrice": 0.0,
"DiscountBandwidthUnitPrice": 0.0
},
{
"BandwidthRange": [
500,
2000
],
"BandwidthUnitPrice": 0.0,
"DiscountBandwidthUnitPrice": 0.0
},
{
"BandwidthRange": [
2000,
0
],
"BandwidthUnitPrice": 0.0,
"DiscountBandwidthUnitPrice": 0.0
}
],
"Currency": "xx"
```

```
}  
}
```

Example2 This example shows you how to obtain the origin server region and the bandwidth tiered pricing.

Input Example

```
POST / HTTP/1.1  
Host: gaap.tencentcloudapi.com  
Content-Type: application/json  
X-TC-Action: DescribeRegionAndPrice  
<Common request parameters>  
  
{}
```

Output Example

```
{  
  "Response": {  
    "TotalCount": 1,  
    "DestRegionSet": [  
      {  
        "RegionId": "xx",  
        "RegionAreaName": "xx",  
        "IDCType": "xx",  
        "FeatureBitmap": 1,  
        "RegionArea": "xx",  
        "RegionName": "xx"  
      },  
      {  
        "RegionId": "xx",  
        "RegionAreaName": "xx",  
        "IDCType": "xx",  
        "FeatureBitmap": 1,  
        "RegionArea": "xx",  
        "RegionName": "xx"  
      },  
      {  
        "RegionId": "xx",  
        "RegionAreaName": "xx",  
        "IDCType": "xx",  
        "FeatureBitmap": 1,  
        "RegionArea": "xx",  
        "RegionName": "xx"  
      }  
    ]  
  }  
}
```

```

},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
}

```

```
"RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
},
{
  "RegionId": "xx",
  "RegionAreaName": "xx",
  "IDCType": "xx",
  "FeatureBitmap": 1,
  "RegionArea": "xx",
  "RegionName": "xx"
}
],
"RequestId": "xx",
"BandwidthUnitPrice": [
  {
    "BandwidthRange": [
      0,
      20
    ],
    "BandwidthUnitPrice": 0.0,
    "DiscountBandwidthUnitPrice": 0.0
  },
  {
    "BandwidthRange": [
      20,
      100
    ],
    "BandwidthUnitPrice": 0.0,
    "DiscountBandwidthUnitPrice": 0.0
  },
  {
    "BandwidthRange": [
```

```
100,  
500  
],  
"BandwidthUnitPrice": 0.0,  
"DiscountBandwidthUnitPrice": 0.0  
},  
{  
"BandwidthRange": [  
500,  
2000  
],  
"BandwidthUnitPrice": 0.0,  
"DiscountBandwidthUnitPrice": 0.0  
},  
{  
"BandwidthRange": [  
2000,  
0  
],  
"BandwidthUnitPrice": 0.0,  
"DiscountBandwidthUnitPrice": 0.0  
}  
],  
"Currency": "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 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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeRealServerStatistics

Last updated : 2023-05-04 10:13:18

1. API Description

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

This API is used to query the statistics of an origin server's health check results. Origin server status is displayed as 1 (normal) or 0 (exceptional). The queried origin server must be bound to a listener or rule, and the ID of the bound listener or rule must be specified for the query. This API supports displaying origin server status statistics at a 1-minute granularity.

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: DescribeRealServerStatistics.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required for this API.
RealServerId	Yes	String	Origin server ID
ListenerId	No	String	Listener ID
RuleId	No	String	Layer-7 rule ID
WithinTime	No	Integer	Statistics duration. Unit: hours. It only supports querying statistics for

			the past 1, 3, 6, 12, and 24 hours.
StartTime	No	String	Statistics start time, such as <code>2020-08-19 00:00:00</code>
EndTime	No	String	Statistics end time, such as <code>2020-08-19 23:59:59</code>
Granularity	No	Integer	Statistics granularity in seconds. Only 1-minute (60-second) and 5-minute (300-second) granularities are supported.

3. Output Parameters

Parameter Name	Type	Description
StatisticsData	Array of StatisticsDataInfo	Origin server status statistics of specified listener
RsStatisticsData	Array of MetricStatisticsInfo	Status statistics of multiple origin servers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the health check result of the bound origin server

This example shows you how to query the health check results of the bound origin server.

Input Example

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

{
  "WithinTime": "3",
  "RealServerId": "rs-rfgt56hy",
  "ListenerId": "listener-gucvb6d"
}
```


Output Example

```
{
  "Response": {
    "RsStatisticsData": [
      {
        "MetricData": [
          {
            "Data": 0.0,
            "Time": 1
          },
          {
            "Data": 0.0,
            "Time": 1
          }
        ],
        "MetricName": "xx"
      },
      {
        "MetricData": [
          {
            "Data": 0.0,
            "Time": 1
          },
          {
            "Data": 0.0,
            "Time": 1
          }
        ],
        "MetricName": "xx"
      }
    ],
    "RequestId": "xx",
    "StatisticsData": [
      {
        "Data": 0.0,
        "Time": 1
      }
    ]
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and

email for details.

DescribeProxyStatistics

Last updated : 2023-07-13 15:25:29

1. API Description

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

This API is used to query listener statistics, including inbound/outbound bandwidth, inbound/outbound packets, concurrence, packet loss, and latency data. It supports granularities of 300, 3,600, and 86,400. Default value is the highest within the granularity range.

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: DescribeProxyStatistics.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProxyId	Yes	String	Connection ID
StartTime	Yes	Timestamp	Start time (2019-03-25 12:00:00)
EndTime	Yes	Timestamp	End time (2019-03-25 12:00:00)
MetricNames.N	Yes	Array of String	Statistical metric name list. Valid values: <code>InBandwidth</code> (inbound bandwidth); <code>OutBandwidth</code> (outbound

			bandwidth); Concurrent (concurrency); <code>InPackets</code> (inbound packets); <code>OutPackets</code> (outbound packets); <code>PacketLoss</code> (packet loss rate); <code>Latency</code> (latency); <code>HttpQPS</code> (the number of HTTP requests); <code>HttpsQPS</code> (the number of HTTPS requests).
Granularity	Yes	Integer	Monitoring granularity. It currently supports: 60, 300, 3,600, and 86,400. Unit: seconds. Time range: ≤ 3 day. Supported minimum granularity: 60 seconds; Time range: ≤ 7 day. Supported minimum granularity: 300 seconds; Time range: ≤ 30 days. Supported minimum granularity: 36,000 seconds;
Isp	No	String	Specifies the ISP. Valid values: <code>CMCC</code> , <code>CUCC</code> , and <code>CTCC</code> . If it is not specified, all ISP data will be returned. Note that this field is valid only when a non-BGP connection is used.

3. Output Parameters

Parameter Name	Type	Description
StatisticsData	Array of MetricStatisticsInfo	Connection statistics
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying connection statistics

This example shows you how to query the connection statistics.

Input Example

```
POST / HTTP/1.1
Host: gaap.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeProxyStatistics
```

```
<Common request parameters>

{
  "ProxyId": "link-rfgt56hy",
  "EndTime": "2019-03-26 12:00:00",
  "Granularity": "300",
  "StartTime": "2019-03-25 12:00:00",
  "MetricNames": [
    "Concurrent"
  ]
}
```

Output Example

```
{
  "Response": {
    "StatisticsData": [
      {
        "MetricName": "Concurrent",
        "MetricData": [
          {
            "Time": 1564734780,
            "Data": 2000
          },
          {
            "Time": 1564734720,
            "Data": 2001
          }
        ]
      }
    ],
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeProxyGroupStatistics

Last updated : 2023-07-13 15:25:29

1. API Description

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

This API is used to query listener statistics, including inbound/outbound bandwidth, inbound/outbound packets, and concurrence data. It supports granularities of 300, 3,600, and 86,400. Default value is the highest within the granularity range.

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: DescribeProxyGroupStatistics.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
GroupId	Yes	String	Connection group ID
StartTime	Yes	Timestamp	Start time
EndTime	Yes	Timestamp	End time
MetricNames.N	Yes	Array of String	Statistical metric name list. Values: InBandwidth (inbound bandwidth); OutBandwidth (outbound bandwidth); Concurrent

			(concurrency); InPackets (inbound packets); OutPackets (outbound packets).
Granularity	Yes	Integer	Monitoring granularity (in seconds). Valid values: 60s, 300s, 3,600s, 86,400s. Time range: ≤ 1 day. Supported minimum granularity: 60 seconds; Time range: ≤ 7 days. Supported minimum granularity: 3,600 seconds; Time range: ≤ 30 days. Supported minimum granularity: 86,400 seconds;

3. Output Parameters

Parameter Name	Type	Description
StatisticsData	Array of MetricStatisticsInfo	Connection group statistics
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying connection group statistics

This example shows you how to query the connection group statistics.

Input Example

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

{
  "EndTime": "2019-03-26 12:00:00",
  "Granularity": "300",
  "GroupId": "lg-rfgt56hy",
  "StartTime": "2019-03-25 12:00:00",
```

```
"MetricNames": [  
  "InputBandwidth"  
]  
}
```

Output Example

```
{  
  "Response": {  
    "StatisticsData": [  
      {  
        "MetricName": "InputBandwidth",  
        "MetricData": [  
          {  
            "Time": 1564734780,  
            "Data": 2000  
          },  
          {  
            "Time": 1564734720,  
            "Data": 2001  
          }  
        ]  
      }  
    ],  
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"  
  }  
}
```

5. Developer Resources

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

DescribeListenerStatistics

Last updated : 2023-07-13 15:25:29

1. API Description

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

This API is used to query listener statistics, including inbound/outbound bandwidth, inbound/outbound packets, and concurrence data. It supports granularities of 300, 3,600, and 86,400. Default value is the highest within the granularity range.

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

We recommend you to use API Explorer

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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: DescribeListenerStatistics.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ListenerId	Yes	String	Listener ID
StartTime	Yes	Timestamp	Start time
EndTime	Yes	Timestamp	End time
MetricNames.N	Yes	Array of String	Statistical metric name list. It supports:["InBandwidth", "OutBandwidth", "Concurrent", "InPackets", "OutPackets"]

Granularity	Yes	Integer	Monitoring granularity. It currently supports: 300, 3,600, and 86,400. Unit: seconds. Time range: <= 1 day, supported minimum granularity: 300 seconds; Time range: <= 7 days, supported minimum granularity:3,600 seconds; Time range: > 7 days, supported minimum granularity:86,400 seconds;
-------------	-----	---------	--

3. Output Parameters

Parameter Name	Type	Description
StatisticsData	Array of MetricStatisticsInfo	Connection group statistics
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying listener statistics

This example shows you how to query the listener statistics.

Input Example

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

{
  "EndTime": "2019-03-26 12:00:00",
  "Granularity": "300",
  "ListenerId": "listener-rfgt56hy",
  "StartTime": "2019-03-25 12:00:00",
  "MetricNames": [
    "OutputBandwidth",
    "InputBandwidth"
  ]
}
```

```
]
}
```

Output Example

```
{
  "Response": {
    "StatisticsData": [
      {
        "MetricName": "InputBandwidth",
        "MetricData": [
          {
            "Time": 1564736040,
            "Data": 2000
          },
          {
            "Time": 1564735980,
            "Data": 2001
          }
        ]
      }
    ],
    "RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd"
  }
}
```

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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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.

DescribeGroupAndStatisticsProxy

Last updated : 2023-07-13 15:25:30

1. API Description

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

This is an internal API. It is used to query the information of connections and connection groups from which the statistics can be derived.

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: DescribeGroupAndStatisticsProxy.
Version	Yes	String	Common Params . The value used for this API: 2018-05-29.
Region	No	String	Common Params . This parameter is not required.
ProjectId	Yes	Integer	Project ID

3. Output Parameters

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

GroupSet	Array of GroupStatisticsInfo	Information of connection groups that the statistics can be derived from
TotalCount	Integer	Connection group quantity
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 connections and connection groups from which the statistics can be derived

This example shows you how to query the information of connections and connection groups from which the statistics can be derived.

Input Example

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

{
  "ProjectId": "0"
}
```

Output Example

```
{
  "Response": {
    "GroupSet": [
      {
        "GroupId": "lg-r737geg",
        "GroupName": "lg-test",
        "ProxySet": [
          {
            "ProxyId": "link-mmu241ob",
            "ProxyName": "link-test",
            "ListenerList": [
              {
                "ListenerId": "listener-lmifrrmh",
                "ListenerName": "linstener-test",
```

```
"Port": 80,
"Protocol": "HTTP"
}
]
}
]
}
],
"RequestId": "5c680029-66b2-4be8-9630-7bd316ce70dd",
"TotalCount": 1
}
}
```

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
AuthFailure	CAM signature/authentication error.

AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
AuthFailure.UnauthorizedOperation	The sub-account is not authorized for this operation.
FailedOperation	Operation failed.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InternalError	Internal error.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Incorrect parameter value.
MissingParameter	Missing parameter.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation	Unauthorized operation.

Data Types

Last updated : 2023-07-13 15:25:43

AccessConfiguration

List of acceleration regions in a connection group, including acceleration regions and their bandwidth and concurrence configuration.

Used by actions: CreateProxyGroup.

Name	Type	Required	Description
AccessRegion	String	Yes	Acceleration region.
Bandwidth	Integer	Yes	Connection bandwidth cap. Unit: Mbps.
Concurrent	Integer	Yes	Connection concurrence cap, which indicates the maximum number of simultaneous online connections. Unit: 10,000 connections.
NetworkType	String	No	Network type. Valid values: <code>normal</code> (default), <code>cn2</code>

AccessRegionDetail

Query the available acceleration region information, the corresponding bandwidth options, and the concurrence based on origin servers.

Used by actions: DescribeAccessRegionsByDestRegion.

Name	Type	Description
RegionId	String	Region ID
RegionName	String	Region name in Chinese or English
ConcurrentList	Array of Integer	Value array of the available concurrence
BandwidthList	Array of Integer	Value array of the available bandwidth
RegionArea	String	Region where the data center locates

RegionAreaName	String	Name of the region where the data center locates
IDCType	String	Data center type. <code>dc</code> : data center; <code>ec</code> : edge server.
FeatureBitmap	Integer	<p>Feature bitmap. Valid values:</p> <ul style="list-style-type: none"> <code>0</code> : disable the feature; <code>1</code> : enable the feature. <p>Each bit in the bitmap represents a feature:</p> <ul style="list-style-type: none"> 1st bit: layer-4 acceleration; 2nd bit: layer-7 acceleration; 3rd bit: HTTP3 access; 4th bit: IPv6; 5th bit: dedicated BGP access; 6th bit: non-BGP access; 7th bit: QoS acceleration. <p>Note: this field may return <code>null</code> , indicating that no valid values can be obtained.</p>

AccessRegionDomainConf

Domain name nearest access configuration

Used by actions: ModifyGroupDomainConfig.

Name	Type	Required	Description
RegionId	String	Yes	Region ID.
NationCountryInnerList	Array of String	No	Region/country code for the nearest access, which can be obtained via the DescribeCountryAreaMapping API.

BandwidthPriceGradient

Bandwidth price gradient

Used by actions: DescribeRegionAndPrice, InquiryPriceCreateProxy.

Name	Type	Description
BandwidthRange	Array of Integer	Bandwidth range.

BandwidthUnitPrice	Float	Bandwidth unit price within the bandwidth range. Unit: CNY/Mbps/day.
DiscountBandwidthUnitPrice	Float	Discounted bandwidth price in CNY/Mbps/day.

BindRealServer

Bound origin server information

Used by actions: DescribeListenerRealServers, DescribeRuleRealServers, DescribeRules, DescribeRulesByRuleIds, DescribeTCPListeners, DescribeUDPListeners.

Name	Type	Description
RealServerId	String	Origin server ID
RealServerIP	String	Origin server IP or domain name
RealServerWeight	Integer	Origin server weight
RealServerStatus	Integer	Origin server health check status. Valid values: 0: normal; 1: exceptional. If health check is not enabled, this status will always be normal. Note: this field may return null, indicating that no valid values can be obtained.
RealServerPort	Integer	Origin server port number Note: This field may return null, indicating that no valid values can be obtained.
DownIPList	Array of String	If the origin server is a domain name, the domain name will be resolved to one or multiple IPs. This field indicates the exceptional IP list.
RealServerFailoverRole	String	Role of the origin server. Values: <code>master</code> (primary origin server); <code>slave</code> (secondary origin server). This parameter only takes effect when origin failover is enabled for the listener.

BindRealServerInfo

The returned value of the added origin server information

Used by actions: DescribeRealServers.

Name	Type	Description
RealServerIP	String	Origin server IP or domain name
RealServerId	String	Origin server ID
RealServerName	String	Origin server name
ProjectId	Integer	Project ID
TagSet	Array of TagPair	Tag list. Note: This field may return null, indicating that no valid values can be obtained.

Certificate

Server Certificate

Used by actions: DescribeCertificates.

Name	Type	Description
CertificateId	String	Certificate ID
CertificateName	String	Certificate name; It's an old parameter, please switch to CertificateAlias.
CertificateType	Integer	Certificate type.
CertificateAlias	String	Certificate name. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	Certificate creation time in the format of UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (midnight in UTC/GMT).
BeginTime	Integer	Certificate effective time in the format of UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (midnight in UTC/GMT). Note: This field may return null, indicating that no valid values can be obtained.
EndTime	Integer	Certificate expiration time in the format of UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (midnight in UTC/GMT). Note: This field may return null, indicating that no valid values can be obtained.
IssuerCN	String	Common name of the certificate issuer.

		Note: This field may return null, indicating that no valid values can be obtained.
SubjectCN	String	Common name of the certificate subject. Note: This field may return null, indicating that no valid values can be obtained.

CertificateAliasInfo

Certificate alias information.

Used by actions: DescribeHTTPSListeners, DescribeRules.

Name	Type	Description
CertificateId	String	Certificate ID.
CertificateAlias	String	Certificate alias.

CertificateDetail

Certificate details, including the certificate ID, name, type, content, and key content.

Used by actions: DescribeCertificateDetail.

Name	Type	Description
CertificateId	String	Certificate ID
CertificateType	Integer	Certificate type.
CertificateAlias	String	Certificate name. Note: This field may return null, indicating that no valid values can be obtained.
CertificateContent	String	Certificate content.
CertificateKey	String	Key content. This field will be returned if the certificate type is the SSL certificate. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	Creation time in the format of UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (midnight in UTC/GMT). Note: This field may return null, indicating that no valid values can be obtained.
BeginTime	Integer	Time that the certificate takes effect. Using the UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (Midnight in

		UTC/GMT). Note: This field may return null, indicating that no valid values can be obtained.
EndTime	Integer	Certificate expiration time. Using the UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (Midnight in UTC/GMT). Note: This field may return null, indicating that no valid values can be obtained.
IssuerCN	String	Common name of the certificate's issuer. Note: This field may return null, indicating that no valid values can be obtained.
SubjectCN	String	Common name of the certificate subject. Note: This field may return null, indicating that no valid values can be obtained.

CountryAreaMap

Country/region code mapping (name and code)

Used by actions: DescribeCountryAreaMapping.

Name	Type	Description
NationCountryName	String	Country name.
NationCountryInnerCode	String	Country code.
GeographicalZoneName	String	Region name.
GeographicalZoneInnerCode	String	Region code.
ContinentName	String	Continent name.
ContinentInnerCode	String	Continent code.
Remark	String	Remark information Note: This field may return null, indicating that no valid values can be obtained.

DomainAccessRegionDict

Nearest access configuration details of domain name resolution

Used by actions: DescribeGroupDomainConfig.

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

NationCountryInnerList	Array of NationCountryInnerInfo	Nearest access region
ProxyList	Array of ProxyIdDict	Acceleration region connection list
RegionId	String	Acceleration region ID
GeographicalZoneInnerCode	String	Acceleration region internal code
ContinentInnerCode	String	Internal code of the continent to which the acceleration region belongs
RegionName	String	Acceleration region alias

DomainErrorPageInfo

Custom error response configuration of a domain name

Used by actions: DescribeDomainErrorPageInfo, DescribeDomainErrorPageInfoByIds.

Name	Type	Description
ErrorPageId	String	Configuration ID of a custom error response
ListenerId	String	Listener ID
Domain	String	Domain name
ErrorNos	Array of Integer	Original error code
NewErrorNo	Integer	New error code Note: This field may return null, indicating that no valid values can be obtained.
ClearHeaders	Array of String	Response header to be cleared Note: This field may return null, indicating that no valid values can be obtained.
SetHeaders	Array of HttpHeaderParam	Response header to be set Note: This field may return null, indicating that no valid values can be obtained.
Body	String	Configured response body (excluding HTTP header) Note: This field may return null, indicating that no valid values can be obtained.

Status	Integer	Rule status. 0: success Note: this field may return null, indicating that no valid value is obtained.
--------	---------	--

DomainRuleSet

Forwarding rule information of Layer-7 listeners classified by domain name

Used by actions: DescribeRules.

Name	Type	Description
Domain	String	Forwarding rule domain name.
RuleSet	Array of RuleInfo	Forwarding rule list of the domain name.
CertificateId	String	Server certificate ID of the domain. When it is <code>default</code> , it indicates that the default certificate will be used (i.e., the certificate configured for the listener). Note: This field may return null, indicating that no valid values can be obtained.
CertificateAlias	String	Server certificate name of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
ClientCertificateId	String	Client certificate ID of the domain. When it is <code>default</code> , it indicates that the default certificate will be used (i.e., the certificate configured for the listener). Note: This field may return null, indicating that no valid values can be obtained.
ClientCertificateAlias	String	Client certificate name of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
BasicAuthConfId	String	Basic authentication configuration ID of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
BasicAuth	Integer	Basic authentication status: 0: disabled;

		1: enabled. Note: This field may return null, indicating that no valid values can be obtained.
BasicAuthConfAlias	String	Basic authentication configuration name of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
RealServerCertificateId	String	Origin server authentication certificate ID of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
RealServerAuth	Integer	Origin server authentication status: 0: disabled; 1: enabled. Note: This field may return null, indicating that no valid values can be obtained.
RealServerCertificateAlias	String	Origin server authentication certificate name of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
GaapCertificateId	String	Connection authentication certificate ID of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
GaapAuth	Integer	Connection authentication status: 0: disabled; 1: enabled. Note: This field may return null, indicating that no valid values can be obtained.
GaapCertificateAlias	String	Connection authentication certificate name of the domain name. Note: This field may return null, indicating that no valid values can be obtained.
RealServerCertificateDomain	String	Origin server authentication domain name. Note: This field may return null, indicating that no valid values can be obtained.
PolyClientCertificateAliasInfo	Array of CertificateAliasInfo	Returns IDs and aliases of multiple certificates when there are multiple client certificates.

		Note: This field may return null, indicating that no valid values can be obtained.
PolyRealServerCertificateAliasInfo	Array of CertificateAliasInfo	Returns IDs and aliases of multiple certificates when there are multiple origin certificates. Note: This field may return null, indicating that no valid values can be obtained.
DomainStatus	Integer	Domain name status. 0: running; 1: changing; 2: deleting. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
BanStatus	String	Blocking-related status of the domain name. <code>BANNED</code> : the domain name is blocked; <code>RECOVER</code> : the domain name is unblocked or normal; <code>BANNING</code> : the domain name is being blocked; <code>RECOVERING</code> : the domain name is being unblocked; <code>BAN_FAILED</code> : the blocking fails; <code>RECOVER_FAILED</code> : the unblocking fails. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
Http3Supported	Integer	Specifies whether to enable HTTP3. Valid values: <code>0</code> : disable HTTP3; <code>1</code> : enable HTTP3. Note: This field may return <code>null</code> , indicating that no valid values can be obtained.

Filter

Filter conditions

Used by actions: DescribeProxies, DescribeProxyGroupList, DescribeRealServers.

Name	Type	Required	Description
Name	String	Yes	Filter conditions
Values	Array of String	Yes	Filter values

GroupStatisticsInfo

The connection groups from which the statistics can be derived, and the connection information.

Used by actions: DescribeGroupAndStatisticsProxy.

Name	Type	Description
GroupId	String	Connection group ID
GroupName	String	Connection group name
ProxySet	Array of ProxySimpleInfo	List of connections of a connection group

HTTPListener

HTTP listener information

Used by actions: DescribeHTTPListeners.

Name	Type	Description
ListenerId	String	Listener ID
ListenerName	String	Listener name
Port	Integer	Listener port
CreateTime	Integer	Listener creation time; using UNIX timestamp.
Protocol	String	Listener protocol. Valid values: HTTP, HTTPS. The value <code>HTTP</code> is used for this structure
ListenerStatus	Integer	Listener status: 0: running; 1: creating; 2: terminating; 3: adjusting origin server; 4: modifying configuration.
ProxyId	String	Connection ID of the listener. A null value is returned if the listener is associated with the connection group. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
GroupId	String	Connection group ID of the listener. A null value is returned if the listener is

associated with a specific connection.

Note: This field may return `null`, indicating that no valid value can be obtained.

HTTPSListener

HTTPS listener information

Used by actions: DescribeHTTPSListeners.

Name	Type	Description
ListenerId	String	Listener ID
ListenerName	String	Listener name
Port	Integer	Listener port
Protocol	String	Listener protocol. Valid values: HTTP, HTTPS. The value <code>HTTPS</code> is used for this structure
ListenerStatus	Integer	Listener status: 0: running; 1: creating; 2: terminating; 3: adjusting origin server; 4: modifying configuration.
CertificateId	String	Server SSL certificate ID of the listener
ForwardProtocol	String	Protocol used in the forwarding from connections to origin servers
CreateTime	Integer	Listener creation time; using UNIX timestamp.
CertificateAlias	String	Server SSL certificate alias Note: This field may return null, indicating that no valid values can be obtained.
ClientCertificateId	String	Client CA certificate ID of the listener Note: This field may return null, indicating that no valid values can be obtained.
AuthType	Integer	Listener authentication mode. Valid values: 0: one-way authentication; 1: mutual authentication.

		Note: this field may return null, indicating that no valid values can be obtained.
ClientCertificateAlias	String	Client CA certificate alias Note: This field may return null, indicating that no valid values can be obtained.
PolyClientCertificateAliasInfo	Array of CertificateAliasInfo	Alias information of multiple client CA certificates. Note: This field may return null, indicating that no valid values can be obtained.
Http3Supported	Integer	Whether to support HTTP3. Values: 0 : Do not support HTTP3 access; 1 : Support HTTP3 access. If HTTP3 is supported for a connection, the listener will use the port that is originally accessed to UDP, and a UDP listener with the same port cannot be created. Note: This field may return null, indicating that no valid values can be obtained.
ProxyId	String	Connection ID of the listener. A null value is returned if the listener is associated with the connection group. Note: This field may return null, indicating that no valid values can be obtained.
GroupId	String	Connection group ID of the listener. A null value is returned if the listener is associated with a specific connection. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.

HTTPHeaderParam

Parameter describing an HTTP packet header

Used by actions: CreateCustomHeader, CreateDomainErrorPageInfo, DescribeCustomHeader, DescribeDomainErrorPageInfo, DescribeDomainErrorPageInfoByIds.

Name	Type	Required	Description
HeaderName	String	Yes	HTTP header name
HeaderValue	String	Yes	HTTP header value

IPDetail

IP details

Used by actions: DescribeProxies, DescribeProxyDetail.

Name	Type	Required	Description
IP	String	Yes	IP string
Provider	String	Yes	Network provider. <code>BGP</code> : Tencent Cloud BGP (default); <code>CMCC</code> : China Mobile; <code>CUCC</code> : China Unicom; <code>CTCC</code> : China Telecom.
Bandwidth	Integer	Yes	Max bandwidth

ListenerInfo

Used by internal APIs. It returns the information of listeners whose statistics can be queried.

Used by actions: DescribeProxyAndStatisticsListeners.

Name	Type	Description
ListenerId	String	Listener ID
ListenerName	String	Listener name
Port	Integer	Listening port
Protocol	String	Listener protocol type

MetricStatisticsInfo

One-metric statistics

Used by actions: DescribeListenerStatistics, DescribeProxyGroupStatistics, DescribeProxyStatistics, DescribeRealServerStatistics.

Name	Type	Description
MetricName	String	Metric name
MetricData	Array of StatisticsDataInfo	Metric statistics

NationCountryInnerInfo

Nearest access country/region details

Used by actions: DescribeGroupDomainConfig.

Name	Type	Description
NationCountryName	String	Country name
NationCountryInnerCode	String	Country internal code

NewRealServer

Add new origin server information

Used by actions: AddRealServers.

Name	Type	Description
RealServerId	String	Origin server ID
RealServerIP	String	Origin server IP or domain name

ProxyGroupDetail

Connection group details

Used by actions: DescribeProxyGroupDetails.

Name	Type	Description
CreateTime	Integer	Creation time
ProjectId	Integer	Project ID
ProxyNum	Integer	Number of connections in connection group
Status	Integer	Connection group status: 0 : Running normally 1 : Creating

		<p>4 : Terminating</p> <p>11 : Migrating</p> <p>12 : Deploying</p>
OwnerUin	String	Owner UIN
CreateUin	String	Creation UIN
GroupName	String	Connection name
DnsDefaultIp	String	Default IP of domain name resolution for connection groups
Domain	String	<p>Connection group domain name</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
RealServerRegionInfo	RegionDetail	Target region
IsOldGroup	Boolean	Whether it is an old connection group, i.e., those created before August 3, 2018.
GroupId	String	Connection group ID
TagSet	Array of TagPair	<p>Tag list</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
PolicyId	String	<p>Security policy ID. This field exists if security policies are set.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
Version	String	<p>Connection group version</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
ClientIPMethod	Array of Integer	<p>Describes how the connection obtains client IPs. 0 : TOA; 1 : Proxy Protocol.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
IPAddressVersion	String	<p>IP version. Valid values: IPv4 (default), IPv6 .</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
PackageType	String	<p>Package type of connection groups. Valid values: Thunder (general connection group), Accelerator (silver connection group), and CrossBorder (cross-MLC-border connection group).</p>

		Note: This field may return null, indicating that no valid values can be obtained.
Http3Supported	Integer	Specifies whether to enable HTTP3. Valid values: 0 : Disable 1 : Enable Note: This field may return null, indicating that no valid values can be obtained.
FeatureBitmap	Integer	Feature bitmap. Valid values: 0 : Feature not supported 1 : Feature supported Each bit in the bitmap represents a feature: 1st bit: Layer-4 acceleration; 2nd bit: Layer-7 acceleration; 3rd bit: HTTP3 access; 4th bit: IPv6; 5th bit: Dedicated BGP access; 6th bit: Non-BGP access; 7th bit: QoS acceleration. Note: This field may return null, indicating that no valid values can be obtained. Note: This field may return null, indicating that no valid values can be obtained.

ProxyGroupInfo

Connection group details list

Used by actions: DescribeProxyGroupList.

Name	Type	Description
GroupId	String	Connection group ID
Domain	String	Connection group domain name Note: This field may return null, indicating that no valid values can be obtained.
GroupName	String	Connection group name Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	Project ID

RealServerRegionInfo	RegionDetail	Target region
Status	String	<p>Connection group status.</p> <p>Where:</p> <ul style="list-style-type: none"> <code>RUNNING</code> : Running <code>CREATING</code> : Creating <code>DESTROYING</code> : Terminating <code>MOVING</code> : Migrating <code>CHANGING</code> : Deploying
TagSet	Array of TagPair	Tag list.
Version	String	<p>Connection group version</p> <p>Note: this field may return null, indicating that no valid values can be obtained.</p>
CreateTime	Integer	<p>Creation time</p> <p>Note: this field may return null, indicating that no valid values can be obtained.</p>
ProxyType	Integer	<p>Whether the connection group contains a Microsoft connection</p> <p>Note: this field may return null, indicating that no valid values can be obtained.</p>
Http3Supported	Integer	<p>Specifies whether to enable HTTP3. Valid values:</p> <ul style="list-style-type: none"> <code>0</code> : Disable <code>1</code> : Enable <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
FeatureBitmap	Integer	<p>Feature bitmap. Valid values:</p> <ul style="list-style-type: none"> <code>0</code> : Feature not supported <code>1</code> : Feature supported <p>Each bit in the bitmap represents a feature:</p> <ul style="list-style-type: none"> 1st bit: Layer-4 acceleration; 2nd bit: Layer-7 acceleration; 3rd bit: HTTP3 access; 4th bit: IPv6; 5th bit: Dedicated BGP access; 6th bit: Non-BGP access; 7th bit: QoS acceleration. <p>Note: this field may return <code>null</code> , indicating that no valid values can be obtained.</p> <p>Note: this field may return <code>null</code> , indicating that no valid values can be obtained.</p>

ProxyIdDict

Connection ID

Used by actions: DescribeGroupDomainConfig.

Name	Type	Required	Description
ProxyId	String	Yes	Connection ID

ProxyInfo

Connection information

Used by actions: DescribeProxies, DescribeProxyDetail.

Name	Type	Description
InstanceId	String	Connection instance ID; It's an old parameter, please switch to ProxyId. Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	Creation time in the format of UNIX timestamp, indicating the number of seconds that have elapsed since January 1, 1970 (midnight in UTC/GMT).
ProjectId	Integer	Project ID.
ProxyName	String	Connection name.
AccessRegion	String	Access region.
RealServerRegion	String	Origin server region.
Bandwidth	Integer	Bandwidth. Unit: Mbps.
Concurrent	Integer	Concurrency. Unit: 10K requests/second.
Status	String	Connection status. Valid values: RUNNING : Running CREATING : Creating DESTROYING : Terminating OPENING : Enabling CLOSING : Disabling

		<p>CLOSED : Disabled</p> <p>ADJUSTING : Adjusting configuration</p> <p>ISOLATING : Isolating</p> <p>ISOLATED : Isolated</p> <p>CLONING : Copying</p> <p>RECOVERING : Maintaining</p> <p>MOVING : Migrating</p>
Domain	String	Accessed domain name.
IP	String	Accessed IP.
Version	String	Connection versions: 1.0, 2.0, 3.0.
ProxyId	String	Connection instance ID; It's a new parameter. Note: This field may return null, indicating that no valid values can be obtained.
Scalable	Integer	1: this connection is expandable; 0: this connection is not expandable.
SupportProtocols	Array of String	Supported protocol types.
GroupId	String	Connection group ID. This field exists if a connection belongs to a connection group. Note: This field may return null, indicating that no valid values can be obtained.
PolicyId	String	Security policy ID. This field exists if security policies are configured. Note: This field may return null, indicating that no valid values can be obtained.
AccessRegionInfo	RegionDetail	Access region details, including region ID and region name. Note: This field may return null, indicating that no valid values can be obtained.
RealServerRegionInfo	RegionDetail	Origin server region details, including region ID and region name. Note: This field may return null, indicating that no valid values can be obtained.
ForwardIP	String	Forwarding IP of the connection
TagSet	Array of TagPair	Tag list. This field is an empty list if no tags exist. Note: This field may return null, indicating that no valid values can be obtained.

SupportSecurity	Integer	Whether security groups are supported. Note: This field may return null, indicating that no valid values can be obtained.
BillingType	Integer	Billing mode. 0: bill-by-bandwidth; 1: bill-by-traffic. Note: this field may return null, indicating that no valid values can be obtained.
RelatedGlobalDomains	Array of String	List of domain names associated with resolution record Note: this field may return null, indicating that no valid values can be obtained.
ModifyConfigTime	Integer	Configuration change time Note: this field may return null, indicating that no valid values can be obtained.
ProxyType	Integer	Connection type. <code>100</code> : THUNDER connection; <code>103</code> : Microsoft connection. Note: this field may return <code>null</code> , indicating that no valid value can be obtained.
ClientIPMethod	Array of Integer	Describes how the connection obtains client IPs. 0: TOA; 1: Proxy Protocol. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
IPAddressVersion	String	IP version. Valid values: <code>IPv4</code> , <code>IPv6</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
NetworkType	String	Network type. <code>normal</code> : general BGP; <code>cn2</code> : Dedicated BGP; <code>triple</code> : Non-BGP (provided by the top 3 ISPs in the Chinese mainland); <code>secure_eip</code> : Custom security EIP. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
PackageType	String	Package type of connections. Valid values: <code>Thunder</code> (general connection), <code>Accelerator</code> (silver connection), and <code>CrossBorder</code> (cross-MLC-border connection). Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
BanStatus	String	Blocking-related status of the domain name. <code>BANNED</code> : the domain name is blocked; <code>RECOVER</code> : the domain name is unblocked or normal; <code>BANNING</code> : the domain name is being blocked; <code>RECOVERING</code> : the domain name is being unblocked;

		<p><code>BAN_FAILED</code> : the blocking fails; <code>RECOVER_FAILED</code>: the unblocking fails.</p> <p>Note: this field may return <code>null</code> , indicating that no valid value can be obtained.</p>
IPList	Array of IPDetail	
Http3Supported	Integer	<p>Specifies whether to enable HTTP3. Valid values:</p> <p><code>0</code> : disable HTTP3;</p> <p><code>1</code> : enable HTTP3.</p> <p>Note: this field may return <code>null</code> , indicating that no valid value can be obtained.</p>
InBanBlacklist	Integer	<p>Indicates whether the origin server IP or domain name is in the blacklist. Valid values: <code>0</code> (no) and <code>1</code> (yes).</p> <p>Note: This field may return <code>null</code> , indicating that no valid value can be obtained.</p>
FeatureBitmap	Integer	<p>Feature bitmap. Valid values:</p> <p><code>0</code> : Feature not supported</p> <p><code>1</code> : Feature supported</p> <p>Each bit in the bitmap represents a feature:</p> <p>1st bit: Layer-4 acceleration;</p> <p>2nd bit: Layer-7 acceleration;</p> <p>3rd bit: HTTP3 access;</p> <p>4th bit: IPv6;</p> <p>5th bit: Dedicated BGP access;</p> <p>6th bit: Non-BGP access;</p> <p>7th bit: QoS acceleration.</p> <p>Note: This field may return <code>null</code> , indicating that no valid value can be obtained.</p> <p>Note: This field may return <code>null</code> , indicating that no valid value can be obtained.</p>

ProxySimpleInfo

Used by internal APIs. It returns connections from which the statistics can be derived, and the listener information.

Used by actions: `DescribeGroupAndStatisticsProxy`, `DescribeProxyAndStatisticsListeners`.

Name	Type	Description
ProxyId	String	Connection ID

ProxyName	String	Connection name
ListenerList	Array of ListenerInfo	Listener list

ProxyStatus

Connection status information

Used by actions: DescribeProxiesStatus.

Name	Type	Description
InstanceId	String	Connection instance ID.
Status	String	<p>Connection status.</p> <p>Where:</p> <ul style="list-style-type: none"> <code>RUNNING</code> : Running <code>CREATING</code> : Creating <code>DESTROYING</code> : Terminating <code>OPENING</code> : Enabling <code>CLOSING</code> : Disabling <code>CLOSED</code> : Disabled <code>ADJUSTING</code> : Adjusting configuration <code>ISOLATING</code> : Isolating <code>ISOLATED</code> : Isolated <code>MOVING</code> : Migrating

RealServer

Query listeners or rules-related origin server information, excluding `tag` information.

Used by actions: DescribeListenerRealServers, DescribeRuleRealServers.

Name	Type	Description
RealServerIP	String	Origin server IP or domain name
RealServerId	String	Origin server ID
RealServerName	String	Origin server name
ProjectId	Integer	Project ID

InBanBlacklist	Integer	Indicates whether the origin server IP or domain name is in the blacklist. Valid values: <code>0</code> (no) and <code>1</code> (yes).
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RealServerBindSetReq

Information of the bound origin server

Used by actions: BindListenerRealServers, BindRuleRealServers.

Name	Type	Required	Description
RealServerId	String	Yes	Origin server ID
RealServerPort	Integer	Yes	Origin server port
RealServerIP	String	Yes	Origin server IP
RealServerWeight	Integer	No	Origin server weight
RealServerFailoverRole	String	No	Role of the origin server. Values: <code>master</code> (primary origin server); <code>slave</code> (secondary origin server). This parameter only takes effect when origin failover is enabled for the listener.

RealServerStatus

Query the binding status of origin servers. BindStatus: 0 (not bound), 1 (bound to rules or listeners).

Used by actions: DescribeRealServersStatus.

Name	Type	Description
RealServerId	String	Origin server ID.
BindStatus	Integer	<code>0</code> : Not bound; <code>1</code> : Bound to rule or listener.
ProxyId	String	ID of the connection bound to this origin server. This string is empty if they are not bound.
GroupId	String	ID of the connection group bound to this origin server. This string is null if no connection groups are bound. Note: This field may return null, indicating that no valid values can be obtained.

RegionDetail

Region details

Used by actions: DescribeAccessRegions, DescribeDestRegions, DescribeProxies, DescribeProxyDetail, DescribeProxyGroupDetails, DescribeProxyGroupList, DescribeRegionAndPrice.

Name	Type	Description
RegionId	String	Region ID
RegionName	String	Region name in Chinese or English
RegionArea	String	Region where the data center locates
RegionAreaName	String	Name of the region where the data center locates
IDCType	String	Data center type. <code>dc</code> : data center; <code>ec</code> : edge server.
FeatureBitmap	Integer	<p>Feature bitmap. Valid values:</p> <ul style="list-style-type: none"> <code>0</code> : the feature is not supported; <code>1</code> : the feature is supported. <p>Each bit in the bitmap represents a feature:</p> <ul style="list-style-type: none"> 1st bit: layer-4 acceleration; 2nd bit: layer-7 acceleration; 3rd bit: HTTP3 access; 4th bit: IPv6; 5th bit: dedicated BGP access; 6th bit: non-BGP access; 7th bit: QoS acceleration. <p>Note: this field may return <code>null</code> , indicating that no valid values can be obtained.</p>
SupportFeature	SupportFeature	<p>Network support</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>

RuleCheckParams

Health check parameters of the layer-7 listeners' forwarding rules

Used by actions: CreateRule, DescribeRules, DescribeRulesByRuleIds, ModifyRuleAttribute.

Name	Type	Required	Description
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DelayLoop	Integer	Yes	Time interval of health check
ConnectTimeout	Integer	Yes	Response timeout of health check
Path	String	Yes	Check path of health check
Method	String	Yes	Health check method: GET/HEAD
StatusCode	Array of Integer	Yes	Return code indicting normal origin servers. Value range: [100, 200, 300, 400, 500]
Domain	String	No	Domain name to be performed health check You cannot modify this parameter when calling ModifyRuleAttribute API.
FailedCountInter	Integer	No	Origin server failure check frequency Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
FailedThreshold	Integer	No	Origin server health check threshold. All requests to the origin server will be blocked once the threshold is exceeded. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
BlockInter	Integer	No	Duration to block requests targeting the origin server after a failed health check Note: this field may return <code>null</code> , indicating that no valid values can be obtained.

RuleInfo

Forwarding rule of layer-7 listeners

Used by actions: DescribeRules, DescribeRulesByRuleIds.

Name	Type	Description
RuleId	String	Rule information
ListenerId	String	Listener information
Domain	String	Rule domain name
Path	String	Rule path
RealServerType	String	Origin server type

Scheduler	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrtt</code> (the least-response-time strategy).
HealthCheck	Integer	Whether health check is enabled. 1: enabled, 0: disabled
RuleStatus	Integer	Rule status. 0: running, 1: creating, 2: terminating, 3: binding/unbinding origin server, 4: updating configuration
CheckParams	RuleCheckParams	Health check parameters
RealServerSet	Array of BindRealServer	Bound origin server information
BindStatus	Integer	Origin server service status. 0: exceptional, 1: normal If health check is not enabled, this status will always be normal. As long as one origin server is exceptional, this status will be exceptional. Please view RealServerSet for the status of specific origin servers.
ForwardHost	String	The <code>host</code> carried in the request forwarded from the connection to the origin server. <code>default</code> indicates directly forwarding the received 'host'. Note: This field may return null, indicating that no valid values can be obtained.
ServerNameIndicationSwitch	String	Specifies whether to enable Server Name Indication (SNI). Valid values: <code>ON</code> (enable) and <code>OFF</code> (disable). Note: This field may return <code>null</code> , indicating that no valid value can be obtained. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ServerNameIndication	String	Server Name Indication (SNI). This field is required when ServerNameIndicationSwitch is <code>ON</code> . Note: This field may return <code>null</code> , indicating that no valid value can be obtained. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ForcedRedirect	String	Forces requests to redirect to HTTPS. When

`https:` is passed in, all requests are redirected to HTTPS.

Note: This field may return null, indicating that no valid values can be obtained.

SecurityPolicyRuleIn

Security policy rule (input parameter)

Used by actions: CreateSecurityRules.

Name	Type	Required	Description
SourceCidr	String	Yes	Source IP or IP range of the request.
Action	String	Yes	Policy: Allow (ACCEPT) or reject (DROP).
AliasName	String	No	Rule alias
Protocol	String	No	Protocol: TCP or UDP. ALL indicates all protocols.
DestPortRange	String	No	Target port. Formatting examples: Single port: 80 Multiple ports: 80, 443 Consecutive ports: 3306-20000 All ports: ALL

SecurityPolicyRuleOut

Security policy rule (output parameter)

Used by actions: DescribeSecurityPolicyDetail, DescribeSecurityRules.

Name	Type	Description
Action	String	Policy: Allow (ACCEPT) or reject (DROP).
SourceCidr	String	Source IP or IP range of the request.
AliasName	String	Rule alias
DestPortRange	String	Target port range Note: This field may return null, indicating that no valid values can be obtained.

RuleId	String	Rule ID
Protocol	String	Protocol type to be matched (TCP/UDP) Note: This field may return null, indicating that no valid values can be obtained.
PolicyId	String	Security policy ID Note: This field may return null, indicating that no valid values can be obtained.

StatisticsDataInfo

Statistics information

Used by actions: DescribeListenerStatistics, DescribeProxyGroupStatistics, DescribeProxyStatistics, DescribeRealServerStatistics.

Name	Type	Description
Time	Integer	Corresponding time point
Data	Float	Statistics value Note: This field may return null, indicating that no valid values can be obtained.

SupportFeature

Network support

Used by actions: DescribeAccessRegions, DescribeDestRegions, DescribeProxies, DescribeProxyDetail, DescribeRegionAndPrice.

Name	Type	Description
NetworkType	Array of String	Supported network types. <code>normal</code> : General BGP; <code>cn2</code> : Dedicated BGP; <code>triple</code> : Non-BGP (provided by the top 3 ISPs in the Chinese mainland); <code>secure_eip</code> : Custom security EIPs.

TCPListener

TCP listener information

Used by actions: DescribeTCPListeners.

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Name	Type	Description
ListenerId	String	Listener ID
ListenerName	String	Listener name
Port	Integer	Listener port
RealServerPort	Integer	Origin server port, which is only valid for the connections of version 1.0. Note: This field may return null, indicating that no valid values can be obtained.
RealServerType	String	Type of the origin server bound to listeners
Protocol	String	Listener protocol: TCP.
ListenerStatus	Integer	Listener status: 0 : Running 1 : Creating 2 : Terminating 3 : Adjusting origin server 4 : Adjusting configuration
Scheduler	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrrt</code> (the least-response-time strategy).
ConnectTimeout	Integer	Response timeout of origin server health check (unit: seconds).
DelayLoop	Integer	Time interval of origin server health check (unit: seconds).
HealthCheck	Integer	Whether to enable the listener health check: 0 : Disable 1 : Enable
BindStatus	Integer	Status of the origin server bound to listeners: 0 : Abnormal 1 : Normal
RealServerSet	Array of BindRealServer	Information of the origin server bound to listeners Note: This field may return null, indicating that no valid values can be obtained.
CreateTime	Integer	Listener creation time in the format of UNIX timestamp
ClientIPMethod	Integer	Describes how the listener obtains client IPs. 0 : TOA; 1 : Proxy

		<p>Protocol.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
HealthyThreshold	Integer	<p>Healthy threshold. The number of consecutive successful health checks required before considering an origin server healthy. Value range: 1 - 10.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
UnhealthyThreshold	Integer	<p>Unhealthy threshold. The number of consecutive failed health checks required before considering an origin server unhealthy. Value range: 1 - 10.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
FailoverSwitch	Integer	<p>Whether to enable the primary/secondary origin server mode for failover. Values: <code>1</code> (enabled); <code>0</code> (disabled). It's not available if the origin type is <code>DOMAIN</code>.</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
SessionPersist	Integer	<p>Specifies whether to enable session persistence. Values: <code>0</code> (disable), <code>1</code> (enable)</p> <p>Note: This field may return null, indicating that no valid values can be obtained.</p>
ProxyId	String	<p>Connection ID of the listener. A null value is returned if the listener is associated with the connection group.</p> <p>Note: This field may return <code>null</code>, indicating that no valid value can be obtained.</p>
GroupId	String	<p>Connection group ID of the listener. A null value is returned if the listener is associated with a specific connection.</p> <p>Note: This field may return <code>null</code>, indicating that no valid value can be obtained.</p>

TagPair

Tag key-value pair

Used by actions: AddRealServers, CreateProxy, CreateProxyGroup, DescribeProxies, DescribeProxyDetail, DescribeProxyGroupDetails, DescribeProxyGroupList, DescribeRealServers.

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Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	String	Yes	Tag value

TagResourceInfo

Resource information of the tag

Used by actions: DescribeResourcesByTag.

Name	Type	Description
ResourceType	String	Resource types: Proxy : Connection ProxyGroup : Connection group RealServer : Origin server
ResourceId	String	Instance ID

UDPLListener

UDP listener information

Used by actions: DescribeUDPLListeners.

Name	Type	Description
ListenerId	String	Listener ID
ListenerName	String	Listener name
Port	Integer	Listener port
RealServerPort	Integer	Origin server port, which is only valid for the connections or connection groups of version 1.0. Note: This field may return null, indicating that no valid values can be obtained.
RealServerType	String	Type of the origin server bound to listeners
Protocol	String	Listener protocol: UDP.

ListenerStatus	Integer	Listener status: <code>0</code> : Running <code>1</code> : Creating <code>2</code> : Terminating <code>3</code> : Adjusting origin server <code>4</code> : Adjusting configuration
Scheduler	String	The strategy used by the listener to access the origin server. Values: <code>rr</code> (round-robin), <code>wrr</code> (weighted round-robin), <code>lc</code> (the least-connections strategy), <code>lrrtt</code> (the least-response-time strategy).
BindStatus	Integer	Origin server binding status of listeners. <code>0</code> : Normal; <code>1</code> : IP exception; <code>2</code> : Domain name resolution exception.
RealServerSet	Array of BindRealServer	Information of the origin server bound to listeners
CreateTime	Integer	Listener creation time in the format of UNIX timestamp
SessionPersist	Integer	Specifies whether to enable session persistence. Values: <code>0</code> (disable), <code>1</code> (enable) Note: This field may return null, indicating that no valid values can be obtained.
DelayLoop	Integer	Time interval of origin server health check (unit: seconds). Value range: [5, 300]. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ConnectTimeout	Integer	Response timeout of origin server health check (unit: seconds). Value range: [2, 60]. The timeout value shall be less than the time interval for health check DelayLoop. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
HealthyThreshold	Integer	Healthy threshold. The number of consecutive successful health checks required before considering an origin server healthy. Value range: 1 - 10. Note: This field may return null, indicating that no valid values can be obtained.
UnhealthyThreshold	Integer	Unhealthy threshold. The number of consecutive failed health checks required before considering an origin server unhealthy. Value range: 1 - 10.

		Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
FailoverSwitch	Integer	Whether to enable the primary/secondary origin server mode for failover. Values: <code>1</code> (enabled); <code>0</code> (disabled). It's not available if the origin type is <code>DOMAIN</code> . Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
HealthCheck	Integer	Whether the health check is enabled for the origin server. Values: <code>1</code> (enabled); <code>0</code> (disabled). Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
CheckType	String	The health check type. Values: <code>PORT</code> (port); <code>PING</code> (ping). Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
CheckPort	Integer	The health probe port. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
ContextType	String	The UDP message type. Values: <code>TEXT</code> (text). This parameter is used only when <code>CheckType = PORT</code> . Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
SendContext	String	The UDP message sent by the health probe port. This parameter is used only when <code>CheckType = PORT</code> . Note: This field may return <code>null</code> , indicating that no valid value can be obtained.
RecvContext	String	The UDP message received by the health probe port. This parameter is used only when <code>CheckType = PORT</code> . Note: This field may return <code>null</code> , indicating that no valid values can be obtained.
ProxyId	String	Connection ID of the listener. A null value is returned if the listener is associated with the connection group. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
GroupId	String	Connection group ID of the listener. A null value is returned if the listener is associated with a specific connection. Note: This field may return <code>null</code> , indicating that no valid value can be obtained.

Error Codes

Last updated : 2022-10-28 17:48:37

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	<code>Authorization</code> 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
AuthFailure	CAM signature/authentication error.
AuthFailure.NotEnterpriseAuthorization	Not an organizational customer.
FailedOperation.AccountBalanceInsufficient	Unable to create this connection: insufficient account balance.
FailedOperation.ActionIsDoing	The operation is being performed. Do not perform it again.
FailedOperation.ActionOperateTooQuickly	Too many attempts. Please try again later.
FailedOperation.BelongDifferentGroup	Unable to operate in batches: the connections belong to different groups.
FailedOperation.CertificateIsUsing	Unable to operate: the certificate is occupied.
FailedOperation.DeleteProxyGroupProxyRemained	Unable to delete: the connection group contains

	groups.
FailedOperation.DomainAlreadyExisted	The domain name is used by a listener.
FailedOperation.DomainStatusNotInRunning	Operation unavailable: the domain name is not running.
FailedOperation.DuplicatedRequest	Repeated request. Please check the value of ClientToken.
FailedOperation.GroupStatusNotInRuning	Unable to operate: the connection group is not running.
FailedOperation.InstanceStatusNotInRuning	Unable to operate: the connection is not running.
FailedOperation.InvalidListenerProtocol	Invalid listener protocol.
FailedOperation.LimitNumofListener	Limit on the number of listeners exceeded.
FailedOperation.LimitNumofProxiesInGroup	The number of connections in the connection group exceeded the limit.
FailedOperation.LimitNumofRules	Limit on the number of forwarding rules exceeded.
FailedOperation.LimitRealServerNum	Limit on the number of bound origin servers exceeded.
FailedOperation.ListenerHasTask	The listener is in operation. Do not repeat the operation.
FailedOperation.ListenerStatusError	The listener does not support this operation in current status.
FailedOperation.Migration	The acceleration connection is being upgraded. To change the configuration, please submit a ticket.
FailedOperation.NonStandardProxy	This connection is non-standard and write operations are not allowed.
FailedOperation.NotSupportOldVersionProxy	Only connections of Version 2.0 are supported.
FailedOperation.NotSupportProxyGroup	This operation is not supported for connection groups.
FailedOperation.NotSupportScalar	The configuration change is not supported.
FailedOperation.OperateLimitNumofListener	Limit on the number of ports for a single operation exceeded.

FailedOperation.ProxySecurityAlreadyClose	The security policy has been disabled. Do not repeat the operation.
FailedOperation.ProxySecurityAlreadyOpen	The security policy has been enabled. Do not repeat the operation.
FailedOperation.ProxySecurityPolicyDefaultRule	Failed to add the rule: default connection access rules cannot be denied.
FailedOperation.ProxySecurityPolicyDuplicatedRule	Failed to add rules: repeated security protection access rules.
FailedOperation.ProxySecurityPolicyExisted	The security policy already exists. Do not create it again.
FailedOperation.ProxySecurityPolicyOperating	There are ongoing operations related to the connection security policy.
FailedOperation.ProxySellOut	The line is sold out or the resource is insufficient. Please submit a ticket.
FailedOperation.ProxyStatusNotInRuning	Unable to add listeners: the connection is not running.
FailedOperation.ProxyVersionNotSupport	This version of connection is not supported.
FailedOperation.RealServerAlreadyBound	Failed to delete: it's bound to an origin server.
FailedOperation.RealServerNotInProject	The origin server do not belong to this project.
FailedOperation.ResourceCanNotAccess	This resource is not accessible.
FailedOperation.ResourceUpgrading	The resource is being upgraded.
FailedOperation.RuleAlreadyExisted	Rule already exists.
FailedOperation.TagResourcesFailed	Failed to add the tag to the resource.
FailedOperation.UnTagResourcesFailed	Failed to unbind the tag.
FailedOperation.UserNotAuthenticated	The current account has not completed identity verification.
FailedOperation.UserNotConfirmProtocol	Protocol not activated.
InvalidParameterValue.CertificateContentNotMatchKey	Mismatch between the certificate and the private key
InvalidParameterValue.CertificateNotMatchDomain	The HTTP certificate does not match the domain name.

InvalidParameterValue.DomainInIcpBlacklist	The domain name is blocked for ICP issues.
InvalidParameterValue.DomainNotRegister	The domain name does not have an ICP filing.
InvalidParameterValue.DuplicateRS	The <code>RealServer</code> already exists.
InvalidParameterValue.DuplicatedListenerPort	Listener port already exists.
InvalidParameterValue.FeatureConflict	The features to be enabled conflict with each other.
InvalidParameterValue.HitBanBlacklist	The resource has been added to the blacklist.
InvalidParameterValue.HitBlacklist	The header is blacklisted.
InvalidParameterValue.InvalidBandwidth	The bandwidth value is not in the range.
InvalidParameterValue.InvalidCertificateContent	Failed to resolve. Please check the format of certificate content.
InvalidParameterValue.InvalidCertificateId	Certificate unavailable.
InvalidParameterValue.InvalidCertificateKey	Failed to resolve. Please check the format of certificate key.
InvalidParameterValue.InvalidConcurrency	The number of concurrences is not in the range.
InvalidParameterValue.InvalidListenerPort	The listener port is not available.
InvalidParameterValue.InvalidTags	The tag is not found or you have no access permission to it.
InvalidParameterValue.L7DomainHitBanBlacklist	The domain name has been blocked and cannot be added.
InvalidParameterValue.ProjectIdNotBelong	The project does not belong to this user.
InvalidParameterValue.ProxyAndGroupFeatureConflict	Cross-MLC-border connection is not supported in this connection group.
InvalidParameterValue.ProxyAndRegionFeatureConflict	The configuration of the cross-MLC-border connection is not supported in this region.
InvalidParameterValue.RealServerNotBelong	The origin server does not belong to this user.
InvalidParameterValue.UnknownAccessRegion	The acceleration region is not found or you have no access permission to it.
InvalidParameterValue.UnknownDestRegion	The origin server region is not found or you have no access permission to it.

LimitExceeded.TagQuota	Insufficient tags
ResourceUnavailable.AccountViolation	Restricted resources found in your account. Check your inbox and email for details.
UnauthorizedOperation.CrossBorderInIsolating	The CUCC cross-MLC-border connection expired and is isolated.