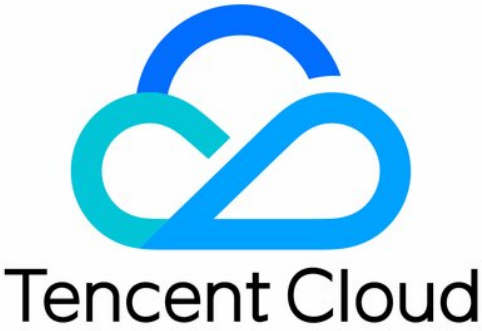
Anti-DDoS Pro

API Documentation

Product Documentation



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API Documentation History

Last updated：2023-02-17 10:17:53

Release 17

Release time: 2023-02-17 10:14:40

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeBizHttpStatus

Modified APIs:

- DescribeListBGPIPInstances
  - New input parameters:FilterConvoy
- DescribeListBGPInstances
  - New input parameters:FilterTrialFlag, FilterConvoy, ExcludeAdvancedInfo
- SwitchWaterPrintConfig
  - New input parameters:CloudSdkProxy

New data structures:

- HttpStatusMap

Modified data structures:

- BGPIPInstance
  - New members:ConvoyId, ElasticBandwidth, EOFlag
- BGPInstance
  - New members:Line, ElasticServiceBandwidth
- NewL7RuleEntry
  - New members:Version
- WaterPrintConfig
  - New members:CloudSdkProxy

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Release 16

Release time: 2022-12-02 14:48:36

Release updates:

Improvement to existing documentation.

New APIs:

- DescribePendingRiskInfo

Modified APIs:

- DescribeListBGPInstances
  - New input parameters:FilterLightFlag, FilterChannelFlag

Modified data structures:

- PacketFilterConfig
  - New members:PktLenGT
- ProtectThresholdRelation
  - New members:SynFloodThreshold, SynFloodPktThreshold, UdpFloodThreshold, UdpFloodPktThreshold, AckFloodThreshold, AckFloodPktThreshold, SynAckFloodThreshold, SynAckFloodPktThreshold, RstFloodThreshold, RstFloodPktThreshold
- ProtocolBlockConfig
  - New members:PingOfDeath, TearDrop

Release 15

Release time: 2022-10-17 10:14:00

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeNewL7RulesErrHealth

Modified data structures:

- BGPInstance
  - New members:VitalityVersion

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Release 14

Release time: 2022-09-23 17:40:05

Release updates:

Improvement to existing documentation.

New APIs:

- CreateNewL7Rules
- DescribeBgpBizTrend
- DescribeNewL7Rules

New data structures:

- L7RuleEntry
- L7RuleHealth

Modified data structures:

- L4RuleSource
  - New members:Backup

Release 13

Release time: 2022-09-07 16:21:05

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeListBGPInstances
  - New input parameters:FilterInstanceIdList, FilterEnterpriseFlag, FilterTag

Modified data structures:

- BGPInstance
  - New members:TagInfoList, IpCountNewFlag
- BGPInstanceSpecification
  - New members:BattleEditionFlag, ChannelEditionFlag, EnterpriseFlag, ElasticLimit

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Release 12

Release time: 2022-08-09 17:27:22

Release updates:

Improvement to existing documentation.

Deleted APIs:

- DeleteBlackWhiteIpList

Modified APIs:

- CreateCCReqLimitPolicy
  - New input parameters:IsGlobal
- DescribeListBGPIPInstances
  - New input parameters:FilterPackType

New data structures:

- AnycastOutPackRelation

Modified data structures:

- BGPIPInstance
  - New members:AnycastOutPackRelation, InstanceVersion
- BlackWhiteIpRelation
  - New members:ModifyTime
- PacketFilterRelation
  - New members:ModifyTime

Release 11

Release time: 2022-06-30 11:32:03

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeOverviewDDoSEventList

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Modified APIs:

- DescribeListBGPIPInstances
  - New input parameters:FilterCname, FilterInstanceIdList, FilterTag
- DescribeListIPAlarmConfig
  - New input parameters:FilterCname

New data structures:

- OverviewDDoSEvent
- RuleInstanceRelation
- TagFilter
- TagInfo

Modified data structures:

- BGPIPInstance
  - New members:BGPIPChannelFlag, TagInfoList
- IPLineInfo
  - New members:Cname, ResourceFlag
- Layer4Rule
  - New members:InstanceDetailRule
- Layer7Rule
  - New members:InstanceDetailRule

Release 10

Release time: 2022-06-23 15:45:27

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeCCPrecisionPlyList
- DescribeCcBlackWhiteIpList
- DescribeCcGeoIPBlockConfigList
- DescribeListBGPInstances

New data structures:

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- BGPInstance
- BGPInstanceSpecification
- BGPInstanceUsages
- CCPrecisionPolicy
- CcBlackWhiteIpPolicy
- CcGeoIpPolicyNew
- EipProductInfo

Release 9

Release time: 2022-04-27 11:14:20

Release updates:

Improvement to existing documentation.

Modified data structures:

- NewL7RuleEntry
  - New members:RewriteHttps, ErrCode

Release 8

Release time: 2022-04-14 14:38:03

Release updates:

Improvement to existing documentation.

Deleted APIs:

- DescribeCCPrecisionPlyList
- DescribeCcBlackWhiteIpList
- DescribeCcGeoIPBlockConfigList
- DescribeListBGPInstances

Modified APIs:

- CreateSchedulingDomain
  - New input parameters:Product

Deleted data structures:

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- BGPInstance
- BGPInstanceSpecification
- BGPInstanceUsages
- CCPrecisionPolicy
- CcBlackWhiteIpPolicy
- CcGeoIpPolicyNew
- EipProductInfo

Release 7

Release time: 2022-03-16 20:18:10

Release updates:

Improvement to existing documentation.

New APIs:

- CreateCCPrecisionPolicy
- CreateCCReqLimitPolicy
- CreateCcBlackWhiteIpList
- CreateCcGeoIPBlockConfig
- DeleteCCLevelPolicy
- DeleteCCPrecisionPolicy
- DeleteCCThresholdPolicy
- DeleteCcBlackWhiteIpList
- DeleteCcGeoIPBlockConfig
- DescribeCCLevelList
- DescribeCCLevelPolicy
- DescribeCCPrecisionPlyList
- DescribeCCThresholdList
- DescribeCcBlackWhiteIpList
- DescribeCcGeoIPBlockConfigList
- ModifyCCPrecisionPolicy
- ModifyCcBlackWhiteIpList

Modified APIs:

- AssociateDDoSEipLoadBalancer
  - New input parameters:Vip

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New data structures:

- CCLevelPolicy
- CCPrecisionPlyRecord
- CCPrecisionPolicy
- CCReqLimitPolicyRecord
- CCThresholdPolicy
- CcBlackWhiteIpPolicy
- CcGeoIPBlockConfig
- CcGeoIpPolicyNew
- IpSegment

Release 6

Release time: 2022-02-16 11:37:32

Release updates:

Improvement to existing documentation.

Modified APIs:

- DescribeListBGPIPInstances
  - New input parameters:FilterStatus
- DescribeListBGPInstances
  - New input parameters:FilterStatus, FilterBoundStatus

Release 5

Release time: 2021-12-06 11:02:00

Release updates:

Improvement to existing documentation.

New APIs:

- ModifyNewDomainRules

Modified APIs:

- DescribeListBGPIPInstances

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- New input parameters:FilterDamDDoSStatus

New data structures:

- L4RuleSource
- NewL7RuleEntry

Modified data structures:

- BGPIPInstance
  - New members:DamDDoSStatus, V6Flag

Release 4

Release time: 2021-09-15 16:57:25

Release updates:

Improvement to existing documentation.

New APIs:

- DescribeBizTrend
- DescribeCCTrend
- DescribeDDoSTrend

New data structures:

- ProtocolPort

Release 3

Release time: 2021-09-03 17:29:41

Release updates:

Improvement to existing documentation.

New APIs:

- AssociateDDoSEipLoadBalancer
- DescribeBasicDeviceStatus

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New data structures:

- KeyValue

Modified data structures:

- BGPIPInstance
  - New members:Domain

Release 2

Release time: 2021-08-17 10:12:44

Release updates:

Improvement to existing documentation.

New APIs:

- SwitchWaterPrintConfig

Release 1

Release time: 2021-07-21 16:40:00

Release updates:

Improvement to existing documentation.

New APIs:

- AssociateDDoSEipAddress
- CreateBlackWhiteIpList
- CreateBoundIP
- CreateDDoSAI
- CreateDDoSGeoIPBlockConfig
- CreateDDoSSpeedLimitConfig
- CreateDefaultAlarmThreshold
- CreateIPAlarmThresholdConfig
- CreateL7RuleCerts
- CreatePacketFilterConfig
- CreateProtocolBlockConfig

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- CreateSchedulingDomain
- CreateWaterPrintConfig
- CreateWaterPrintKey
- DeleteBlackWhiteIpList
- DeleteDDoSGeoIPBlockConfig
- DeleteDDoSSpeedLimitConfig
- DeletePacketFilterConfig
- DeleteWaterPrintConfig
- DeleteWaterPrintKey
- DescribeBlackWhiteIpList
- DescribeDefaultAlarmThreshold
- DescribeL7RulesBySSLCertId
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- DescribeListDDoSSpeedLimitConfig
- DescribeListIPAlarmConfig
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- ModifyDomainUsrName
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New data structures:

- BGPIPInstance
- BGPIPInstanceSpecification
- BGPIPInstanceUsages
- BGPInstance
- BGPInstanceSpecification

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- BGPInstanceUsages
- BlackWhiteIpRelation
- BoundIpInfo
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- DDoSGeoIPBlockConfig
- DDoSGeoIPBlockConfigRelation
- DDoSSpeedLimitConfig
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- ProtocolBlockRelation
- ProxyTypeInfo
- RegionInfo
- SchedulingDomainInfo
- SourceServer
- SpeedValue
- StaticPackRelation
- SuccessCode
- WaterPrintConfig
- WaterPrintKey
- WaterPrintRelation

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Introduction

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Anti-DDoS Pro is a paid anti-DDoS service. You can associate it with your IPs directly, and don’t need to change the original IPs.

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API Category

Last updated：2023-02-17 10:17:53

Connection Configuration APIs

API Name	Feature
CreateL7RuleCerts	Configures certificates with layer-7 forwarding rules in a batch
CreateNewL7Rules	Adds layer-7 forwarding rules
DescribeNewL7RulesErrHealth	Gets the exception results of the health check on layer-7 forwarding rules
ModifyNewDomainRules	Modifies layer-7 forwarding rules

Resource List APIs

API Name	Feature
CreateBoundIP	Binds an IP to an Anti-DDoS Pro instance
DescribeL7RulesBySSLCertId	Queries layer-7 rules matched with certificate IDs
DescribeListBGPIPInstances	Gets a list of Anti-DDoS Advanced instances
DescribeListBGPInstances	Gets a list of Anti-DDoS Pro instances
DescribeListListener	Gets a list of forwarding listeners
DescribeNewL7Rules	Obtains layer-7 forwarding rules

Anti-DDoS Advanced Instance APIs

API Name	Feature
AssociateDDoSEipAddress	Binds EIPs
AssociateDDoSEipLoadBalancer	Binds an Anti-DDoS EIP to a CLB instance
DisassociateDDoSEipAddress	Unbinds an Anti-DDoS EIP

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Other APIs

API Name	Feature
CreateCCPrecisionPolicy	Adds CC precise protection policies
CreateCCReqLimitPolicy	Adds CC frequency limit policies
DeleteCCLevelPolicy	Deletes a level-defining policy of CC attacks
DeleteCCPrecisionPolicy	Deletes CC precise protection policies
DeleteCCThresholdPolicy	Deletes a CC cleansing threshold policy
DescribeBasicDeviceStatus	Gets the Anti-DDoS protection status
DescribeCCLevelList	Queries the list of CC protection levels.
DescribeCCLevelPolicy	Queries a level-defining policy of CC attacks
DescribeCCPrecisionPlyList	Obtains the list of CC precise protection policies
DescribeCCThresholdList	Queries the list of CC cleansing thresholds
ModifyCCPrecisionPolicy	Modifies a CC precise protection policy

Alarm Notification APIs

API Name	Feature
CreateDefaultAlarmThreshold	Sets the default alarm threshold of an IP
CreateIPAlarmThresholdConfig	Sets the alarm threshold of an IP
DescribeDefaultAlarmThreshold	Gets the default alarm threshold of an IP
DescribeListIPAlarmConfig	Gets a list of IP alarm threshold configurations

Statistical Report APIs

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API Name	Feature
DescribeBgpBizTrend	Obtains Anti-DDoS Pro traffic data
DescribeBizHttpStatus	Gets the statistics on the status codes of business traffic
DescribeBizTrend	Gets the traffic flow data collected in the specified period
DescribeCCTrend	Gets CC attack data
DescribeDDoSTrend	Gets DDoS attack data
DescribeOverviewDDoSEventList	Obtains the list of DDoS attacks
DescribePendingRiskInfo	Queries the information of pending risks at the account-level

Intelligent Scheduling APIs

API Name	Feature
CreateSchedulingDomain	Creates a domain name for IP scheduling and switching
DescribeListSchedulingDomain	Gets a list of intelligent scheduling domain names
ModifyDomainUsrName	Modifies intelligent scheduling domain names

Protection Configuration APIs

API Name	Feature
CreateBlackWhiteIpList	Adds an Anti-DDoS IP blocklist/allowlist
CreateCcBlackWhiteIpList	Creates a layer 4 access control list to prevent CC attacks
CreateCcGeoIPBlockConfig	Creates regional blocking configurations
CreateDDoSAI	Sets Anti-DDoS AI protection switches
CreateDDoSGeoIPBlockConfig	Adds Anti-DDoS region blocking configurations
CreateDDoSSpeedLimitConfig	Adds Anti-DDoS access rate limit configurations
CreatePacketFilterConfig	Adds Anti-DDoS feature filtering rules

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CreateProtocolBlockConfig	Sets Anti-DDoS protocol blocking configurations
CreateWaterPrintConfig	Adds Anti-DDoS watermark configurations
CreateWaterPrintKey	Adds Anti-DDoS watermark keys
DeleteCcBlackWhiteIpList	Deletes a layer-4 access control list
DeleteCcGeoIPBlockConfig	Deletes a regional blocking configuration
DeleteDDoSGeoIPBlockConfig	Deletes Anti-DDoS region blocking configurations
DeleteDDoSSpeedLimitConfig	Deletes Anti-DDoS access rate limit configurations
DeletePacketFilterConfig	Deletes Anti-DDoS feature filtering rules
DeleteWaterPrintConfig	Deletes Anti-DDoS watermark configurations
DeleteWaterPrintKey	Deletes Anti-DDoS watermark keys
DescribeBlackWhiteIpList	Gets an Anti-DDoS IP blocklist/allowlist
DescribeCcBlackWhiteIpList	Obtains the layer-4 access control list
DescribeCcGeoIPBlockConfigList	Obtains a list of regional blocking configurations
DescribeListBlackWhiteIpList	Gets a list of Anti-DDoS IP blocklists/allowlists
DescribeListDDoSAI	Gets a list of Anti-DDoS AI protection switches
DescribeListDDoSGeoIPBlockConfig	Gets a list of Anti-DDoS region blocking configurations
DescribeListDDoSSpeedLimitConfig	Gets a list of Anti-DDoS access rate limit configurations
DescribeListPacketFilterConfig	Gets a list of Anti-DDoS feature filtering rules
DescribeListProtectThresholdConfig	Gets a list of protection threshold configurations
DescribeListProtocolBlockConfig	Gets a list of Anti-DDoS protocol blocking configurations
DescribeListWaterPrintConfig	Gets a list of Anti-DDoS watermark configurations
ModifyCcBlackWhiteIpList	Modifies a layer-4 access control list
ModifyDDoSGeoIPBlockConfig	Modifies Anti-DDoS region blocking configurations
ModifyDDoSSpeedLimitConfig	Modifies Anti-DDoS access rate limit configurations
ModifyPacketFilterConfig	Modifies Anti-DDoS feature filtering rules

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SwitchWaterPrintConfig	Enables/Disables Anti-DDoS watermark configurations

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Making API Requests
Request Structure

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1. Service Address

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

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Southeast Asia (Bangkok)	antiddos.ap-bangkok.tencentcloudapi.com
South Asia (Mumbai)	antiddos.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	antiddos.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	antiddos.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	antiddos.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	antiddos.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	antiddos.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	antiddos.eu-frankfurt.tencentcloudapi.com
Europe (Moscow)	antiddos.eu-moscow.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.

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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.

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Common Params

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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 `Action` in the input parameters in r documentation. For example, the API for querying the CVM instance list i `DescribeInstances` .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter `Region` in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relate 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 for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter `Version` in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ 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 i UTC time, and this value must match the value of X-TC-Timestamp (a co

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			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencen refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication informatic 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 tempora can obtain the temporary key and token by calling a CAM API. No token i 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/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
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=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
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):

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```
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 `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances`.
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 `Region` 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.

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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 `Timestamp` 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 `Version` 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&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&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:

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```
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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key console page.
3. On the TencentCloud API Key page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including Python, Java, PHP, Go, NodeJS and .NET. In addition, it provides API Explorer which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

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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' +
```

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```
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` 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 sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

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	`[{"Values": ["unnamed"], "Name": "instance-name"}]` in this exampl The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay of the HTTP request, performing hexadecimal encoding, and finally converting the enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b49`

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 `TC3-HMAC-SHA256`.
RequestTimestamp	Request timestamp, i.e., the value of the common parameter `X-TC-Timestamp` in request header, which is the UNIX timestamp of the current time in seconds, such as `1551113065` in this example.
CredentialScope	Scope of the credential in the format of `Date/service/tc3_request`, including date, requested service and termination string (tc3_request). **`Date` is a date in UT time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp`**; `service` is the product name, which should m the domain name of the product called. The calculation result in this example is `2019-25/cvm/tc3_request`.

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HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequ The calculation result in this example is `2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad`

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
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

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.

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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 `TC3-HMAC-SHA256`.
SecretId	The SecretId in the key pair, i.e., `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`.
CredentialScope	Credential scope (see above). The calculation result in this example is `2019-02-25/cvm/tc3_request`.
SignedHeaders	Header information for signature calculation (see above), such as `content-type;host` in this example.
Signature	Signature value. The calculation result in this example is `c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff`.

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc
3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301
bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437
e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

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```
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&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%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.

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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 ************
```

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```
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + 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" + canoni
calQueryString + "\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, string
ToSign)).toLowerCase();
System.out.println(signature);

// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "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)
```

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```
.append(" -H \"Authorization: ").append(authorization).append("\"")
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\"")
.append(" -H \"X-TC-Action: ").append(action).append("\"")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\"")
.append(" -H \"X-TC-Version: ").append(version).append("\"")
.append(" -H \"X-TC-Region: ").append(region).append("\"")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
}
```

Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"
]}]}

# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
```

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```
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")).hexd
igest()
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.sha2
56).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

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```
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,
```

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```
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

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```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 = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$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;
```

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```
// 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 = ''
```

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```
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 \
```

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```
+ ' -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
```

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```
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);
```

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```
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 proj
ect, 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\\u5
47d\\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);
}
}
```

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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" + "hos
t:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"
```

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```
+ 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()
```

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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++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
```

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```
}
string HmacSha256(const string &key, const string &input)
{
unsigned char hash[32];

HMAC_CTX *h;
#if OPENSSL_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 OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX_cleanup(h);
#else
HMAC_CTX_free(h);
#endif

std::stringstream ss;
ss << std::setfill('0');
for (int i = 0; i < len; i++)
{
ss << hash[i];
}

return (ss.str());
}
string HexEncode(const string &input)
{
static const char* const lut = "0123456789abcdef";
size_t len = input.length();

string output;
output.reserve(2 * len);
for (size_t i = 0; i < len; ++i)
{
const unsigned char c = input[i];
output.push_back(lut[c >> 4]);
output.push_back(lut[c & 15]);
}
```

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```
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" + canoni
calQueryString + "\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" + credentialScop
e + "\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");
```

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```
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).

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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.

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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',
}
```

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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

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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

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The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See SDK Center for more information. Currently, the following programming languages are supported:

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12
```

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

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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.getAlg
orithm());
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. TreeM
ap 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 UnsupportedEnc
odingException {
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 lette
rs, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHAR
SET)).append("&");
```

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```
}
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(java.lang.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)
```

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```
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
```

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```
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*******";
$param["Nonce"] = 11886;//rand();
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;
ksort($param);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param 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
```

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```
// $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, sig
n))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

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```
# 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;
```

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```
// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();
string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

NodeJS

```
const crypto = require('crypto');
function get_req_url(params, endpoint){
params['Signature'] = escape(params['Signature']);
const url_strParam = sort_params(params)
return "https://" + endpoint + "/?" + url_strParam.slice(1);
}
function formatSignString(reqMethod, endpoint, path, strParam){
```

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```
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'])
```

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```
console.log("----------------------")
const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("----------------------")
console.log(req_url)
}
main()
```

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Responses

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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 s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

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- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.

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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.

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Anti-DDoS Pro Instance List APIs DescribeListBGPInstances

Last updated：2023-02-17 10:17:55

1. API Description

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

This API is used to get the list of Anti-DDoS Pro instances.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeListBGPInstances.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when `Limit = 0` . The maximum value is 100.
FilterIp	No	String	Filters by IP.
FilterInstanceId	No	String	Anti-DDoS instance ID filter. For example, `bgp-`

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			`00000001` .
FilterRegion	No	String	Filters by region. For example, `ap-guangzhou` .
FilterName	No	String	Filters by name.
FilterLine	No	Integer	Line filter. Valid values: 1: BGP; 2: Non-BGP.
FilterStatus	No	String	Filters by instance status. `idle` : Running; `attacking` : Being attacked; `blocking` : Being blocked.
FilterBoundStatus	No	String	Filters by binding status. `bounding` : The instance is bound; `failed` : The binding failed.
FilterInstanceIdList.N	No	Array of String	Array of instance IDs
FilterEnterpriseFlag	No	Integer	Enterprise edition. Values: `1` (the Convoy package included), `2` (the Convoy package not included)
FilterLightFlag	No	Integer	Whether it's a Lighthouse edition
FilterChannelFlag	No	Integer	Whether it's a Channel edition
FilterTag	No	TagFilter	Filters by tag
FilterTrialFlag	No	Integer	Filters out trial instances. Values: `1` (emergency protection instances), `2` (PLG instances)
FilterConvoy	No	Integer	Filters out Convoy instances
ExcludeAdvancedInfo	No	Boolean	Whether to exclude the advanced information (such as `InstanceList[0].Usage`). Values: `true` (exclude), `false` (do not exclude). The default value is `false` .

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of Anti-DDoS Pro instances
InstanceList	Array of	List of Anti-DDoS Pro instances

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

4. Example

Example1 Getting the list of Anti-DDoS Pro instances

Getting the list of Anti-DDoS Pro instances

Input Example

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

{
"Limit": "1",
"Offset": "0",
"FilterInstanceId": "bgp-00000001",
"FilterIp": "1.1.1.1"
}
```

Output Example

```
{
"Response": {
"InstanceList": [
{
"BoundStatus": "idle",
"CCEnable": 0,
"CreatedTime": "2022-12-08 18:55:54",
"DDoSLevel": "high",
"EipProductInfos": [],
"ElasticServiceBandwidth": 0,
"ExpiredTime": "2023-12-08 18:55:54",
"InstanceDetail": {
"EipList": [],
"InstanceId": "bgp-00000001"
},
"IpCountNewFlag": 0,
```

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```
"Line": 1,
"Name": "zbhh",
"PackInfo": {
"PackId": "zbhh-00000001",
"PackType": "zbhh"
},
"Region": {
"Region": "ap-hongkong"
},
"SpecificationLimit": {
"AutoRenewFlag": 0,
"BattleEditionFlag": 0,
"ChannelEditionFlag": 0,
"ElasticLimit": 0,
"EnterpriseFlag": 1,
"ProtectBandwidth": 560000,
"ProtectCountLimit": 999999999,
"ProtectIPNumberLimit": 10,
"ServiceBandWidth": 150,
"UnionPackFlag": 0
},
"Status": "idle",
"TagInfoList": [
{
"TagKey": "xxx",
"TagValue": "test"
}
],
"Usage": {
"Last7DayAttackCount": 0,
"ProtectCountUsage": 999999999,
"ProtectIPNumberUsage": 0
},
"VitalityVersion": 0
}
],
"RequestId": "0381c271-292d-4e2a-adcc-cd7bcd6977a7",
"Total": 53
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.

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Anti-DDoS Advanced Instance APIs DisassociateDDoSEipAddress

Last updated：2023-02-17 10:18:09

1. API Description

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

This API is used to unbind an Anti-DDoS EIP.

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: DisassociateDDoSEipAddress.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID (only Anti-DDoS Advanced). For example, `bgpip-0000011x` .
Eip	Yes	String	EIP of the Anti-DDoS instance ID

3. Output Parameters

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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 Unbinding EIPs

Input Example

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

{
"InstanceId": "bgpip-0000011x",
"Eip": "1.1.1.1"
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
RequestLimitExceeded	The number of requests should not exceed the frequency limit.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.

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UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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AssociateDDoSEipAddress

Last updated：2023-02-17 10:18:10

1. API Description

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

This API is used to bind an EIP to an Anti-DDoS Advanced instance or a specified private IP of an ENI.

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: AssociateDDoSEipAddress.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID (only Anti-DDoS Advanced). For example, `bgpip-0000011x` .
Eip	Yes	String	EIP of the Anti-DDoS instance ID
CvmInstanceID	Yes	String	Instance ID to bind. For example, `ins-11112222` . It can be queried in the console or obtained from `InstanceId` returned by `DescribeInstances` .
CvmRegion	Yes	String	Region of the CVM instance. For example, `ap-hongkong` .

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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 EIPs to Anti-DDoS Advanced instances

Input Example

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

{
"InstanceId": "bgpip-0000011x",
"Eip": "1.1.1.1",
"CvmInstanceID": "ins-11112222",
"CvmRegion": "ap-hongkong"
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
RequestLimitExceeded	The number of requests should not exceed the frequency limit.
ResourceInUse	The resource is occupied.

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ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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AssociateDDoSEipLoadBalancer

Last updated：2023-02-17 10:18:09

1. API Description

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

This API is used to bind an Anti-DDoS EIP to the specified private IP of a CLB 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: AssociateDDoSEipLoadBalancer.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID (only Anti-DDoS Advanced). For example, `bgpip-0000011x` .
Eip	Yes	String	EIP of the Anti-DDoS instance ID.
LoadBalancerID	Yes	String	ID of the CLB to bind, such as `lb-0000002i` . It can be queried in the console or obtained from `LoadBalancerId` returned by the `DescribeLoadBalancers` API.
LoadBalancerRegion	Yes	String	Region of the CLB instance, such as `ap-hongkong` .
Vip	No	String	CLB private IP

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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 an Anti-DDoS EIPs to a CLB instance

Input Example

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

{
"InstanceId": "bgpip-0000011x",
"Eip": "1.1.1.1",
"Vip": "1.1.1.1",
"LoadBalancerRegion": "ap-hongkong",
"LoadBalancerID": "lb-0000002i"
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
RequestLimitExceeded	The number of requests should not exceed the frequency limit.

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ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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Protection Configuration APIs ModifyPacketFilterConfig

Last updated：2023-02-17 10:17:57

1. API Description

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

This API is used to modify Anti-DDoS feature filtering 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: ModifyPacketFilterConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
PacketFilterConfig	Yes	PacketFilterConfig	Feature filtering configuration

3. Output Parameters

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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 Anti-DDoS feature filtering rules

Input Example

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

{
"InstanceId": "bgpip-00000001",
"PacketFilterConfig": {
"Action": "drop_rst",
"Depth": 4,
"Depth2": 4,
"DportEnd": 8101,
"DportStart": 8101,
"Id": "0176fm61",
"IsNot": 0,
"IsNot2": 0,
"MatchBegin": "begin_l4",
"MatchBegin2": "begin_l4",
"MatchLogic": "and",
"MatchType": "sunday",
"MatchType2": "pcre",
"Offset": 14,
"Offset2": 14,
"PktlenMax": 100,
"PktlenMin": 1,
"Protocol": "tcp",
"SportEnd": 65535,
"SportStart": 1,
"Str": "\\x3908",
"Str2": "\\xfaf0"
```

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```
}
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.

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ModifyDDoSSpeedLimitConfig

Last updated：2023-02-17 10:17:57

1. API Description

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

This API is used to modify Anti-DDoS access rate limit configurations.

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: ModifyDDoSSpeedLimitConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
DDoSSpeedLimitConfig	Yes	DDoSSpeedLimitConfig	Access rate limit configuration. The configuration ID cannot be empty when you set this parameter.

3. Output Parameters

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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 Anti-DDoS access rate limit configurations

ModifyDDoSSpeedLimitConfig

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=ModifyDDoSSpeedLimitConfig
&InstanceId=bgpip-0000011x
&DDoSSpeedLimitConfig.Id=00000001
&DDoSSpeedLimitConfig.Mode=1
&DDoSSpeedLimitConfig.ProtocolList=TCP;UDP
&DDoSSpeedLimitConfig.DstPortList=80;443;1000-2000
&DDoSSpeedLimitConfig.SpeedValues.0.Type=1
&DDoSSpeedLimitConfig.SpeedValues.0.Value=1000
&DDoSSpeedLimitConfig.SpeedValues.1.Type=2
&DDoSSpeedLimitConfig.SpeedValues.1.Value=30000000
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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
ResourceNotFound	The resource does not exist. Please try again later.

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ModifyDDoSGeoIPBlockConfig

Last updated：2023-02-17 10:17:57

1. API Description

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

This API is used to modify Anti-DDoS region blocking configurations.

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: ModifyDDoSGeoIPBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
DDoSGeoIPBlockConfig	Yes	DDoSGeoIPBlockConfig	Region blocking configuration. The configuration ID cannot be empty when you set this parameter.

3. Output Parameters

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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 Anti-DDoS region blocking configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=ModifyDDoSGeoIPBlockConfig
&InstanceId=bgpip-0000011x
&DDoSGeoIPBlockConfig.Id=00000001
&DDoSGeoIPBlockConfig.RegionType=customized
&DDoSGeoIPBlockConfig.AreaList.0=100001
&DDoSGeoIPBlockConfig.AreaList.1=100002
&DDoSGeoIPBlockConfig.Action=drop
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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6. Error Code

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

Error Code	Description
ResourceNotFound	The resource does not exist. Please try again later.

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DescribeListWaterPrintConfig

Last updated：2023-02-17 10:17:58

1. API Description

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

This API is used to get a list of Anti-DDoS watermark configurations.

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: DescribeListWaterPrintConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when `Limit = 0` . The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of WaterPrintRelation	List of watermark configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS watermark configurations

Input Example

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

{
"FilterInstanceId": "bgpip-0000011x",
"FilterIp": "1.1.1.1",
"Limit": "25",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Total": 1,
"ConfigList": [
{
"WaterPrintConfig": {
"Keys": [
```

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```
{
"KeyVersion": "fbf1",
"KeyContent": "82e352b956e8d512-fbf1-82e352b956e8d512eeb95315d5772e86fac99256",
"KeyId": "000005hj",
"KeyOpenStatus": 0,
"CreateTime": "2020-09-22 00:00:00"
}
],
"Verify": "checkall",
"Listeners": [
{
"ForwardProtocol": "TCP",
"FrontendPort": 80,
"FrontendPortEnd": 0
}
],
"OpenStatus": 0,
"Offset": 30
},
"InstanceDetailList": [
{
"InstanceId": "bgpip-0000011x",
"EipList": [
"1.1.1.1"
]
}
]
}
],
"RequestId": "c5ff0d5d-d2bd-4b34-b081-4acd4cf7be1f"
}
}
```


5. Developer Resources

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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DescribeListProtocolBlockConfig

Last updated：2023-02-17 10:17:58

1. API Description

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

This API is used to get a list of Anti-DDoS protocol blocking configurations.

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: DescribeListProtocolBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when `Limit = 0` . The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of ProtocolBlockRelation	Protocol blocking configuration
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS protocol blocking configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeListProtocolBlockConfig
&Offset=0
&Limit=25
&FilterIp=1.1.1.1
&FilterInstanceId=bgpip-0000011x
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "70a4b0a9-4dc9-4a29-ae47-ce1c498b176a",
"ConfigList": [
{
"ProtocolBlockConfig": {
"DropTcp": 0,
"DropUdp": 0,
"DropIcmp": 0,
"DropOther": 0,
"CheckExceptNullConnect": 0
},
"InstanceDetailList": [
```

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```
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011x"
}
]
}
],
"Total": 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

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

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DescribeListProtectThresholdConfig

Last updated：2023-02-17 10:17:58

1. API Description

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

This API is used to get a list of protection threshold configurations for AI protection switch, protection level, and CC threshold switch.

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: DescribeListProtectThresholdConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when `Limit = 0` . The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .

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FilterIp	No	String	IP filter
FilterDomain	No	String	Domain name filter for querying CC protection thresholds of domain names and protocols
FilterProtocol	No	String	Protocol filter for querying CC protection thresholds of domain names and protocols

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of ProtectThresholdRelation	List of protection threshold configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of protection threshold configurations

Input Example

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

{
"FilterInstanceId": "bgpip-0000011x",
"FilterIp": "1.1.1.1",
"Limit": "25",
"Offset": "0"
}
```

Output Example

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```
{
"Response": {
"Total": 1,
"ConfigList": [
{
"DDoSThreshold": 1,
"RstFloodPktThreshold": 1,
"SynAckFloodThreshold": 1,
"DDoSAI": "om",
"CCEnable": 1,
"ListenerCcThresholdList": [
{
"CCThreshold": 0,
"Domain": "*.examw.com",
"Protocol": "http",
"CCEnable": 0
}
],
"AckFloodThreshold": 1,
"SynFloodThreshold": 1,
"InstanceDetailList": [
{
"InstanceId": "bgpip-0000011x",
"EipList": [
"1.1.1.1"
]
}
],
"CCThreshold": 1,
"UdpFloodPktThreshold": 1,
"AckFloodPktThreshold": 1,
"UdpFloodThreshold": 1,
"SynAckFloodPktThreshold": 1,
"RstFloodThreshold": 1,
"DDoSLevel": "middle",
"SynFloodPktThreshold": 1
}
],
"RequestId": "f56cc9dc-29d9-4594-b12d-22239c7bc888"
}
}
```


5. Developer Resources

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SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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DescribeListPacketFilterConfig

Last updated：2023-02-17 10:17:59

1. API Description

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

This API is used to get a list of Anti-DDoS feature filtering 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: DescribeListPacketFilterConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when Limit = 0. The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of PacketFilterRelation	Feature filtering configuration
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS feature filtering rules

Input Example

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

{
"FilterInstanceId": "bgpip-0000011x",
"FilterIp": "1.1.1.1",
"Limit": "25",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Total": 1,
"ConfigList": [
{
"InstanceDetailList": [
{
```

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```
"InstanceId": "bgpip-0000011x",
"EipList": [
"1.1.1.1"
]
}
],
"PacketFilterConfig": {
"MatchType2": "sunday",
"MatchBegin2": "begin-l5",
"Str2": "",
"SportEnd": 0,
"IsNot": 0,
"PktlenMax": 1500,
"MatchLogic": "none",
"MatchBegin": "begin-l5",
"Offset": 0,
"SportStart": 0,
"DportStart": 0,
"PktlenMin": 0,
"IsNot2": 0,
"Depth": 20,
"Str": "",
"Action": "drop",
"Protocol": "tcp",
"MatchType": "sunday",
"DportEnd": 0,
"Offset2": 5,
"Depth2": 20,
"Id": ""
},
"ModifyTime": "2022-01-29 17:47:48"
}
],
"RequestId": "3eb91f01-96dd-4ad3-9e16-edde46b8cf40"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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DescribeListDDoSSpeedLimitConfig

Last updated：2023-02-17 10:17:59

1. API Description

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

This API is used to get a list of Anti-DDoS access rate limit configurations.

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: DescribeListDDoSSpeedLimitConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when Limit = 0. The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of DDoSSpeedLimitConfigRelation	List of access rate limit configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS access rate limit configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeListDDoSSpeedLimitConfig
&Offset=0
&Limit=25
&FilterIp=1.1.1.1
&FilterInstanceId=bgpip-*
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "bcfa39ae-5b8b-4b5b-9e53-016176e54b59",
"ConfigList": [
{
"SpeedLimitConfig": {
"Mode": 1,
"DstPortList": "0-65535",
"ProtocolList": "ALL",
"SpeedValues": [
{
"Type": 1,
"Value": 1200
```

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```
}
],
"Id": "00000001"
},
"InstanceDetailList": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011x"
}
]
}
],
"Total": 1
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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DescribeListDDoSGeoIPBlockConfig

Last updated：2023-02-17 10:17:59

1. API Description

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

This API is used to get a list of Anti-DDoS region blocking configurations.

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: DescribeListDDoSGeoIPBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when Limit = 0. The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of DDoSGeoIPBlockConfigRelation	List of Anti-DDoS region blocking configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS region blocking configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeListDDoSGeoIPBlockConfig
&Offset=0
&Limit=25
&FilterIp=1.1.1.1
&FilterInstanceId=bgpip-*
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "bcfa39ae-5b8b-4b5b-9e53-016176e54b59",
"ConfigList": [
{
"GeoIPBlockConfig": {
"RegionType": "customized",
"AreaList": [
100001,
100002
],
"Action": "drop",
"Id": "00000001"
```

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```
},
"InstanceDetailList": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011x"
}
]
}
],
"Total": 1
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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DescribeListDDoSAI

Last updated：2023-02-17 10:17:59

1. API Description

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

This API is used to get a list of Anti-DDoS AI protection switches.

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: DescribeListDDoSAI.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when Limit = 0. The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of DDoSAIRelation	List of AI protection switches
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS AI protection switches

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeListDDoSAI
&Offset=0
&Limit=25
&FilterIp=1.1.1.1
&FilterInstanceId=bgpip-0000011x
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "c8c3f585-dd94-4d99-b877-f2c612445630",
"ConfigList": [
{
"DDoSAI": "off",
"InstanceDetailList": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011y"
}
```

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```
]
}
],
"Total": 1
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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DescribeListBlackWhiteIpList

Last updated：2023-02-17 10:18:00

1. API Description

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

This API is used to get a list of Anti-DDoS IP blocklists/allowlists.

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: DescribeListBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when Limit = 0. The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .
FilterIp	No	String	IP filter

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
IpList	Array of BlackWhiteIpRelation	IP blocklist/allowlist
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the Anti-DDoS IP blocklist/allowlist

Input Example

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

{
"FilterInstanceId": "bgpip-0000011x",
"FilterIp": "1.1.1.1",
"Limit": "25",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"IpList": [
{
"InstanceDetailList": [
{
"InstanceId": "bgpip-0000011x",
```

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```
"EipList": [
"1.2.2.19"
]
}
],
"Ip": "1.1.4.1",
"Type": "white",
"Mask": 1,
"ModifyTime": "2022-11-29 18:34:13"
}
],
"Total": 1,
"RequestId": "j5RV4a5576e8cf46f24e3bae026ebb391a"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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DescribeBlackWhiteIpList

Last updated：2023-02-17 10:18:00

1. API Description

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

This API is used to get an Anti-DDoS IP blocklist/allowlist.

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: DescribeBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID

3. Output Parameters

Parameter Name	Type	Description
BlackIpList	Array of	IP blocklist

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	String	
WhiteIpList	Array of String	IP allowlist
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting an Anti-DDoS IP blocklist/allowlist

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeBlackWhiteIpList
&InstanceId=bgpip-00001001
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "0f996729-bb5b-49da-89c3-8fc2a7400bd5",
"BlackIpList": [
"123.123.123.1"
],
"WhiteIpList": [
"123.123.123.2"
]
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.

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UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DeleteWaterPrintKey

Last updated：2023-02-17 10:18:01

1. API Description

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

This API is used to delete Anti-DDoS watermark keys.

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: DeleteWaterPrintKey.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
KeyId	Yes	String	Watermark key ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting Anti-DDoS watermark keys

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteWaterPrintKey
&InstanceId=bgpip-0000011x
&KeyId=000000f8
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "512b8c34-3df9-448a-ae90-c28643d351bf"
}
}
```

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

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6. Error Code

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

Error Code	Description
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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DeleteWaterPrintConfig

Last updated：2023-02-17 10:18:01

1. API Description

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

This API is used to delete Anti-DDoS watermark configurations.

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: DeleteWaterPrintConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID

3. Output Parameters

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

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		locating a problem.

4. Example

Example1 Deleting Anti-DDoS watermark configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteWaterPrintConfig
&InstanceId=bgpip-0000011x
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "512b8c34-3df9-448a-ae90-c28643d351bf"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.

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DeletePacketFilterConfig

Last updated：2023-02-17 10:18:01

1. API Description

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

This API is used to delete Anti-DDoS feature filtering 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: DeletePacketFilterConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
PacketFilterConfig	Yes	PacketFilterConfig	Feature filtering configuration

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Deleting Anti-DDoS feature filtering rules

Input Example

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

{
"InstanceId": "bgpip-111111q1",
"PacketFilterConfig": {
"MatchType2": "",
"MatchBegin2": "no_match",
"Str2": "",
"SportEnd": 0,
"IsNot": 0,
"PktlenMax": 0,
"MatchLogic": "none",
"MatchBegin": "begin_l4",
"Offset": 0,
"SportStart": 0,
"DportStart": 0,
"PktlenMin": 0,
"IsNot2": 0,
"Depth": 0,
"Str": "\\x3908",
"Action": "drop",
"Protocol": "all",
"MatchType": "sunday",
"DportEnd": 0,
"Offset2": 0,
"Depth2": 0,
"Id": "01j9d4hi"
}
}
```

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Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.

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DeleteDDoSSpeedLimitConfig

Last updated：2023-02-17 10:18:02

1. API Description

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

This API is used to delete Anti-DDoS access rate limit configurations.

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: DeleteDDoSSpeedLimitConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
DDoSSpeedLimitConfig	Yes	DDoSSpeedLimitConfig	Access rate limit configuration. The configuration ID cannot be empty when you set this parameter.

3. Output Parameters

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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 Anti-DDoS access rate limit configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteDDoSSpeedLimitConfig
&InstanceId=bgpip-0000011x
&DDoSSpeedLimitConfig.Id=00000001
&DDoSSpeedLimitConfig.Mode=1
&DDoSSpeedLimitConfig.ProtocolList=TCP;UDP
&DDoSSpeedLimitConfig.DstPortList=80;443;1000-2000
&DDoSSpeedLimitConfig.SpeedValues.0.Type=1
&DDoSSpeedLimitConfig.SpeedValues.0.Value=1000
&DDoSSpeedLimitConfig.SpeedValues.1.Type=2
&DDoSSpeedLimitConfig.SpeedValues.1.Value=30000000
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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- 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
ResourceNotFound	The resource does not exist. Please try again later.

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DeleteDDoSGeoIPBlockConfig

Last updated：2023-02-17 10:18:02

1. API Description

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

This API is used to delete Anti-DDoS region blocking configurations.

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: DeleteDDoSGeoIPBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
DDoSGeoIPBlockConfig	Yes	DDoSGeoIPBlockConfig	Region blocking configuration. The configuration ID cannot be empty when you set this parameter.

3. Output Parameters

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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 Anti-DDoS region blocking configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteDDoSGeoIPBlockConfig
&InstanceId=bgpip-0000011x
&DDoSGeoIPBlockConfig.Id=00000001
&DDoSGeoIPBlockConfig.RegionType=customized
&DDoSGeoIPBlockConfig.AreaList.0=100001
&DDoSGeoIPBlockConfig.AreaList.1=100002
&DDoSGeoIPBlockConfig.Action=drop
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
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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
ResourceNotFound	The resource does not exist. Please try again later.

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DeleteBlackWhiteIpList

Last updated：2022-04-14 14:41:14

1. API Description

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

This API is used to delete an Anti-DDoS IP blocklist/allowlist.

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: DeleteBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
IpList.N	Yes	Array of String	List of IPs
Type	Yes	String	IP type. Valid values: `black` (blocklisted IP), `white` (allowlisted IP).

3. Output Parameters

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

4. Example

Example1 Deleting an Anti-DDoS IP blocklist/allowlist

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteBlackWhiteIpList
&InstanceId=bgpip-00001001
&IpList.0=1.1.1.1
&Type=black
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b7739a1e-837d-4248-bf9f-16a9bf77db22"
}
}
```

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
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.

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CreateWaterPrintKey

Last updated：2023-02-17 10:18:03

1. API Description

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

This API is used to add Anti-DDoS watermark keys.

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: CreateWaterPrintKey.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID

3. Output Parameters

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

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		locating a problem.

4. Example

Example1 Adding Anti-DDoS watermark keys

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateWaterPrintKey
&InstanceId=bgpip-0000011x
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "512b8c34-3df9-448a-ae90-c28643d351bf"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
LimitExceeded	The quota limit should not be exceeded.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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CreateWaterPrintConfig

Last updated：2023-02-17 10:18:03

1. API Description

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

This API is used to add Anti-DDoS watermark configurations.

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: CreateWaterPrintConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
WaterPrintConfig	Yes	WaterPrintConfig	Watermark configuration

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Adding Anti-DDoS watermark configurations

Input Example

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

{
"InstanceId": "bgp-111111aj",
"WaterPrintConfig": {
"Keys": [
{
"KeyVersion": "fbf1",
"KeyContent": "82e352b956e8d512-fbf1-82e352b956e8d512eeb95315d5772e86fac99256",
"KeyId": "000005hj",
"KeyOpenStatus": 0,
"CreateTime": "2020-09-22 00:00:00"
}
],
"Verify": "checkall",
"Listeners": [
{
"ForwardProtocol": "TCP",
"FrontendPort": 88,
"FrontendPortEnd": 88
}
],
"OpenStatus": 0,
"Offset": 5
}
}
```

Output Example

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```
{
"Response": {
"RequestId": "512b8c34-3df9-448a-ae90-c28643d351bf"
}
}
```

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
LimitExceeded	The quota limit should not be exceeded.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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CreateProtocolBlockConfig

Last updated：2023-02-17 10:18:03

1. API Description

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

This API is used to set Anti-DDoS protocol blocking configurations.

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: CreateProtocolBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
ProtocolBlockConfig	Yes	ProtocolBlockConfig	Protocol blocking configuration

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Setting Anti-DDoS protocol blocking configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateProtocolBlockConfig
&InstanceId=bgpip-0000011x
&ProtocolBlockConfig.DropTcp=1
&ProtocolBlockConfig.DropUdp=1
&ProtocolBlockConfig.DropIcmp=1
&ProtocolBlockConfig.DropOther=1
&ProtocolBlockConfig.CheckExceptNullConnect=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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CreatePacketFilterConfig

Last updated：2023-02-17 10:18:03

1. API Description

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

This API is used to add Anti-DDoS feature filtering 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: CreatePacketFilterConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
PacketFilterConfig	Yes	PacketFilterConfig	Feature filtering rules

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Adding Anti-DDoS feature filtering rules

Input Example

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

{
"InstanceId": "bgpip-000002q2",
"PacketFilterConfig": {
"Action": "drop_rst",
"Depth": 4,
"DportEnd": 18373,
"DportStart": 18373,
"IsNot": 0,
"MatchBegin": "begin_l4",
"MatchType": "sunday",
"Offset": 14,
"PktlenMax": 100,
"PktlenMin": 1,
"Protocol": "tcp",
"SportEnd": 65535,
"SportStart": 1,
"Str": "\\x05ac"
}
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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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
LimitExceeded	The quota limit should not be exceeded.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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CreateDDoSSpeedLimitConfig

Last updated：2023-02-17 10:18:04

1. API Description

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

This API is used to add Anti-DDoS access rate limit configurations.

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: CreateDDoSSpeedLimitConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
DDoSSpeedLimitConfig	Yes	DDoSSpeedLimitConfig	Access rate limit configuration. The configuration ID should be cleared when you set this parameter.

3. Output Parameters

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

4. Example

Example1 Adding Anti-DDoS access rate limit configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateDDoSSpeedLimitConfig
&InstanceId=bgpip-0000011x
&DDoSSpeedLimitConfig.Mode=1
&DDoSSpeedLimitConfig.ProtocolList=TCP;UDP
&DDoSSpeedLimitConfig.DstPortList=80;443;1000-2000
&DDoSSpeedLimitConfig.SpeedValues.0.Type=1
&DDoSSpeedLimitConfig.SpeedValues.0.Value=1000
&DDoSSpeedLimitConfig.SpeedValues.1.Type=2
&DDoSSpeedLimitConfig.SpeedValues.1.Value=30000000
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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 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
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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CreateDDoSGeoIPBlockConfig

Last updated：2023-02-17 10:18:04

1. API Description

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

This API is used to add an Anti-DDoS region blocking configuration.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateDDoSGeoIPBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
DDoSGeoIPBlockConfig	Yes	DDoSGeoIPBlockConfig	Region blocking configuration. The configuration ID should be cleared when you set this parameter.

3. Output Parameters

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

4. Example

Example1 Adding Anti-DDoS region blocking configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateDDoSGeoIPBlockConfig
&InstanceId=bgpip-0000011x
&DDoSGeoIPBlockConfig.RegionType=customized
&DDoSGeoIPBlockConfig.AreaList.0=100001
&DDoSGeoIPBlockConfig.AreaList.1=100002
&DDoSGeoIPBlockConfig.Action=drop
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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CreateDDoSAI

Last updated：2023-02-17 10:18:04

1. API Description

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

This API is used to set Anti-DDoS AI protection switches.

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: CreateDDoSAI.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceIdList.N	Yes	Array of String	List of Anti-DDoS instance IDs
DDoSAI	Yes	String	AI protection switch. Valid values: `on` : enabled `off` : disabled]

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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 Setting Anti-DDoS AI protection switches

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateDDoSAI
&DDoSAI=on
&InstanceIdList.0=bgpip-0000011x
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "01729f06-522c-4e97-9443-fb5492ab5dbf"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
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- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.

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CreateBlackWhiteIpList

Last updated：2023-02-17 10:18:05

1. API Description

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

This API is used to add an Anti-DDoS IP blocklist/allowlist.

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: CreateBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
IpList.N	Yes	Array of String	List of IPs
Type	Yes	String	IP type. Valid values: `black` (blocklisted IP), `white` (allowlisted IP).

3. Output Parameters

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

4. Example

Example1 Adding an Anti-DDoS IP blocklist/allowlist

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateBlackWhiteIpList
&InstanceId=bgpip-00001001
&IpList.0=1.1.1.1
&Type=black
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b7739a1e-837d-4248-bf9f-16a9bf77db22"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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SwitchWaterPrintConfig

Last updated：2023-02-17 10:17:57

1. API Description

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

This API is used to enable or disable Anti-DDoS watermark configurations.

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: SwitchWaterPrintConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Anti-DDoS instance ID
OpenStatus	Yes	Integer	Watermark status. `1` : enabled; `0` : disabled.
CloudSdkProxy	No	Integer	Whether to enable proxy. Values: `1` (Enable proxy and ignore IP+port verification), `0` (Do not enable proxy and IP+port verification is required)

3. Output Parameters

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

4. Example

Example1 Enabling Anti-DDoS watermark

Input Example

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

{
"InstanceId": "bgpip-0000011x",
"OpenStatus": "1"
}
```

Output Example

```
{
"Response": {
"RequestId": "512b8c34-3df9-448a-ae90-c28643d351bf"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
InternalError	Internal error. Please try again later.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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ModifyCcBlackWhiteIpList

Last updated：2023-02-17 10:17:58

1. API Description

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

This API is used to modify a layer-4 access control 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: ModifyCcBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
IpList.N	Yes	Array of IpSegment	List of IPs
Type	Yes	String	IP type. Valid values: `black` (blocklisted IP), `white` (allowlisted IP).
PolicyId	Yes	String	Policy ID

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3. Output Parameters

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

4. Example

Example1 Modifying a layer-4 access control list

Input Example

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

{
"InstanceId": "bgpip-111111q1",
"IpList": [
{
"Ip": "1.1.1.1",
"Mask": 1
}
],
"Type": "black",
"PolicyId": "ccBlackWhite-00000312"
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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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
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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DescribeCcGeoIPBlockConfigList

Last updated：2023-02-17 10:18:00

1. API Description

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

This API is used to obtain a list of regional blocking configurations.

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: DescribeCcGeoIPBlockConfigList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type. Valid values: `bgpip-multip` (Anti-DDoS Pro) and `bgpip` (Anti-DDoS Advanced).
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of results returned in one page
InstanceId	No	String	Instance ID
Ip	No	String	IP address, which is required when an Anti-DDoS Advanced instance is

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			used.
Domain	No	String	Domain name, which is required when an Anti-DDoS Advanced instance is used.
Protocol	No	String	Protocol, which is required when an Anti-DDoS Advanced instance is used.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Number of policy lists
CcGeoIpPolicyList	Array of CcGeoIpPolicyNew	Information of the policy list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining a list of regional blocking configurations

Input Example

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

{
"Domain": "test.dayu.com",
"Protocol": "http",
"Business": "bgpip",
"InstanceId": "bgpip-111111q1",
"Ip": "1.1.1.1",
"Limit": 1,
"Offset": 1
}
```

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Output Example


```
{
"Response": {
"CcGeoIpPolicyList": [
{
"Domain": "test.dayu.com",
"Protocol": "http",
"InstanceId": "bgpip-111111q1",
"Ip": "1.1.1.1",
"RegionType": "china",
"PolicyId": "rule-0000011x",
"ModifyTime": "2020-09-22 00:00:00",
"Action": "1",
"CreateTime": "2020-09-22 00:00:00",
"AreaList": [
1
]
}
],
"Total": 1,
"RequestId": "c9520936-381c-4c04-b535-c8f4df1f8059"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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DescribeCcBlackWhiteIpList

Last updated：2023-02-17 10:18:00

1. API Description

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

This API is used to obtain the layer-4 access control 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: DescribeCcBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type. Valid values: `bgpip-multip` (Anti-DDoS Pro) and `bgpip` (Anti-DDoS Advanced).
InstanceId	Yes	String	Instance ID
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of results returned in one page
Ip	No	String	IP address, which is required when an Anti-DDoS Advanced instance is

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			used.
Domain	No	String	Domain name, which is required when an Anti-DDoS Advanced instance is used.
Protocol	No	String	Protocol, which is required when an Anti-DDoS Advanced instance is used.
FilterIp	No	String	Specifies a blocklist/allowlist IP.
FilterType	No	String	Specifies whether is an IP blocklist or IP allowlist.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Number of policy lists
CcBlackWhiteIpList	Array of CcBlackWhiteIpPolicy	Information of the policy list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining a layer-4 access control list

Input Example

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

{
"Domain": "www.test1.com",
"Protocol": "https",
"Business": "bgpip",
"InstanceId": "bgpip-000000z9",
"Ip": "1.1.1.1",
"Limit": 1,
```

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```
"Offset": 1
}
```

Output Example

```
{
"Response": {
"Total": 1,
"CcBlackWhiteIpList": [
{
"Domain": "www.test1.com",
"BlackWhiteIp": "2.2.2.2",
"Protocol": "https",
"InstanceId": "bgpip-000004z9",
"Ip": "1.1.1.1",
"Mask": 1,
"PolicyId": "ccBlackWhite-000002s7",
"ModifyTime": "2022-04-30 08:09:20",
"Type": "white",
"CreateTime": "2022-04-30 07:09:20"
}
],
"RequestId": "1be9f39c-7060-11ed-aae2-525400f921f0"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
LimitExceeded	The quota limit should not be exceeded.
ResourceUnavailable	The resource is unavailable.
UnsupportedOperation	Unsupported operation.

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DeleteCcGeoIPBlockConfig

Last updated：2023-02-17 10:18:02

1. API Description

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

This API is used to delete a regional blocking configuration.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteCcGeoIPBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
CcGeoIPBlockConfig	Yes	CcGeoIPBlockConfig	Region blocking configuration. The configuration ID cannot be empty when you set this parameter.

3. Output Parameters

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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 regional blocking configuration

Input Example

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

{
"InstanceId": "bgpip-000000q0",
"CcGeoIPBlockConfig": {
"Action": "drop",
"Id": "ccGeoip-000000mm",
"RegionType": "china",
"AreaList": [
0
]
}
}
```

Output Example

```
{
"Response": {
"RequestId": "efc47bf5-b16a-410d-a993-0d4584446b6w"
}
}
```

5. Developer Resources

SDK

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- 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
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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DeleteCcBlackWhiteIpList

Last updated：2023-02-17 10:18:02

1. API Description

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

This API is used to delete a layer-4 access control 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: DeleteCcBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
PolicyId	Yes	String	Policy ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting a layer-4 access control list

Input Example

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

{
"InstanceId": "bgpip-111111qq",
"PolicyId": "ccBlackWhite-000000s0"
}
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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

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- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

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6. Error Code

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

Error Code	Description
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
UnsupportedOperation	Unsupported operation.

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CreateCcGeoIPBlockConfig

Last updated：2023-02-17 10:18:04

1. API Description

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

This API is used to create a regional blocking configuration.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateCcGeoIPBlockConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
IP	Yes	String	IP address
Domain	Yes	String	Domain name
Protocol	Yes	String	Protocol type
CcGeoIPBlockConfig	Yes	CcGeoIPBlockConfig	CC regional blocking configuration

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3. Output Parameters

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

4. Example

Example1 Adding regional blocking configuration

Input Example

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

{
"InstanceId": "bgpip-0000011x",
"IP": "1.1.1.1",
"Domain": "www.test.com",
"Protocol": "http",
"CcGeoIPBlockConfig": {
"Action": "drop",
"Id": "0",
"RegionType": "oversea",
"AreaList": [
100025
]
}
}
```

Output Example

```
{
"Response": {
"RequestId": "54a41bf4-dca0-438b-a1cd-eb1f99e9a6b3"
}
}
```

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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
LimitExceeded	The quota limit should not be exceeded.
UnsupportedOperation	Unsupported operation.

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CreateCcBlackWhiteIpList

Last updated：2023-02-17 10:18:05

1. API Description

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

This API is used to create a layer 4 access control list to prevent CC attacks.

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: CreateCcBlackWhiteIpList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
IpList.N	Yes	Array of IpSegment	List of IPs
Type	Yes	String	IP permission. Valid values: `black` (blocked IP), `white` (allowed IP).
Ip	Yes	String	IP address
Domain	Yes	String	Domain name

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Protocol	Yes	String	Protocol

3. Output Parameters

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

4. Example

Example1 Creating a layer 4 access control list to prevent CC attacks

Input Example

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

{
"Domain": "www.test.com",
"Protocol": "http",
"InstanceId": "bgpip-00001001",
"Ip": "1.1.1.1",
"IpList": [
{
"Ip": "1.1.1.0",
"Mask": 24
}
],
"Type": "black"
}
```

Output Example

```
{
"Response": {
"RequestId": "b7739a1e-837d-4248-bf9f-16a9bf77db22"
```

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```
}
}
```

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
LimitExceeded	The quota limit should not be exceeded.
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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Intelligent Scheduling APIs
ModifyDomainUsrName

Last updated：2023-02-17 10:18:08

1. API Description

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

This API is used to modify intelligent scheduling 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: ModifyDomainUsrName.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
DomainName	Yes	String	User CNAME
DomainUserName	Yes	String	Domain name

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Modifying intelligent scheduling domain names

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=ModifyDomainUsrName
&DomainName=test.com
&DomainUserName=test
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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- Tencent Cloud CLI 3.0

6. Error Code

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

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DescribeListSchedulingDomain

Last updated：2023-02-17 10:18:08

1. API Description

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

This API is used to get a list of intelligent scheduling 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: DescribeListSchedulingDomain.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when `Limit = 0` . The maximum value is 100.
FilterDomain	No	String	Scheduling domain name filter

3. Output Parameters

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Parameter Name	Type	Description
Total	Integer	Total number of lists
DomainList	Array of SchedulingDomainInfo	List of scheduling domain names
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of intelligent scheduling domain names

Input Example

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

{
"Limit": 1,
"FilterDomain": "www.test.com",
"Offset": 1
}
```

Output Example

```
{
"Response": {
"Total": 1,
"RequestId": "0506d138-ef0f-4ff4-83b0-f1d85e740afd",
"DomainList": [
{
"Status": 1,
"Domain": "www.test.com",
"ModifyTime": "2020-09-22 00:00:00",
"TTL": 1,
"CreatedTime": "2020-09-22 00:00:00",
"UsrDomainName": "www.test.com",
"LineIPList": [
```

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```
{
"Eip": "1.1.1.1",
"Type": "bgp"
}
],
"Method": "priority"
}
]
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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CreateSchedulingDomain

Last updated：2023-02-17 10:18:08

1. API Description

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

This API is used to create a domain name for IP scheduling and switching.

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: CreateSchedulingDomain.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Product	No	String	Indicates whether a hybrid cloud product is used. `hybrid` : Anti-DDoS Service Platform For other products, leave this field empty.

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Creating a domain name for scheduling

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateSchedulingDomain
&Product=hybrid
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"Domain": "test123.anever.cn"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.

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Alarm Notification APIs DescribeListIPAlarmConfig

Last updated：2023-02-17 10:18:10

1. API Description

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

This API is used to get a list of IP alarm threshold configurations.

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: DescribeListIPAlarmConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when Limit = 0. The maximum value is 100.
FilterInstanceId	Yes	String	Anti-DDoS instance ID filter. Anti-DDoS instance prefix wildcard search is supported. For example, you can filter Anti-DDoS Pro instances by `bgp-*` .

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FilterAlarmType	Yes	Integer	Alarm threshold type filter. Valid values: `1` : alarm threshold for inbound traffic `2` : alarm threshold for cleansing attack traffic]
FilterIp	No	String	IP filter
FilterCname	No	String	CNAME of the Anti-DDoS Advanced instance

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
ConfigList	Array of IPAlarmThresholdRelation	List of IP alarm threshold configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of IP alarm threshold configurations

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeListIPAlarmConfig
&Offset=0
&Limit=25
&FilterIp=1.1.1.1
&FilterInstanceId=bgpip-0000011x
&FilterAlarmType=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "a3056c16-1cb6-4bdb-9d3b-a2361fe5b63c",
```

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```
"ConfigList": [
{
"AlarmType": 2,
"AlarmThreshold": 2000,
"InstanceDetailList": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011x"
}
]
},
{
"AlarmType": 1,
"AlarmThreshold": 5000,
"InstanceDetailList": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011x"
}
]
}
],
"Total": 2
}
}
```


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

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

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DescribeDefaultAlarmThreshold

Last updated：2023-02-17 10:18:10

1. API Description

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

This API is used to get the default alarm threshold of an IP.

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: DescribeDefaultAlarmThreshold.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceType	Yes	String	Product category. Valid values: `bgp` : Anti-DDoS Pro `bgpip` : Anti-DDoS Advanced]
FilterAlarmType	Yes	Integer	Alarm threshold type filter. Valid values: `1` : alarm threshold for inbound traffic `2` : alarm threshold for cleansing attack traffic]

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3. Output Parameters

Parameter Name	Type	Description
DefaultAlarmConfigList	Array of DefaultAlarmThreshold	Default alarm threshold configuration
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the default alarm threshold of an IP

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeDefaultAlarmThreshold
&InstanceType=bgp
&FilterAlarmType=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "a7df6626-fb01-4c9e-b43a-7af1db3fe998",
"DefaultAlarmConfigList": [
{
"AlarmType": 1,
"AlarmThreshold": 1000
}
]
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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CreateIPAlarmThresholdConfig

Last updated：2023-02-17 10:18:10

1. API Description

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

This API is used to set the default alarm threshold of an IP.

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: CreateIPAlarmThresholdConfig.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
IpAlarmThresholdConfigList.N	Yes	Array of IPAlarmThresholdRelation	List of IP alarm threshold configurations

3. Output Parameters

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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 Setting IP alarm threshold configuration

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateIPAlarmThresholdConfig
&IpAlarmThresholdConfigList.0.AlarmType=1
&IpAlarmThresholdConfigList.0.AlarmThreshold=1000
&IpAlarmThresholdConfigList.0.InstanceDetailList.0.EipList.0=1.1.1.1
&IpAlarmThresholdConfigList.0.InstanceDetailList.0.InstanceId=bgpip-0000011x
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
ResourceInUse	The resource is occupied.

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CreateDefaultAlarmThreshold

Last updated：2023-02-17 10:18:11

1. API Description

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

This API is used to set the default alarm threshold of an IP.

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: CreateDefaultAlarmThreshold.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
DefaultAlarmConfig	Yes	DefaultAlarmThreshold	Default alarm threshold configuration
InstanceType	Yes	String	Product category. Valid values: `bgp` : Anti-DDoS Pro `bgpip` : Anti-DDoS Advanced]

3. Output Parameters

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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 Setting the default alarm threshold of an IP

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateDefaultAlarmThreshold
&InstanceType=bgp
&DefaultAlarmConfig.AlarmType=1
&DefaultAlarmConfig.AlarmThreshold=2000
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "b7739a1e-837d-4248-bf9f-16a9bf77db22"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for NodeJS
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Command Line Interface

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6. Error Code

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

Error Code	Description
ResourceInUse	The resource is occupied.

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Resource List APIs
DescribeListBGPIPInstances

Last updated：2023-02-17 10:17:56

1. API Description

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

This API is used to get a list of Anti-DDoS Advanced instances.

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

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeListBGPIPInstances.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of items per page. The default value is 20 when `Limit = 0`. The maximum value is 100.
FilterIp	No	String	IP filter

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FilterInstanceId	No	String	Anti-DDoS instance ID filter. For example, you can filter the Anti-DDoS Advanced instance ID by `bgpip-00000001` .
FilterLine	No	Integer	Anti-DDoS Advanced line filter. Valid values: `1` : BGP line `2` : China Telecom `3` : China Unicom `4` : China Mobile `99` : third-party line]
FilterRegion	No	String	Region filter. For example, `ap-guangzhou` .
FilterName	No	String	Name filter
FilterEipType	No	Integer	Whether to obtain only Anti-DDoS EIP instances. `1` : Yes; `0` : No.
FilterEipEipAddressStatus.N	No	Array of String	Anti-DDoS Advanced instance binding status filter. Valid values: `BINDING` , `BIND` , `UNBINDING` , `UNBIND` . This filter is only valid when `FilterEipType = 1` .
FilterDamDDoSStatus	No	Integer	Whether to obtain only Anti-DDoS instances with Sec-MCA enabled. Valid values: `1` (only obtain Anti-DDoS instances with Sec-MCA enabled) and `0` (obtain other Anti-DDoS instances).
FilterStatus	No	String	Filters by the status of bound resources. Values: `idle` (normal), `attacking` (being attacked), `blocking` (being blocked), `trial` (in trial)
FilterCname	No	String	Filters by the instance CNAME
FilterInstanceIdList.N	No	Array of String	Filters by the instance ID
FilterTag	No	TagFilter	Searches by tag
FilterPackType.N	No	Array of String	Filters by package type.
FilterConvoy	No	Integer	Filters out Convoy instances

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of lists
InstanceList	Array of BGPIPInstance	List of Anti-DDoS Advanced instances
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of Anti-DDoS Advanced instances

Input Example

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

{
"Limit": "1",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"RequestId": "0381c271-292d-4e2a-adcc-cd7bcd6977a7",
"InstanceList": [
{
"InstanceDetail": {
"EipList": [
"2402:4e00:31:804::17"
],
"InstanceId": "bgpip-00000001"
},
```

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```
"SpecificationLimit": {
"ProtectBandwidth": 30000,
"ProtectCCQPS": 40000,
"ElasticBandwidth": 50000,
"NormalBandwidth": 1000,
"ForwardRulesLimit": 60,
"AutoRenewFlag": 0,
"Line": 1
},
"Usage": {
"PortRulesUsage": 0,
"DomainRulesUsage": 0,
"Last7DayAttackCount": 0
},
"Region": {
"Region": "ap-shanghai"
},
"PackInfo": null,
"StaticPackRelation": null,
"EipAddressPackRelation": null,
"AnycastOutPackRelation": null,
"Tgw": 2,
"ZoneId": 0,
"Name": "",
"V6Flag": 1,
"Domain": "",
"Status": "idle",
"ExpiredTime": "2023-01-08 21:22:24",
"CreatedTime": "2022-12-08 21:22:24",
"EipAddressStatus": "",
"EipFlag": 0,
"EipAddressInfo": null,
"ConvoyId": "",
"DamDDoSStatus": 0,
"BGPIPChannelFlag": 0,
"TagInfoList": [],
"InstanceVersion": 3
}
],
"Total": 12
}
}
```


5. Developer Resources

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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.

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DescribeListListener

Last updated：2023-02-17 10:17:55

1. API Description

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

This API is used to get a list of forwarding 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: DescribeListListener.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
Layer4Listeners	Array of Layer4Rule	List of layer-4 forwarding listeners

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Layer7Listeners	Array of Layer7Rule	List of layer-7 forwarding listeners
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of forwarding listeners

Input Example

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

Output Example


```
{
"Response": {
"RequestId": "83ef9ee6-a46a-4aa7-b8aa-42c65637edad",
"Layer4Listeners": [
{
"BackendPort": 12,
"FrontendPort": 12,
"Protocol": "TCP",
"RealServers": [
{
"RealServer": "1.1.1.1",
"RsType": 2,
"Weight": 50
}
],
"InstanceDetails": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-0000011e"
}
]
}
],
"Layer7Listeners": [
{
```


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```
"Domain": "121.test.com",
"ProxyTypeList": [
{
"ProxyPorts": [
443
],
"ProxyType": "https"
}
],
"RealServers": [
{
"RealServer": "1.1.1.1",
"RsType": 2,
"Weight": 100
}
],
"InstanceDetails": [
{
"EipList": [
"1.1.1.1"
],
"InstanceId": "bgpip-000000y2"
}
]
}
]
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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DescribeL7RulesBySSLCertId

Last updated：2023-02-17 10:17:56

1. API Description

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

This API is used to query layer-7 rules matched with certificate IDs.

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: DescribeL7RulesBySSLCertId.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Status	Yes	String	Domain name status. Valid values: `bindable` , `binded` , `opened` , `closed` , `all` (all states).
CertIds.N	Yes	Array of String	List of certificate IDs

3. Output Parameters

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Parameter Name	Type	Description
CertSet	Array of CertIdInsL7Rules	Certificate rule set
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying domain name rules available to certificates

Input Example

```
POST / HTTP/1.1
Host: antiddos.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeL7RulesBySSLCertId
<Common request parameters>

{
"Status": "bindable",
"CertIds": [
"xxx"
]
}
```

Output Example

```
{
"Response": {
"CertSet": [
{
"CertId": "kneSCNrZ",
"L7Rules": [
{
"InsId": "bgpip-000001eo",
"AppId": "251008915",
"Protocol": "https",
"Domain": "www.xxx.com",
"VirtualPort": "443",
"SSLId": "",
"Status": 8
```

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```
}
]
}
],
"RequestId": "d87b0215-5dc6-4b99-ad82-704f0ef1bfb7"
}
}
```


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
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

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MissingParameter	Missing parameters. Please check and try again.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
UnsupportedOperation	Unsupported operation.

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DescribeNewL7Rules

Last updated：2023-02-17 10:17:55

1. API Description

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

This API is used to obtain layer-7 forwarding 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: DescribeNewL7Rules.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type (`bgpip` : Anti-DDoS Advanced)
StatusList.N	No	Array of Integer	(Optional) Searches by rule status. Valid values: `0` (Successfully configured), `1` (Being configured), `2` (Configuration failed), `3` (Being deleted), `5` (Deletion failed), `6` (awaiting configuration), `7` (awaiting deletion), and `8` (awaiting certificate configuration).
Domain	No	String	(Optional) Searches by domain name.
Ip	No	String	(Optional) Searches by IP.

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Limit	No	Integer	Number of items in a page. Returned results are not paged if you enter “0”.
Offset	No	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
ProtocolList.N	No	Array of String	(Optional) Searches by forwarding protocol. Values: [http, https, http/https]
Cname	No	String	CNAME of the Anti-DDoS Advanced instance

3. Output Parameters

Parameter Name	Type	Description
Rules	Array of NewL7RuleEntry	List of forwarding rules
Healths	Array of L7RuleHealth	List of health check settings
Total	Integer	Total number 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 layer-7 forwarding rules

Input Example

```
POST / HTTP/1.1
Host: antiddos.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNewL7Rules
<Common request parameters>

{
"StatusList": [
1
```

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```
],
"Domain": "xx",
"Business": "xx",
"Ip": "xx",
"Limit": 1,
"Offset": 1,
"ProtocolList": [
"xx"
]
}
```

Output Example

```
{
"Response": {
"Rules": [
{
"KeepTime": 1,
"HttpsToHttpEnable": 1,
"Status": 1,
"LbType": 1,
"CCLevel": "xx",
"CCEnable": 1,
"CCThreshold": 1,
"Region": 1,
"VirtualPort": 1,
"SourceList": [
{
"Source": "xx",
"Weight": 1
},
{
"Source": "xx",
"Weight": 1
}
],
"Cert": "xx",
"KeepEnable": 1,
"ModifyTime": "2020-09-22 00:00:00",
"Domain": "xx",
"Protocol": "xx",
"SourceType": 1,
"RuleId": "xx",
"Ip": "xx",
"PrivateKey": "xx",
"CertType": 1,
```

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```
"RuleName": "xx",
"CCStatus": 1,
"SSLId": "xx",
"Id": "xx"
}
],
"Healths": [
{
"Status": 1,
"Enable": 1,
"RuleId": "xx",
"Url": "xx",
"Interval": 1,
"AliveNum": 1,
"KickNum": 1,
"Method": "xx",
"StatusCode":1,
}
],
"Total": 1,
"RequestId": "xx"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.

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CreateBoundIP

Last updated：2023-02-17 10:17:56

1. API Description

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

This API is used to bind an IP to an Anti-DDoS Pro instance Both single IP instances and multi-IP instances are available. Note that you should wait until the current binding or unbinding completes before using this async API for new operations.

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: CreateBoundIP.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type. `bgp` : Anti-DDoS Pro (Single IP); `bgp-multip` : Anti-DDoS Pro (Multi-IP)
Id	Yes	String	Anti-DDoS instance ID
BoundDevList.N	No	Array of BoundIpInfo	Array of IPs to bind to the Anti-DDoS instance. For Anti-DDoS Pro Single IP instance, the array contains only one

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			IP. If there are no IPs to bind, it is empty; however, either `BoundDevList` or `UnBoundDevList` must not be empty.
UnBoundDevList.N	No	Array of BoundIpInfo	Array of IPs to unbind from the Anti-DDoS instance. For Anti-DDoS Pro Single IP instance, the array contains only one IP; if there are no IPs to unbind, it is empty; however, either `BoundDevList` or `UnBoundDevList` must not be empty.
CopyPolicy	No	String	Disused

3. Output Parameters

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

4. Example

Example1 Binding an IP to an Anti-DDoS Pro instance

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateBoundIP
&Business=bgp
&Id=bgp-000000xe
&BoundDevList.0.Ip=1.1.1.1
&BoundDevList.0.BizType=public
&BoundDevList.0.DeviceType=cvm
&BoundDevList.0.InstanceId=ins-f2f9ssbo
&<Common request parameters>
```

Output Example

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

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```
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"Success": {
"Code": "Success",
"Message": "Success"
}
}
}
```


5. Developer Resources

SDK

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- 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
LimitExceeded	The quota limit should not be exceeded.
ResourceInUse	The resource is occupied.
UnsupportedOperation	Unsupported operation.

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Connection Configuration APIs
CreateL7RuleCerts

Last updated：2023-02-17 10:18:09

1. API Description

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

This API is used to configure certificates with layer-7 forwarding rules in a batch for SSL testing.

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: CreateL7RuleCerts.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
CertId	Yes	String	SSL certificate ID
L7Rules.N	Yes	Array of InsL7Rules	List of Layer-7 domain name forwarding rules

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3. Output Parameters

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

4. Example

Example1 List of domain names bound to certificates

Input Example

```
POST / HTTP/1.1
Host: antiddos.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateL7RuleCerts
<Common request parameters>

{
"CertId": "cMgC0TpV",
"L7Rules": [
{
"InsId": "bgpip-000001eo",
"AppId": "251008915",
"Protocol": "https",
"Domain": "www.test.com",
"VirtualPort": "443",
"SSLId": "",
"Status": 8
}
]
}
```

Output Example

```
{
"Response": {
"RequestId": "a7d078cc-2547-47f8-b1d6-65bc67d28ae7",
"Success": {
```

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```
"Code": "Success",
"Message": "Success"
}
}
}
```

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
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.

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ResourceUnavailable	The resource is unavailable.
UnknownParameter	Unknown parameter error. Please check and try again.

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ModifyNewDomainRules

Last updated：2023-02-17 10:18:08

1. API Description

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

This API is used to modify layer-7 forwarding 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: ModifyNewDomainRules.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type (`bgpip` : Anti-DDoS Advanced).
Id	Yes	String	Anti-DDoS instance ID.
Rule	Yes	NewL7RuleEntry	Domain name forwarding rule.

3. Output Parameters

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

4. Example

Example1 Modifying layer-7 forwarding rules

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=ModifyNewDomainRules
&Business=bgpip
&Id=bgpip-000000xe
&Rule.RuleName=test
&Rule.Protocol=http
&Rule.Domain=www.abc.com
&Rule.SourceType=2
&Rule.LbType=1
&Rule.KeepTime=300
&Rule.SourceList.0.Source=1.1.1.10
&Rule.SourceList.0.Weight=100
&Rule.SourceList.1.Source=1.1.1.20
&Rule.SourceList.1.Weight=100
&Rule.CertType=0
&Rule.VirtualPort=8443
&Rule.KeepEnable=0
&<Common request parameters>
```

Output Example

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

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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
ResourceInUse	The resource is occupied.
UnsupportedOperation	Unsupported operation.

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CreateNewL7Rules

Last updated：2023-02-17 10:18:09

1. API Description

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

This API is used to add layer-7 forwarding 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: CreateNewL7Rules.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Rules.N	Yes	Array of L7RuleEntry	List of rules
Business	Yes	String	Anti-DDoS service type (`bgpip` : Anti-DDoS Advanced)
IdList.N	Yes	Array of String	List of resource IDs
VipList.N	Yes	Array of String	List of resource IPs

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3. Output Parameters

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

4. Example

Example1 Adding layer-7 forwarding rules

Input Example

```
POST / HTTP/1.1
Host: antiddos.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateNewL7Rules
<Common request parameters>

{
"Rules": [
{
"KeepTime": "300",
"Domain": "www.abc.com",
"Protocol": "http",
"SourceType": "2",
"CertType": "0",
"LbType": "1",
"SourceList": [
{
"Source": "1.1.1.20",
"Weight": "100"
},
{
"Source": "1.1.1.10",
"Weight": "100"
}
],
"KeepEnable": "0",
"RuleName": "test"
}
```

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```
],
"VipList": [
"192.168.1.1"
],
"IdList": [
"bgpip-000001"
],
"Business": "bgpip"
}
```

Output Example

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

5. Developer Resources

SDK

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

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

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6. Error Code

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

Error Code	Description
ResourceNotFound	The resource does not exist. Please try again later.
UnsupportedOperation	Unsupported operation.

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DescribeNewL7RulesErrHealth

Last updated：2023-02-17 10:18:09

1. API Description

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

This API is used to getting the exception results of the health check on layer-7 forwarding 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: DescribeNewL7RulesErrHealth.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type (`bgpip` : Anti-DDoS Advanced)
RuleIdList.N	No	Array of String	List of rule IDs

3. Output Parameters

Parameter	Type	Description

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Name		
ErrHealths	Array of KeyValue	List of rules with exceptions. `Key` : Rule ID, `Value` : Exception IPs and error message.
Total	Integer	Total number of rules with exceptions
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the exception results of the health check on layer-4 forwarding rules

Input Example

```
POST / HTTP/1.1
Host: antiddos.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeNewL7RulesErrHealth
<Common request parameters>

{
"Business": "bgpip"
}
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"Total": 1,
"ErrHealths": [
{
"Key": "rule-00000001",
"Value": "1.1.1.1 400,2.2.2.2 500"
}
]
}
}
```

5. Developer Resources

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SDK

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- 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

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

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Statistical Report APIs DescribeDDoSTrend

Last updated：2023-02-17 10:17:54

1. API Description

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

This API is used to get DDoS attack traffic bandwidth and attack packet rate.

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: DescribeDDoSTrend.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type. `bgpip` : Anti-DDoS Advanced; `bgp` : Anti-DDoS Pro (Single IP); `bgp-multip` : Anti-DDoS Pro (Multi-IP); `net` : Anti-DDoS Ultimate; `basic` : Anti-DDoS Basic
Ip	Yes	String	Instance IP
Period	Yes	Integer	Sampling period. Valid values: `300` (5 minutes), `3600` (one

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			hour), `86400` (one day)
StartTime	Yes	Timestamp	Beginning of the time range for the query
EndTime	Yes	Timestamp	End of the time range for the query
MetricName	Yes	String	Metric. Valid values: `bps` : attack traffic bandwidth; `pps` : attack packet rate
Id	No	String	Instance ID. Leave this field empty when `Business` is `basic` , as basic protection does not require an instance.

3. Output Parameters

Parameter Name	Type	Description
Count	Integer	Number of values returned
Business	String	Anti-DDoS service type. `bgpip` : Anti-DDoS Advanced; `bgp` : Anti-DDoS Pro (Single IP); `bgp-multip` : Anti-DDoS Pro (Multi-IP); `net` : Anti-DDoS Ultimate; `basic` : Anti-DDoS Basic
Ip	String	Instance IP
Period	Integer	Sampling period. Valid values: `300` (5 minutes), `3600` (one hour), `86400` (one day)
StartTime	Timestamp	Beginning of the time range for the query
EndTime	Timestamp	End of the time range for the query
Data	Array of Integer	Value array. The unit for attack traffic bandwidth is Mbps, and that for the packet rate is pps.
Id	String	Instance ID Note: this field may return `null` , indicating that no valid values can be obtained.
MetricName	String	Metric. Valid values: `bps` : attack traffic bandwidth; `pps` : attack packet rate
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

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4. Example

Example1 Getting DDoS attack data

Input Example

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

{
"Business": "bgpip",
"Ip": "1.1.1.1",
"Period": 330,
"StartTime": "2022-10-10 01:08:00",
"EndTime": "2022-10-10 01:13:00",
"Id": "bgpip-00000xxx",
"MetricName": "pps"
}
```

Output Example

```
{
"Response": {
"Business": "bgpip",
"Count": 2,
"Data": [
30,
20
],
"EndTime": "2022-10-10 01:13:00",
"Id": "bgpip-00000xxx",
"Ip": "1.1.1.1",
"MetricName": "pps",
"Period": 300,
"RequestId": "2f44a9d8-2b6f-4a9a-b1da-9d05d9e6ad83",
"StartTime": "2022-10-10 01:05:00"
}
}
```

5. Developer Resources

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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

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

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DescribeCCTrend

Last updated：2023-02-17 10:17:54

1. API Description

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

This API is used to get CC attack data, including total QPS peaks, attack QPS, total number of requests and number of attack requests.

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: DescribeCCTrend.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type. `bgpip` : Anti-DDoS Advanced; `bgp` : Anti-DDoS Pro (Single IP); `bgp-multip` : Anti-DDoS Pro (Multi-IP); `net` : Anti-DDoS Ultimate; `basic` : Anti-DDoS Basic
Ip	Yes	String	Instance IP
Period	Yes	Integer	Sampling period. Valid values: `300` (5 minutes), `3600` (one hour), `86400` (one day)
StartTime	Yes	Timestamp	Beginning of the time range for the query

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EndTime	Yes	Timestamp	End of the time range for the query
MetricName	Yes	String	Metric. Valid values: `inqps` (total QPS peaks), `dropqps` (attack QPS peaks), `incount` (total number of requests), and `dropcount` (number of attack requests).
Domain	No	String	(Optional) Domain name
Id	No	String	Instance ID. Leave this field empty when `Business` is `basic`, as basic protection does not require an instance.

3. Output Parameters

Parameter Name	Type	Description
Count	Integer	Number of values returned
Business	String	Anti-DDoS service type. `bgpip`: Anti-DDoS Advanced; `bgp`: Anti-DDoS Pro (Single IP); `bgp-multip`: Anti-DDoS Pro (Multi-IP); `net`: Anti-DDoS Ultimate; `basic`: Anti-DDoS Basic
Ip	String	Instance IP
Period	Integer	Sampling period. Valid values: `300` (5 minutes), `3600` (one hour), `86400` (one day)
StartTime	Timestamp	Beginning of the time range for the query
EndTime	Timestamp	End of the time range for the query
Data	Array of Integer	Value array
Id	String	Instance ID Note: this field may return `null`, indicating that no valid values can be obtained.
MetricName	String	Metric. Valid values: `inqps` (total QPS peaks), `dropqps` (attack QPS peaks), `incount` (total number of requests), and `dropcount` (number of attack requests).
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

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4. Example

Example1 Getting CC attack data

Input Example

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

{
"Domain": "www.test.com",
"Business": "bgp",
"Ip": "1.2.3.4",
"Period": 0,
"StartTime": "2020-09-22 00:00:00",
"EndTime": "2020-09-22 00:00:00",
"Id": "bgp-00000010",
"MetricName": "inqps"
}
```

Output Example

```
{
"Response": {
"Business": "bgp",
"Count": 1,
"Data": [
1234
],
"EndTime": "2018-08-27 16:05:10",
"Id": "bgp-00000010",
"Ip": "3.3.3.3",
"MetricName": "inqps",
"Period": 300,
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"StartTime": "2018-08-27 15:05:10"
}
}
```

5. Developer Resources

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SDK

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- Tencent Cloud SDK 3.0 for .NET
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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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DescribeBizTrend

Last updated：2023-02-17 10:17:54

1. API Description

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

This API is used to get the traffic flow data collected in the specified period.

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: DescribeBizTrend.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Statistics	Yes	String	Statistical method. Valid values: `max` , `min` , `avg` , `sum` . It can only be `max` if the statistical dimension is traffic rate or packet rate.
Business	Yes	String	Anti-DDoS service type (`bgpip` : Anti-DDoS Advanced)
Period	Yes	Integer	Sampling interval in seconds. Valid values: `60` , `300` , `1800` , `3600` , `21600` , `86400`
StartTime	Yes	Timestamp	Beginning of the time range for the query, such as `2020-09-22 00:00:00` .

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EndTime	Yes	Timestamp	End of the time range for the query, such as `2020-09-22 00:00:00`.
Id	Yes	String	Instance ID
MetricName	Yes	String	Metric. Valid values: `connum`, `new_conn`, `inactive_conn`, `intraffic`, `outtraffic`, `inpkg`, `outpkg`, `qps`
Domain	No	String	You can query data by specifying a domain name when the metric is `qps`.
ProtoInfo.N	No	Array of ProtocolPort	Protocol and port list, which is valid when the metric is `connum`, `new_conn` or `inactive_conn`. Valid protocols: `TCP`, `UDP`, `HTTP`, `HTTPS`

3. Output Parameters

Parameter Name	Type	Description
DataList	Array of Float	Value at a time point on the curve
MetricName	String	Statistical dimension
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the traffic flow data collected in the specified period

Input Example

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

{
```

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```
"Domain": "test.com",
"Statistics": "avg",
"Business": "bgpip",
"ProtoInfo": [
{
"Protocol": "TCP",
"Port": 1
}
],
"Period": 1,
"StartTime": "2020-09-22 00:00:00",
"EndTime": "2020-09-22 00:00:00",
"Id": "bgpip-00000001",
"MetricName": "qps"
}
```


Output Example


```
{
"Response": {
"DataList": [
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
236,
```


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```
236,
236,
236,
236,
236,
236,
236,
236,
236,
236
],
"MetricName": "intraffic",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
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Command Line Interface

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6. Error Code

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

Error Code	Description

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DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.

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DescribeOverviewDDoSEventList

Last updated：2023-02-17 10:17:53

1. API Description

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

This API is used to obtain the list of DDoS attacks.

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: DescribeOverviewDDoSEventList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
StartTime	Yes	String	Start time
EndTime	Yes	String	End time
AttackStatus	No	String	Filters by the attack status. `start` : The attack is ongoing; `end` : The attack ends.
Offset	No	Integer	The offset value
Limit	No	Integer	Total number of records

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of records
EventList	Array of OverviewDDoSEvent	Event list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting a list of DDoS events

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeOverviewDDoSEventList
&StartTime=2020-02-01 12:04:12
&EndTime=2020-02-03 18:03:23
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"Total": 1,
"EventList": [
{
"Id": "ddosev-00000421",
"Vip": "10.143.145.42",
"StartTime": "2021-04-14 14:14:54",
"EndTime": "2021-04-14 14:16:23",
"AttackType": "SYNFLOOD",
"AttackStatus": 0,
"Mbps": 23414,
"Pps": 2313,
"Business": "bgpip",
"InstanceId": "bgpip-00000143",
"InstanceName": "test"
```

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```
}
]
}
}
```

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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.

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InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
RequestLimitExceeded	The number of requests should not exceed the frequency limit.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DescribeBgpBizTrend

Last updated：2023-02-17 10:17:55

1. API Description

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

This API is used to obtain Anti-DDoS Pro traffic data.

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

We recommend you to use API Explorer

Try it

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

2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBgpBizTrend.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service code. `bgp-multip` indicates Anti-DDos Pro.
StartTime	Yes	String	Beginning of the time range for the query, such as `2020-09-22 00:00:00`.
EndTime	Yes	String	End of the time range for the query, such as `2020-09-22 00:00:00`.
MetricName	Yes	String	Statistical metric. Values: `intraffic`, `outtraffic`, `inpkg`, and `outpkg`.

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InstanceId	Yes	String	Instance ID
Flag	Yes	Integer	`0` : Fixed time. `1` : Custom time.

3. Output Parameters

Parameter Name	Type	Description
DataList	Array of Integer	Values of the samples
Total	Integer	Number of samples
MetricName	String	Statistical metric
MaxData	Integer	Maximum value of the arrays returned
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 Anti-DDoS Pro traffic data.

Input Example

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

{
"Business": "bgp-multip",
"InstanceId": "bgp-00000001",
"Flag": 1,
"StartTime": "2022-11-29 00:00:00",
"EndTime": "2022-11-29 01:00:00",
"MetricName": "intraffic"
}
```

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Output Example

```
{
"Response": {
"DataList": [
1
],
"Total": 1,
"MaxData": 1,
"RequestId": "f4b3915e-c1bd-4ca4-aaef-e88eaa8aa66e",
"MetricName": "intraffic"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

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DescribePendingRiskInfo

Last updated：2023-02-17 10:17:53

1. API Description

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

This API is used to query the information of pending risks at the account level.

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: DescribePendingRiskInfo.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
IsPaidUsr	Boolean	Whether the user is a paid user. Values: `true` , `false` .
AttackingCount	Integer	Number of resources being attacked

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BlockingCount	Integer	Number of resource blocked
ExpiredCount	Integer	Number of expired resources
Total	Integer	Total pending risk events
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 pending risks at the account-level

Querying the information of pending risks at the account-level

Input Example

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

{}
```

Output Example

```
{
"Response": {
"ExpiredCount": 144,
"IsPaidUsr": true,
"AttackingCount": 0,
"RequestId": "0506d138-ef0f-4ff4-83b0-f1d85e740afd",
"Total": 146,
"BlockingCount": 2
}
}
```

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

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

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DescribeBizHttpStatus

Last updated：2023-02-17 10:17:54

1. API Description

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

This API is used to get the statistics on the status codes of business traffic.

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: DescribeBizHttpStatus.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Statistics	Yes	String	Statistical mode. Value: `sum` .
Business	Yes	String	Anti-DDoS service type (`bgpip` : Anti-DDoS Advanced)
Period	Yes	Integer	Statistical period in seconds. Valid values: `60` , `300` , `1800` , `3600` , `21600` , and `86400` .
StartTime	Yes	String	Statistics start time, such as `2020-02-01 12:04:12`
EndTime	Yes	String	Statistics end time, such as `2020-02-03 18:03:23`

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Id	Yes	String	The resource ID.
Domain	No	String	Specific domain name query
ProtoInfo.N	No	Array of ProtocolPort	Protocol and port list, which is valid when the metric is `connum`, `new_conn` or `inactive_conn`. Valid protocols: `TCP`, `UDP`, `HTTP`, `HTTPS`

3. Output Parameters

Parameter Name	Type	Description
HttpStatusMap	HttpStatusMap	Statistics on the HTTP status codes of business traffic
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the statistical curves on the status codes of business traffic

Input Example

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

{
"Domain": "xx",
"Statistics": "xx",
"Business": "xx",
"ProtoInfo": [
{
"Protocol": "xx",
"Port": 1
}
],
"Period": 1,
"StartTime": "2020-09-22 00:00:00",
```

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```
"EndTime": "2020-09-22 00:00:00",
"Id": "xx"
}
```

Output Example

```
{
"Response": {
"HttpStatusMap": {
"SourceHttp2xx": [
1,
2,
3,
2
],
"Http5xx": [
1,
2,
3,
2
],
"SourceHttp5xx": [
1,
2,
3,
2
],
"SourceHttp404": [
1,
2,
3,
2
],
"Http4xx": [
1,
2,
3,
2
],
"SourceHttp4xx": [
1,
2,
3,
2
],
"Http2xx": [
```

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```
1,
2,
3,
2
],
"Http404": [
1,
2,
3,
2
],
"SourceHttp3xx": [
1,
2,
3,
2
],
"Http3xx": [
1,
2,
3,
2
]
},
"RequestId": "xx"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
ResourceInUse	The resource is occupied.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
UnknownParameter	Unknown parameter error. Please check and try again.

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Other APIs
DescribeBasicDeviceStatus

Last updated：2023-02-17 10:18:06

1. API Description

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

This API is used to querying the status of Anti-DDoS IP.

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: DescribeBasicDeviceStatus.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
IpList.N	Yes	Array of String	List of IP resources

3. Output Parameters

Parameter	Type	Description

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Name		
Data	Array of KeyValue	Status of the specified Anti-DDoS resource. Valid values: `1` : The IP is blocked. `2` : The P is normal. `3` : The IP is being attacked.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the status of an Anti-DDoS IP

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeBasicDeviceStatus
&IpList.0='1.1.1.1'
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Data": [
{
"Key": "1.1.1.1",
"Value": "1"
}
],
"RequestId": "8f7a9451-2372-4a88-a69d-9868b8991076"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

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

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ModifyCCPrecisionPolicy

Last updated：2023-02-17 10:18:05

1. API Description

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

This API is used to modify a CC precise protection 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: ModifyCCPrecisionPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
PolicyId	Yes	String	Policy ID
PolicyAction	Yes	String	Specifies the action. `alg` : Verify the access request via CAPTCHA; `drop` : Drop the access request.
PolicyList.N	Yes	Array of CCPrecisionPlyRecord	Policy records

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3. Output Parameters

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

4. Example

Example1 Modifying a CC precise protection policy

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=ModifyCCPrecisionPolicy
&InstanceId=bgpip-0000011x
&PolicyId=ccPrecs-00000326
&PolicyAction=alg
&PolicyList.0.FieldType=value
&PolicyList.0.FieldName=cgi
&PolicyList.0.Value=/cadwe
&PolicyList.0.ValueOperator=equal
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.

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ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DescribeCCPrecisionPlyList

Last updated：2023-02-17 10:18:06

1. API Description

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

This API is used to obtain the list of CC precise protection 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: DescribeCCPrecisionPlyList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service type. Valid values: `bgpip-multip` (Anti-DDoS Pro) and `bgpip` (Anti-DDoS Advanced).
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of results returned in one page
InstanceId	No	String	Instance ID
Ip	No	String	IP address, which is required when an Anti-DDoS Advanced instance is

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			used.
Domain	No	String	Domain name, which is required when an Anti-DDoS Advanced instance is used.
Protocol	No	String	Protocol, which is required when an Anti-DDoS Advanced instance is used.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Number of policy lists
PrecisionPolicyList	Array of CCPrecisionPolicy	Information of the policy list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Obtaining the list of CC precise protection policies

Input Example

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

{
"Business": "bgp-multip",
"InstanceId": "bgp-00000211",
"Limit": 10,
"Offset": 0
}
```

Output Example

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```
{
"Response": {
"RequestId": "23a97c66-22d4-4522-b93b-388aac08777d",
"Total": 1,
"PrecisionPolicyList": [
{
"PolicyId": "ccPrecs-00000001",
"InstanceId": "bgp-00000211",
"Ip": "1.1.1.1",
"Protocol": "http",
"Domain": "www.test.com",
"PolicyAction": "alg",
"PolicyList": [
{
"FieldType": "value",
"FieldName": "cgi",
"Value": "test",
"ValueOperator": "include"
}
],
"CreateTime": "2022-12-01 09:05:36",
"ModifyTime": "2022-12-01 09:05:36"
}
]
}
}
```


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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DeleteCCPrecisionPolicy

Last updated：2023-02-17 10:18:07

1. API Description

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

This API is used to delete a CC precise protection 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: DeleteCCPrecisionPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
PolicyId	Yes	String	Policy ID

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Deleting CC precise protection policies

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteCCPrecisionPolicy
&InstanceId=bgpip-0000011x
&PolicyId=ccPrecs-00000324
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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CreateCCReqLimitPolicy

Last updated：2023-02-17 10:18:07

1. API Description

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

This API is used to create a CC frequency limit 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: CreateCCReqLimitPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Ip	Yes	String	IP address
Protocol	Yes	String	Protocol. Valid values: `HTTP` and `HTTPS`.
Domain	Yes	String	Domain name
Policy	Yes	CCReqLimitPolicyRecord	Configuration field

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IsGlobal	No	Integer	Whether it's a global CC frequency limit

3. Output Parameters

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

4. Example

Example1 Creating a CC precise protection policy

Input Example

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

{
"Domain": "www.baidu.com",
"InstanceId": "bgpip-000005v7",
"Ip": "1.1.1.1",
"Policy": {
"Action": "alg",
"ExecuteDuration": 120,
"Mode": "equal",
"Period": 10,
"RequestNum": 500,
"Uri": "/"
},
"Protocol": "http"
}
```

Output Example

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

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```
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```


5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

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LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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CreateCCPrecisionPolicy

Last updated：2023-02-17 10:18:07

1. API Description

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

This API is used to create a CC precise protection 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: CreateCCPrecisionPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Ip	Yes	String	IP address
Protocol	Yes	String	Protocol. Valid values: `HTTP` and `HTTPS`.
Domain	Yes	String	Domain name
PolicyAction	Yes	String	Action of limiting request frequency. Valid values:

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			`alg` (limit request frequency via verification codes) and `drop` (drop requests).
PolicyList.N	Yes	Array of CCPrecisionPlyRecord	Policy records

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 Creates a CC precise protection policy

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=CreateCCPrecisionPolicy
&InstanceId=bgpip-0000011x
&Ip=1.2.1.3
&Protocol=HTTP
&Domain=1.acx.com
&PolicyAction=alg
&PolicyList.0.FieldType=value
&PolicyList.0.FieldName=cgi
&PolicyList.0.Value=/asd
&PolicyList.0.ValueOperator=equal
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.

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ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DescribeCCThresholdList

Last updated：2023-02-17 10:18:05

1. API Description

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

This API is used to query the list of CC cleansing thresholds.

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: DescribeCCThresholdList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service code. `bgp-multip` indicates Anti-DDos Pro.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of results returned in one page
InstanceId	No	String	ID of the specified instance

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of cleansing threshold policies
ThresholdList	Array of CCThresholdPolicy	Details of cleansing threshold policies
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 CC cleansing thresholds

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeCCThresholdList
&Business=bgp-multip
&Offset=0
&Limit=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794",
"Total": 1,
"ThresholdList": [
{
"InstanceId": "bgp-000000432",
"Ip": "1.2.1.1",
"Protocol": "HTTP",
"Domain": "1.ase.com",
"Threshold": 1000,
"CreateTime": "2020-03-27 14:32:12",
"ModifyTime": "2020-03-27 14:32:32"
}
]
```

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```
}
}
```

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 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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

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LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DescribeCCLevelPolicy

Last updated：2023-02-17 10:18:06

1. API Description

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

This API is used the query a level-defining policy of CC attacks

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: DescribeCCLevelPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Ip	Yes	String	IP
Domain	Yes	String	Domain name
Protocol	Yes	String	Protocol. Values: `HTTP` , `HTTPS`

3. Output Parameters

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Parameter Name	Type	Description
Level	String	CC protection level. Vaules: `loose` , `strict` , `normal` , `emergency` , `sup_loose` (super loose), `default` (used when the frequency limit is not configured) and `customized`
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a level-defining policy of CC attacks

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeCCLevelPolicy
&InstanceId=bgpip-0000011x
&Ip=1.3.2.5
&Domain=1.sca.com
&Protocol=HTTP
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794",
"Level": "loose"
}
}
```

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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.

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UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DescribeCCLevelList

Last updated：2023-02-17 10:18:06

1. API Description

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

Gets the list of CC protection levels

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: DescribeCCLevelList.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
Business	Yes	String	Anti-DDoS service code. `bgp-multip` indicates Anti-DDos Pro.
Offset	Yes	Integer	Starting offset of the page. Value: (number of pages – 1) * items per page.
Limit	Yes	Integer	Number of results returned in one page
InstanceId	No	String	ID of the specified instance

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3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of level-defining policies
LevelList	Array of CCLevelPolicy	Total number of level-defining policies
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Getting the list of CC protection levels

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DescribeCCLevelList
&Business=edge
&Offset=0
&Limit=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794",
"Total": 1,
"LevelList": [
{
"InstanceId": "edge-000000xe",
"Ip": "1.2.1.1",
"Protocol": "HTTP",
"Domain": "1.ase.com",
"Level": "loose",
"CreateTime": "2020-03-27 14:32:12",
"ModifyTime": "2020-03-27 14:32:32"
}
]
```

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```
}
}
```

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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.

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LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DeleteCCThresholdPolicy

Last updated：2023-02-17 10:18:07

1. API Description

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

This API is used to delete a CC cleansing threshold 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: DeleteCCThresholdPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Ip	Yes	String	Target IP of the policy
Domain	Yes	String	Domain name
Protocol	Yes	String	Value: `http`

3. Output Parameters

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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 CC cleansing threshold policy

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteCCThresholdPolicy
&InstanceId=bgpip-0000011x
&Ip=1.1.1.3
&Domain=test.com
&Protocol=http
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

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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- 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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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DeleteCCLevelPolicy

Last updated：2023-02-17 10:18:07

1. API Description

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

This API is used to delete a level-defining policy of CC attacks.

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: DeleteCCLevelPolicy.
Version	Yes	String	Common Params. The value used for this API: 2020-03-09.
Region	No	String	Common Params. This parameter is not required for this API.
InstanceId	Yes	String	Instance ID
Ip	Yes	String	Target IP of the policy
Domain	Yes	String	Domain name
Protocol	Yes	String	Value: `http`

3. Output Parameters

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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 level-defining policy of CC attacks

Input Example

```
https://antiddos.tencentcloudapi.com/?Action=DeleteCCLevelPolicy
&InstanceId=bgpip-0000011x
&Ip=1.1.1.3
&Domain=test.com
&Protocol=http
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "5063ab0a-a8a7-41e8-ace2-263b2c1c8794"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for NodeJS
- Tencent Cloud SDK 3.0 for .NET

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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.
DryRunOperation	The DryRun operation means that the request will be successful, but an extra DryRun parameter is passed.
FailedOperation	Operation failed.
InternalError	Internal error. Please try again later.
InvalidParameter	Parameter error.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	The quota limit should not be exceeded.
MissingParameter	Missing parameters. Please check and try again.
OperationDenied	Operation denied.
ResourceInUse	The resource is occupied.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist. Please try again later.
ResourceUnavailable	The resource is unavailable.
ResourcesSoldOut	The resources have been sold out.
UnauthorizedOperation	The operation is unauthorized.
UnknownParameter	Unknown parameter error. Please check and try again.
UnsupportedOperation	Unsupported operation.

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Data Types

Last updated：2023-02-17 10:18:11

AnycastOutPackRelation

Details of the Anycast package

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
NormalBandwidth	Integer	Application bandwidth (in Mbps). Note: This field may return null, indicating that no valid values can be obtained.
ForwardRulesLimit	Integer	Number of forwarding rules Note: This field may return null, indicating that no valid values can be obtained.
AutoRenewFlag	Integer	Auto-renewal flag Note: This field may return null, indicating that no valid values can be obtained.
CurDeadline	String	Expiration date Note: This field may return null, indicating that no valid values can be obtained.

BGPIPInstance

Anti-DDoS Advanced instance details

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
InstanceDetail	InstanceRelation	Anti-DDoS instance details
SpecificationLimit	BGPIPInstanceSpecification	Anti-DDoS instance specifications
Usage	BGPIPInstanceUsages	Anti-DDoS instance usage statistics
Region	RegionInfo	Region of the Anti-DDoS instance

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Status	String	Status of the Anti-DDoS instance. Valid values: `idle` : running `attacking` : under attacks `blocking` : blocked `creating` : creating `deblocking` : unblocking `isolate` : reprocessed and isolated
ExpiredTime	Timestamp	Purchase time
CreatedTime	Timestamp	Expired At
Name	String	Name of the Anti-DDoS instance
PackInfo	PackInfo	Package details of the Anti-DDoS instance. Note: This field is `null` for an Anti-DDoS instance without using a package. Note: This field may return `null` , indicating that no valid value can be obtained.
StaticPackRelation	StaticPackRelation	Non-BGP package details of the Anti-DDoS instance. Note: This field is `null` for an Anti-DDoS instance without using a non-BGP package. Note: This field may return `null` , indicating that no valid value can be obtained.
ZoneId	Integer	Specifies the ISP. `0` : Chinese mainland ISPs (default); `1` : Radware ; `2` : Tencent; `3` : NSFOCUS. Note that `1` , `2` and `3` are used for services outside the Chinese mainland. Note: this field may return `null` , indicating that no valid values can be obtained.
Tgw	Integer	Used to differentiate clusters Note: This field may return `null` , indicating that no valid value can be obtained.
EipAddressStatus	String	EIP states: `CREATING` , `BINDING` , `BIND` , `UNBINDING` , `UNBIND` , `OFFLINING` , and `BIND_ENI` . The EIP must be bound to an Anti-DDoS Advanced instance. Note: This field may return `null` , indicating that no valid value can be obtained.
EipFlag	Integer	Whether it is an Anti-DDoS EIP instance. `1` :

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		Yes; `0` : No. Note: This field may return `null` , indicating that no valid value can be obtained.
EipAddressPackRelation	EipAddressPackRelation	EIP package details of the Anti-DDoS Advanced instance. Note: This field is `null` for an Anti-DDoS Advanced instance without using an EIP package. Note: This field may return `null` , indicating that no valid value can be obtained.
EipAddressInfo	EipAddressRelation	Details of the Anti-DDoS Advanced instance bound to the EIP. Note: This field is `null` if the EIP is not bound to an Anti-DDoS Advanced instance. Note: This field may return `null` , indicating that no valid value can be obtained.
Domain	String	Recommended domain name for clients to access. Note: this field may return `null` , indicating that no valid values can be obtained.
DamDDoSStatus	Integer	Whether to enable Sec-MCA. Valid values: `1` (enabled) and `0` (disabled).
V6Flag	Integer	Whether it's an IPv6 address. `1` : Yes; `0` : No. Note: this field may return `null` , indicating that no valid values can be obtained.
BGPIPChannelFlag	Integer	Whether it's an Anti-DDoS Advanced instance from Tencent Cloud channels. `1` : Yes; `0` : No. Note: This field may return `null` , indicating that no valid value can be obtained.
TagInfoList	Array of TagInfo	Tag that the Anti-DDoS Advanced instance is associated with Note: This field may return `null` , indicating that no valid value can be obtained.
AnycastOutPackRelation	AnycastOutPackRelation	All-out package details of the instance When an all-out package is not used by the instance, this field is `null` . Note: This field may return `null` , indicating that no valid value can be obtained.

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InstanceVersion	Integer	Edition of the instance Note: This field may return `null`, indicating that no valid value can be obtained.
ConvoyId	String	Convoy instance ID Note: This field may return `null`, indicating that no valid value can be obtained.
ElasticBandwidth	Integer	Pay-as-you-go bandwidth Note: This field may return `null`, indicating that no valid value can be obtained.
EOFlag	Integer	Whether it's the IP broadcasted by EdgeOne. Values: `1` (yes), `0` (no) Note: This field may return null, indicating that no valid values can be obtained.

BGPIPInstanceSpecification

Anti-DDoS Advanced instance specifications

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
ProtectBandwidth	Integer	Base protection bandwidth (in Mbps)
ProtectCCQPS	Integer	CC protection bandwidth (in QPS)
NormalBandwidth	Integer	Normal application bandwidth (in Mbps)
ForwardRulesLimit	Integer	Number of forwarding rules
AutoRenewFlag	Integer	Auto-renewal status. Valid values: `0`: disabled `1`: enabled]
Line	Integer	Anti-DDoS Advanced line. Valid values: `1`: BGP `2`: China Telecom `3`: China Unicom `4`: China Mobile `99`: third-party line]

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ElasticBandwidth	Integer	Elastic protection bandwidth (in Mbps)

BGPIPInstanceUsages

Anti-DDoS Advanced instance usage statistics

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
PortRulesUsage	Integer	Number of used port rules
DomainRulesUsage	Integer	Number of used domain name rules
Last7DayAttackCount	Integer	Number of attack times in the last 7 days

BGPInstance

Details of the Anti-DDoS Pro instance

Used by actions: DescribeListBGPInstances.

Name	Type	Description
InstanceDetail	InstanceRelation	Details of the Anti-DDoS Pro instance
SpecificationLimit	BGPInstanceSpecification	Specifications of the Anti-DDoS Pro instance
Usage	BGPInstanceUsages	Usage statistics of the Anti-DDoS Pro instance
Region	RegionInfo	Region of the Anti-DDoS Pro instance
Status	String	Status of the Anti-DDoS Pro instance. Valid values: `idle` : The instance is running normally. `attacking` : The instance is under attack. `blocking` : The instance is blocked. `creating` : The instance is being created. `deblocking` : Unblocking the instance `isolate` : The instance is being isolated.
CreatedTime	Timestamp	Purchase time
ExpiredTime	Timestamp	Expiration time

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Name	String	Name of the Anti-DDoS Pro instance
PackInfo	PackInfo	Details of the package to which the Anti-DDoS Pro instance belongs. When the package provided is not used by the instance, this field is `null` . Note: This field may return `null` , indicating that no valid value can be obtained.
EipProductInfos	Array of EipProductInfo	Details of the cloud product used by the EIP bound to the Anti-DDoS Pro instance
BoundStatus	String	Binding status of the Anti-DDoS Pro instance `idle` : The instance is bound. `bounding` : Binding the instance. `failed` : Failed to bind]
DDoSLevel	String	Layer-4 protection level
CCEnable	Integer	Status of CC protection
TagInfoList	Array of TagInfo	Tags associated with the resource
IpCountNewFlag	Integer	New edition of Anti-DDoS Pro
VitalityVersion	Integer	The version of attack defense package
Line	Integer	Network line Note: This field may return null, indicating that no valid values can be obtained.
ElasticServiceBandwidth	Integer	Whether to enable elastic bandwidth

BGPInstanceSpecification

Anti-DDoS Pro instance specifications

Used by actions: DescribeListBGPInstances.

Name	Type	Description
ProtectBandwidth	Integer	Base protection bandwidth (in Gbps)
ProtectCountLimit	Integer	Number of protection chances

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ProtectIPNumberLimit	Integer	Number of protected IPs
AutoRenewFlag	Integer	Auto-renewal status. Values: `0` : Disabled `1` : Enabled]
UnionPackFlag	Integer	Protection type of Anti-DDoS Pro. Valid values: `0` (general protection) and `1` (Lighthouse-based protection). Note: This field may return null, indicating that no valid values can be obtained.
ServiceBandWidth	Integer	Application bandwidth Note: This field may return null, indicating that no valid values can be obtained.
BattleEditionFlag	Integer	Whether it's an Anti-DDoS Pro Premium edition. Values: `0` (General edition); `1` (Premium edition). Note: This field may return null, indicating that no valid values can be obtained.
ChannelEditionFlag	Integer	Whether it's an Anti-DDoS Pro Standard edition. Values: `0` (General edition); `1` (Standard edition). Note: This field may return null, indicating that no valid values can be obtained.
EnterpriseFlag	Integer	Whether it's an Anti-DDoS Pro Enterprise edition. Values: `0` (General edition); `1` (Enterprise edition). Note: This field may return null, indicating that no valid values can be obtained.
ElasticLimit	Integer	Elastic bandwidth threshold of the Anti-DDoS Pro Enterprise edition. Note: This field may return null, indicating that no valid values can be obtained.

BGPInstanceUsages

Anti-DDoS Pro instance usage statistics

Used by actions: DescribeListBGPInstances.

Name	Type	Description
ProtectCountUsage	Integer	Number of used protection chances

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ProtectIPNumberUsage	Integer	Number of protected IPs
Last7DayAttackCount	Integer	Number of attack times in the last 7 days

BlackWhiteIpRelation

IP blocklist/allowlist

Used by actions: DescribeListBlackWhiteIpList.

Name	Type	Description
Ip	String	IP address
Type	String	IP type. Valid values: `black` (blocklisted IP), `white` (allowlisted IP).
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured
Mask	Integer	IP mask. `0` indicates a 32-bit IP.
ModifyTime	String	Modification time

BoundIpInfo

IP bound to the Anti-DDoS Pro instance

Used by actions: CreateBoundIP.

Name	Type	Required	Description
Ip	String	Yes	IP address
BizType	String	No	Category of product that can be bound. Valid values: `public` (CVM and CLB), `bm` (BM), `eni` (ENI), `vpngw` (VPN gateway), `natgw` (NAT gateway), `waf` (WAF), `fpc` (financial products), `gaap` (GAAP), and `other` (hosted IP). This field is required when you perform binding.
InstanceId	String	No	Anti-DDoS instance ID of the IP. This field is required only when the instance is bound to an IP. For example, this field InstanceId will be

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			`eni-*` if the instance ID is bound to an ENI IP; `none` if there is no instance to bind to a managed IP.
DeviceType	String	No	Sub-product category. Valid values: `cvm` (CVM), `lb` (Load balancer), `eni` (ENI), `vpngw` (VPN gateway), `natgw` (NAT gateway), `waf` (WAF), `fpc` (financial products), `gaap` (GAAP), `eip` (BM EIP) and `other` (managed IP). This field is required when you perform binding.
IspCode	Integer	No	ISP. Valid values: `0` (China Telecom), `1` (China Unicom), `2` (China Mobile), and `5` (BGP). This field is required when you perform binding.

CCLevelPolicy

The level-defining policy of CC attacks

Used by actions: DescribeCCLevelList.

Name	Type	Description
InstanceId	String	Instance ID
Ip	String	Ip
Protocol	String	Protocol
Domain	String	Domain name
Level	String	Protection level. Values: `default`, `loose` and `strict`.
CreateTime	Timestamp	Creation time
ModifyTime	Timestamp	Modification time

CCPrecisionPlyRecord

CC precise protection configuration fields

Used by actions: CreateCCPrecisionPolicy, DescribeCCPrecisionPlyList, ModifyCCPrecisionPolicy.

Name	Type	Required	Description

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FieldType	String	Yes	Type of the configuration field. Only `value` is supported.
FieldName	String	Yes	Configuration field. Valid values: `cgi` , `ua` , `cookie` , `referer` , `accept` , and `srcip` .
Value	String	Yes	Value of the configuration field
ValueOperator	String	Yes	Filters values of configuration fields. `equal` : The value matches the configuration field. `not_equal` : The value does not match the configuration field. `include` : The value is included.

CCPrecisionPolicy

CC precise protection policy information

Used by actions: DescribeCCPrecisionPlyList.

Name	Type	Description
PolicyId	String	Policy ID
InstanceId	String	Instance ID
Ip	String	IP address
Protocol	String	Protocol
Domain	String	Domain name
PolicyAction	String	Action of limiting request frequency. Valid values: `alg` (limit request frequency via verification codes) and `drop` (drop requests).
PolicyList	Array of CCPrecisionPlyRecord	List of policies
CreateTime	Timestamp	Creation time
ModifyTime	Timestamp	Modification time

CCReqLimitPolicyRecord

Configuration fields of CC frequency limit policies

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Used by actions: CreateCCReqLimitPolicy.

Name	Type	Required	Description
Period	Integer	Yes	Sampling interval (in seconds). Valid values: `1`, `10`, `30`, and `60`.
RequestNum	Integer	Yes	Number of requests. Value range: 1-2000.
Action	String	Yes	Action of limiting request frequency. Valid values: `alg` (limit request frequency via verification codes) and `drop` (drop requests).
ExecuteDuration	Integer	Yes	Sets an interval of the frequency limit policy. Value range: 1-86400 (in seconds).
Mode	String	Yes	Filters values of configuration fields. `include`: The value is included. `equal`: The value matches the configuration field.
Uri	String	No	URI, which cannot be used together with `User-Agent` and `Cookie`.
UserAgent	String	No	User-Agent, which cannot be used together with `Uri` and `Cookie`.
Cookie	String	No	Cookie, which cannot be used together with `Uri` and `User-Agent`.

CCThresholdPolicy

CC cleansing threshold policy

Used by actions: DescribeCCThresholdList.

Name	Type	Description
InstanceId	String	Instance ID
Ip	String	IP address
Protocol	String	Protocol
Domain	String	Domain name
Threshold	Integer	Cleansing threshold

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CreateTime	Timestamp	Creation time
ModifyTime	Timestamp	Modification time

CcBlackWhiteIpPolicy

Layer-4 access control list

Used by actions: DescribeCcBlackWhiteIpList.

Name	Type	Description
PolicyId	String	Policy ID
InstanceId	String	Instance ID
Ip	String	IP address
Domain	String	Domain name
Protocol	String	Protocol
Type	String	IP type. Valid values: `black` (blocklisted IP), `white` (allowlisted IP).
BlackWhiteIp	String	Blocklist/Allowlist IP address
Mask	Integer	Mask
CreateTime	String	Creation time
ModifyTime	String	Modification time

CcGeoIPBlockConfig

Anti-DDoS regional blocking configuration

Used by actions: CreateCcGeoIPBlockConfig, DeleteCcGeoIPBlockConfig.

Name	Type	Required	Description
RegionType	String	Yes	Region type. Valid values: `oversea` : Outside the Chinese mainland. `china` : The Chinese mainland.

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			`customized` : User-specified region.]
Action	String	Yes	Blocking action. Valid values: `drop` : Block the request. `alg` : Verify the request via CAPTCHA.]
Id	String	No	Configuration ID, which is generated after a configuration is added. This field is only required to modify or delete a configuration.
AreaList	Array of Integer	No	This field is required when RegionType is `customized` ; it can be left empty when RegionType is `china` or `oversea` .

CcGeoIpPolicyNew

Information of the policy list

Used by actions: DescribeCcGeoIPBlockConfigList.

Name	Type	Description
PolicyId	String	Policy ID
InstanceId	String	Instance ID
Ip	String	IP address
Domain	String	
Protocol	String	Protocol. Valid values: `HTTP` and `HTTPS` .
Action	String	Action. Valid values: `drop` and `alg` .
RegionType	String	Region type. Valid values: `china` , `oversea` and `customized` .
AreaList	Array of Integer	ID list of regions to be blocked
CreateTime	String	Creation time
ModifyTime	String	Modification time

CertIdInsL7Rules

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Set of rules configured for certificates

Used by actions: DescribeL7RulesBySSLCertId.

Name	Type	Description
L7Rules	Array of InsL7Rules	List of rules configured for certificates
CertId	String	Certificate ID

DDoSAIRelation

Anti-DDoS AI protection switch

Used by actions: DescribeListDDoSAI.

Name	Type	Description
DDoSAI	String	AI protection switch. Valid values: `on` : enabled `off` : disabled]
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured

DDoSGeoIPBlockConfig

Anti-DDoS region blocking configuration

Used by actions: CreateDDoSGeoIPBlockConfig, DeleteDDoSGeoIPBlockConfig, DescribeListDDoSGeoIPBlockConfig, ModifyDDoSGeoIPBlockConfig.

Name	Type	Required	Description
RegionType	String	Yes	Region type. Valid values: `oversea` : Outside the Chinese mainland `china` : The Chinese mainland `customized` : User-specified region]
Action	String	Yes	Blocking action. Valid values: `drop` : the request is blocked.

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			`trans` : the request is allowed.]
Id	String	No	Configuration ID, which is generated after a configuration is added. This field is only required to modify or delete a configuration.
AreaList	Array of Integer	No	When `RegionType = customized` , AreaList is required and contains up to 128 areas.

DDoSGeoIPBlockConfigRelation

Anti-DDoS region blocking configuration details

Used by actions: DescribeListDDoSGeoIPBlockConfig.

Name	Type	Description
GeoIPBlockConfig	DDoSGeoIPBlockConfig	Anti-DDoS region blocking configuration
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured

DDoSSpeedLimitConfig

Anti-DDoS access rate limit configuration

Used by actions: CreateDDoSSpeedLimitConfig, DeleteDDoSSpeedLimitConfig, DescribeListDDoSSpeedLimitConfig, ModifyDDoSSpeedLimitConfig.

Name	Type	Required	Description
Mode	Integer	Yes	Rate limit mode. Valid values: `1` : rate limit based on the real server IP `2` : rate limit based on the destination port]
SpeedValues	Array of SpeedValue	Yes	Rate limit value. This field contains at least one valid rate limit type. Note that only up to one value of each type is supported.
DstPortScopes	Array of PortSegment	No	This field is replaced with a new field DstPortList.
Id	String	No	

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ProtocolList	String	No	IP protocol number. Valid values: `ALL` : all protocols `TCP` : TCP protocol `UDP` : UDP protocol `SMP` : SMP protocol `1;2-100` : user-defined protocol with up to 8 ranges] Note: For custom protocol ranges, only protocol number is supported. Multiple ranges are separated by ";". If the value is `ALL` , any other protocol or protocol number should be excluded.
DstPortList	String	No	Port range list, which contains up to 8 ranges. Use ";" to separate multiple ports and "–" to indicate a range of ports, as described in the following formats: `0-65535` , `80;443;1000-2000` .

DDoSSpeedLimitConfigRelation

DDoS access rate limit configuration details

Used by actions: DescribeListDDoSSpeedLimitConfig.

Name	Type	Description
SpeedLimitConfig	DDoSSpeedLimitConfig	Anti-DDoS access rate limit configuration
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured

DefaultAlarmThreshold

Default alarm threshold configuration of an IP

Used by actions: CreateDefaultAlarmThreshold, DescribeDefaultAlarmThreshold.

Name	Type	Required	Description
AlarmType	Integer	No	Alarm threshold type. Valid values: `1` : alarm threshold for inbound traffic `2` : alarm threshold for cleansing attack traffic]

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AlarmThreshold	Integer	No	Alarm threshold (Mbps). The value should be greater than or equal to 0. Note that the alarm threshold configuration will be removed if you pass the parameter for input and set it to 0.

EipAddressPackRelation

Details of the Anycast package

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
IpCount	Integer	Number of package IPs
AutoRenewFlag	Integer	Auto-renewal flag
CurDeadline	Timestamp	Current expiration time

EipAddressRelation

EIP association details

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
EipAddressRegion	String	Region of the Anti-DDoS instance bound to the EIP. For example, hk indicates Hong Kong. Note: This field may return `null`, indicating that no valid value can be obtained.
EipBoundRscIns	String	ID of the bound resource. For example, an ID may be bound to an CVM instance. Note: This is field may return `null`, indicating that no valid value can be obtained.
EipBoundRscEni	String	ID of the bound ENI Note: This field may return `null`, indicating that no valid value can be obtained.
EipBoundRscVip	String	Private IP of the bound resource Note: This field may return `null`, indicating that no valid value can be obtained.

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ModifyTime	String	Modification time Note: This field may return `null`, indicating that no valid value can be obtained.

EipProductInfo

Details of the cloud product used by the EIP

Used by actions: DescribeListBGPInstances.

Name	Type	Required	Description
Ip	String	Yes	IP address
BizType	String	Yes	Cloud product category. Valid values: `public`: CVM `bm`: BM `eni`: ENI `vpngw`: VPN gateway `natgw`: NAT gateway `waf`: WAF `fpc`: financial products `gaap`: GAAP `other`: hosted IP]
DeviceType	String	Yes	Cloud sub-product category. Valid values: `cvm` (CVM), `lb` (Load balancer), `eni` (ENI), `vpngw` (VPN gateway), `natgw` (NAT gateway), `waf` (WAF), `fpc` (financial products), `gaap` (GAAP), `eip` (BM EIP) and `other` (hosted IP).
InstanceId	String	Yes	Cloud instance ID of the IP. This field InstanceId will be `eni-*` if the instance ID is bound to an ENI IP; `none` if there is no instance ID to bind to a hosted IP.

ForwardListener

Forwarding listener

Used by actions: CreateWaterPrintConfig.

Name	Type	Required	Description

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FrontendPort	Integer	Yes	The starting port for listener forwarding. Value range: 1 to 65535.

ForwardProtocol	String	Yes	Forwarding protocol. Valid values:
			`TCP`
			`UDP`
			]

FrontendPortEnd	Integer	No	The ending port for listener forwarding. Value range: 1 to 65535.

HttpStatusMap

Aggregated data on the HTTP status codes of business traffic

Used by actions: DescribeBizHttpStatus.

Name	Type	Description
SourceHttp2xx	Array of Float	HTTP 2xx Forwarding status code
Http5xx	Array of Float	HTTP 5xx Status code
SourceHttp5xx	Array of Float	HTTP 5xx Forwarding status code
SourceHttp404	Array of Float	HTTP 404 Forwarding status code
Http4xx	Array of Float	HTTP 4xx Status code
SourceHttp4xx	Array of Float	HTTP 4xx Forwarding status code
Http2xx	Array of Float	HTTP 2xx Status code
Http404	Array of Float	HTTP 404 Status code
SourceHttp3xx	Array of Float	HTTP 3xx Forwarding status code
Http3xx	Array of Float	HTTP 3xx Status code

IPAlarmThresholdRelation

Single IP alarm threshold configuration

Used by actions: CreateIPAlarmThresholdConfig, DescribeListIPAlarmConfig.

Name	Type	Required	Description

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AlarmType	Integer	Yes	Alarm threshold type. Valid values: `1` : alarm threshold for inbound traffic `2` : alarm threshold for cleansing attack traffic]
AlarmThreshold	Integer	Yes	Alarm threshold (Mbps). The value should be greater than or equal to 0. Note that the alarm threshold configuration will be removed if you pass the parameter for input and set it to 0.
InstanceDetailList	Array of InstanceRelation	Yes	Anti-DDoS instance configured

IPLineInfo

IP line information

Used by actions: DescribeListSchedulingDomain.

Name	Type	Required	Description
Type	String	Yes	IP line type. Valid values: `bgp` : BGP IP `ctcc` : CTCC IP `cucc` : CUCC IP `cmcc` : CMCC IP `abroad` : IP outside the Chinese mainland]
Eip	String	Yes	
Cname	String	No	CNAME of the instance
ResourceFlag	Integer	No	Flag of the instance. `0` : Anti-DDoS Pro instance; `1` : Anti-DDoS Advanced instance; `2` : Non-Anti-DDoS Advanced instance.

InsL7Rules

Layer-7 instance rules

Used by actions: CreateL7RuleCerts, DescribeL7RulesBySSLCertId.

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Name	Type	Required	Description
Status	Integer	Yes	Rules can only be modified when the status is `0`, `2`, or `8`. Rule status. Values: `0` (Normal), `1` (Being configured), `2` (Configuration failed), `3` (Being deleted), `5` (Failed to be deleted), `6` (Pending add), `7` (Pending delete), `8` (Pending certificate upload), `9` (Associated resource not exist), `10` (Pending modify), `11` (Being modified).
Domain	String	Yes	Domain name
Protocol	String	Yes	Protocol
InsId	String	Yes	Instance ID
AppId	String	Yes	User App ID
VirtualPort	String	Yes	High-defense port
SSLId	String	Yes	Certificate ID

InstanceRelation

Instance IP information

Used by actions: CreateIPAlarmThresholdConfig, DescribeListBGPIPInstances, DescribeListBGPInstances, DescribeListBlackWhiteIpList, DescribeListDDoSAI, DescribeListDDoSGeoIPBlockConfig, DescribeListDDoSSpeedLimitConfig, DescribeListIPAlarmConfig, DescribeListListener, DescribeListPacketFilterConfig, DescribeListProtectThresholdConfig, DescribeListProtocolBlockConfig, DescribeListWaterPrintConfig.

Name	Type	Required	Description
EipList	Array of String	Yes	Instance IP
InstanceId	String	Yes	Instance ID

IpSegment

Structure of IP range

Used by actions: CreateCcBlackWhiteIpList, ModifyCcBlackWhiteIpList.

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Name	Type	Required	Description
Ip	String	Yes	IP address
Mask	Integer	Yes	IP mask. For a 32-bit IP address, enter `0` .

KeyValue

Status of the IP

Used by actions: DescribeBasicDeviceStatus, DescribeNewL7RulesErrHealth.

Name	Type	Description
Key	String	IP
Value	String	Status of the IP. Values: `1` (blocked); `2` (normal); `3` (being attacked)

L4RuleSource

List of layer-4 forwarding rules

Used by actions: CreateNewL7Rules, DescribeNewL7Rules, ModifyNewDomainRules.

Name	Type	Required	Description
Source	String	Yes	IP or domain name for forwarding.
Weight	Integer	Yes	Weight. Value range: [0,100].
Port	Integer	No	8000 Note: this field may return `null` , indicating that no valid values can be obtained.
Backup	Integer	No	Secondary origin server. `1` : secondary origin server; `0` : general origin server. Note: This field may return `null` , indicating that no valid values can be obtained.

L7RuleEntry

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Layer-7 forwarding rule.

Used by actions: CreateNewL7Rules.

Name	Type	Required	Description
KeepTime	Integer	Yes	Session persistence duration, in seconds.
Domain	String	Yes	Forwarding domain name.
Protocol	String	Yes	Forwarding protocol. Valid values: `http` and `https`.
SourceType	Integer	Yes	Forwarding method. Valid values: `1` (by domain name); `2` (by IP).
LbType	Integer	Yes	Load balancing method. Valid value: `1` (weighed polling).
SourceList	Array of L4RuleSource	Yes	List of origins
KeepEnable	Integer	Yes	Whether session persistence is enabled. Valid values: `0` (disabled) and `1` (enabled).
Status	Integer	No	Rule status. Valid values: `0` (the rule was successfully configured), `1` (configuring the rule), `2` (rule configuration failed), `3` (deleting the rule), `5` (failed to delete rule), `6` (rule awaiting configuration), `7` (rule awaiting deletion), and `8` (rule awaiting certificate configuration).
RuleId	String	No	Rule ID. This field is not required for adding a rule, but is required for modifying or deleting a rule.
CCThreshold	Integer	No	CC protection threshold based on HTTPS.
PrivateKey	String	No	[Disused] When the certificate is an external certificate, the certificate key should be provided here.
CCEnable	Integer	No	CC protection status based on HTTPS. Valid values: `0` (disabled) and `1` (enabled).
HttpsToHttpEnable	Integer	No	Whether to enable **Forward HTTPS requests via HTTP**. Valid values: `0` (disable) and `1` (enable). It defaults to `0`.

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			Note: This field may return null, indicating that no valid values can be obtained.
CertType	Integer	No	Certificate source. When the forwarding protocol is HTTPS, this field must be set to `2` (Tencent Cloud managed certificate), and for HTTP protocol, it can be set to `0` .
Cert	String	No	[Disused] When the certificate is an external certificate, the certificate content should be provided here.
CCLevel	String	No	CC protection level based on HTTPS.
RuleName	String	No	Rule description.
CCStatus	Integer	No	CC protection status. Valid values: `0` (disabled) and `1` (enabled).
VirtualPort	Integer	No	Access port number. Note: This field may return null, indicating that no valid values can be obtained.
SSLId	String	No	When the certificate is managed by Tencent Cloud, this field must be set to the ID of the managed certificate.
Id	String	No	ID of the rule
CCAIEnable	Integer	No	Intelligent CC protection status. Valid values: `0` (disabled) and `1` (enabled).

L7RuleHealth

Health check parameters of layer-7 forwarding rules

Used by actions: DescribeNewL7Rules.

Name	Type	Required	Description
Status	Integer	Yes	Configuration status. Values: `0` (normal), `1` (configuration in progress) and `2` (configuration failed).
Enable	Integer	Yes	Switch. Values: `1` : Enable; `0` : Disable.
RuleId	String	Yes	ID of the rule
Url	String	Yes	HTTP request path. The default value is /.

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Interval	Integer	Yes	Health check interval. Unit: second.
AliveNum	Integer	Yes	Healthy threshold, which specifies the number of consecutive successful health checks.
KickNum	Integer	Yes	Unhealthy threshold, which specifies the number of consecutive failed health checks.
Method	String	Yes	HTTP request method. Values: `HEAD` and `GET`.
StatusCode	Integer	Yes	Status code that signifies a normal state. Values: `1` (1xx), `2` (2xx), `4` (3xx), `8` (4xx), and `16` (5xx).
ProtocolFlag	Integer	No	Whether to deploy both HTTP and HTTPS health check rules
PassiveEnable	Integer	No	Enables passive detection. Values: `1` (enable) and `0` (disable).
BlockInter	Integer	No	Blocking period in the passive detection configuration
FailedCountInter	Integer	No	Time interval between passive detections
FailedThreshold	Integer	No	Unhealthy threshold in the passive detection configuration
PassiveStatusCode	Integer	No	Status code that signals that the passive detection considers the status normal. Values: `1` (1xx), `2` (2xx), `4` (3xx), `8` (4xx), and `16` (5xx).

Layer4Rule

Layer-4 forwarding rule

Used by actions: DescribeListListener.

Name	Type	Required	Description
BackendPort	Integer	Yes	Real server port. Value range: 1–65535.
FrontendPort	Integer	Yes	Forwarding port. Value range: 1–65535.
Protocol	String	Yes	Forwarding rule. Valid values: TCP UDP]

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RealServers	Array of SourceServer	Yes	List of real servers
InstanceDetails	Array of InstanceRelation	Yes	Information of the Anti-DDoS instance
InstanceDetailRule	Array of RuleInstanceRelation	No	Information of the Anti-DDoS instance configured

Layer7Rule

Layer-7 forwarding rule

Used by actions: DescribeListListener.

Name	Type	Required	Description
Domain	String	Yes	Domain name
ProxyTypeList	Array of ProxyTypeInfo	Yes	List of forwarding types
RealServers	Array of SourceServer	Yes	List of real servers
InstanceDetails	Array of InstanceRelation	Yes	Information of the Anti-DDoS instance
InstanceDetailRule	Array of RuleInstanceRelation	No	Information of the Anti-DDoS instance configured

ListenerCcThreholdConfig

CC protection thresholds of the domain name and protocol

Used by actions: DescribeListProtectThresholdConfig.

Name	Type	Description
Domain	String	Domain name
Protocol	String	Protocol. Value: `https`.
CCEnable	Integer	Status. Valid values: `0` (disabled), `1` (enabled).
CCThreshold	Integer	CC protection threshold

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NewL7RuleEntry

Layer-7 rule.

Used by actions: DescribeNewL7Rules, ModifyNewDomainRules.

Name	Type	Required	Description
Protocol	String	Yes	Forwarding protocol. Valid values: `http` and `https`.
Domain	String	Yes	Forwarding domain name.
LbType	Integer	Yes	Load balancing method. Valid value: `1` (weighed polling).
KeepEnable	Integer	Yes	Whether session persistence is enabled. Valid values: `0` (disabled) and `1` (enabled).
KeepTime	Integer	Yes	Session persistence duration, in seconds.
SourceType	Integer	Yes	Forwarding method. Valid values: `1` (by domain name); `2` (by IP).
SourceList	Array of L4RuleSource	Yes	List of origins
Region	Integer	No	Region code.
Id	String	No	Resource ID.
Ip	String	No	Anti-DDoS instance IP address.
RuleId	String	No	Rule ID. This field is not required for adding a rule, but is required for modifying or deleting a rule.
RuleName	String	No	Rule description.
CertType	Integer	No	Certificate source. When the forwarding protocol is HTTPS, this field must be set to `2` (Tencent Cloud managed certificate), and for HTTP protocol, it can be set to `0`.
SSLId	String	No	When the certificate is managed by Tencent Cloud, this field must be set to the ID of the managed certificate.
Cert	String	No	[Disused] When the certificate is an external certificate,

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			the certificate content should be provided here.
PrivateKey	String	No	[Disused] When the certificate is an external certificate, the certificate key should be provided here.
Status	Integer	No	Rule status. Valid values: `0` (the rule was successfully configured), `1` (configuring the rule), `2` (rule configuration failed), `3` (deleting the rule), `5` (failed to delete rule), `6` (rule awaiting configuration), `7` (rule awaiting deletion), and `8` (rule awaiting certificate configuration).
CCStatus	Integer	No	CC protection status. Valid values: `0` (disabled) and `1` (enabled).
CCEnable	Integer	No	CC protection status based on HTTPS. Valid values: `0` (disabled) and `1` (enabled).
CCThreshold	Integer	No	CC protection threshold based on HTTPS.
CCLevel	String	No	CC protection level based on HTTPS.
ModifyTime	Timestamp	No	Modification time.
HttpsToHttpEnable	Integer	No	Whether to enable **Forward HTTPS requests via HTTP**. Valid values: `0` (disabled) and `1` (enabled). It defaults to `0` .
VirtualPort	Integer	No	Access port number. Note: this field may return `null` , indicating that no valid values can be obtained.
RewriteHttps	Integer	No	Specifies whether to forcibly redirect HTTP to HTTPS. `1` : Enable. `0` : Disable.
ErrCode	Integer	No	Returns an error code when the rule configuration fails (only valid when `Status=2`). `1001` : The certificate does not exist. `1002` : Failed to obtain the certificate. `1003` : Failed to upload the certificate. `1004` : The certificate has expired.
Version	Integer	No	Version Note: This field may return null, indicating that no valid values can be obtained.

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OverviewDDoSEvent

DDoS events recorded

Used by actions: DescribeOverviewDDoSEventList.

Name	Type	Description
Id	String	Event ID
Vip	String	IP
StartTime	String	Start time
EndTime	String	End time
AttackType	String	Attack type
AttackStatus	Integer	Attack status. `0` : The attack is ongoing; `1` : The attack ends.
Mbps	Integer	Attack traffic, in Mbps
Pps	Integer	Attack packets, in PPS
Business	String	Anti-DDoS service type. `bgp-multip` : Anti-DDoS Pro; `bgpip` : Anti-DDoS Advanced; `basic` : Anti-DDoS Basic.
InstanceId	String	Anti-DDoS instance ID
InstanceName	String	Anti-DDoS instance name

PackInfo

Package information

Used by actions: DescribeListBGPIPInstances, DescribeListBGPInstances.

Name	Type	Required	Description
PackType	String	Yes	Package type. Valid values: `staticpack` : non-BGP package `insurance` : guarantee package]
PackId	String	Yes	Package ID

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PacketFilterConfig

Feature filtering configuration

Used by actions: CreatePacketFilterConfig, DeletePacketFilterConfig, DescribeListPacketFilterConfig, ModifyPacketFilterConfig.

Name	Type	Required	Description
Protocol	String	Yes	Protocol. Valid values: `tcp` , `udp` , `icmp` , `all` .
SportStart	Integer	Yes	Start source port. Value range: 0–65535.
SportEnd	Integer	Yes	End source port. Value range: 0–65535. The value also should be greater than or equal to that of the start source port.
DportStart	Integer	Yes	Start destination port
DportEnd	Integer	Yes	End destination port. Value range: 1–65535. The value also should be greater than or equal to that of the start source port.
PktlenMin	Integer	Yes	Minimum message length. Value range: 1–1500.
PktlenMax	Integer	Yes	Maximum message length. Value range: 1–1500. The value also should be greater than or equal to that of the minimum message length.
Action	String	Yes	Action. Valid values: `drop` : discards the request. `transmit` : allows the request. `drop_black` : discards the request and adds the IP to blocklist. `drop_rst` : blocks the request. `drop_black_rst` : blocks the request and adds the IP to blocklist. `forward` : continues protection.]
MatchBegin	String	No	Detection location: `begin_l3` : IP header `begin_l4` : TCP/UDP header `begin_l5` : T load `no_match` : no match]
MatchType	String	No	Detection type: `sunday` : keyword

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			`pcre` : regular expression]
Str	String	No	Detection value. Should be in key string or regular expression. When the `MatchType` is `sunday` , enter a string or a string in hexadecimal byte code representation. For example, a string "123" corresponds to the hexadecimal byte code "\x313233". When the `MatchType` is `pcre` , enter a regular expression.]
Depth	Integer	No	Detection depth starting from the detection position. Value range: [0, 1500].
Offset	Integer	No	Offset starting from the detection position. Value range: [0, Depth].
IsNot	Integer	No	Whether the detection value is included: `0` : included `1` : excluded]
MatchLogic	String	No	Relationship between the first and second detection conditions: `and` : under both the first and second detection conditions `none` : under only the first detection condition]
MatchBegin2	String	No	The second detection position: `begin_l5` : load `no_match` : no match]
MatchType2	String	No	The second detection type: `sunday` : keyword `pcre` : regular expression]
Str2	String	No	The second detection value. Should be in key string or regular expression. When the `MatchType` is `sunday` , enter a string or a string in hexadecimal byte code representation. For example, a string "123" corresponds to the hexadecimal byte code "\x313233". When the `MatchType` is `pcre` , enter a regular expression.]
Depth2	Integer	No	Detection depth starting from the second detection position. Value range: [0, 1500].
Offset2	Integer	No	Offset starting from the second detection position. Value range: [0,

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			Depth2].
IsNot2	Integer	No	Whether the second detection value is included: `0` : included `1` : excluded]
Id	String	No	A rule ID is generated after a feature filtering configuration is added successfully. Leave this field empty when adding a new feature filtering configuration.
PktLenGT	Integer	No	Byte threshold of the packet. Packets larger than the specified size are not returned. It must be an integer larger than 1.

PacketFilterRelation

Feature filtering information

Used by actions: DescribeListPacketFilterConfig.

Name	Type	Description
PacketFilterConfig	PacketFilterConfig	Feature filtering configuration
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured
ModifyTime	String	Modification time

PortSegment

Port range information

Used by actions: CreateDDoSSpeedLimitConfig, DeleteDDoSSpeedLimitConfig, ModifyDDoSSpeedLimitConfig.

Name	Type	Required	Description
BeginPort	Integer	Yes	Start port. Value range: 1–65535.
EndPort	Integer	Yes	End port. The value should be in the range 1–65535 and cannot be less than that of the start port.

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ProtectThresholdRelation

Protection threshold configuration information

Used by actions: DescribeListProtectThresholdConfig.

Name	Type	Description
DDoSLevel	String	DDoS protection level: `low` : loose protection `middle` : medium protection `high` : strict protection]
DDoSThreshold	Integer	DDoS cleansing threshold (in Mbps)
DDoSAI	String	DDoS AI protection switch: `on` : enabled `off` : disabled]
CCEnable	Integer	CC cleansing switch `0` : disabled `1` : enabled]
CCThreshold	Integer	CC cleansing threshold (in QPS)
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured
ListenerCcThresholdList	Array of ListenerCcThreholdConfig	Domain name and protocol protection thresholds
SynFloodThreshold	Integer	SYN traffic threshold Note: This field may return null, indicating that no valid values can be obtained.
SynFloodPktThreshold	Integer	SYN packet threshold Note: This field may return null, indicating that no valid values can be obtained.
UdpFloodThreshold	Integer	UDP traffic threshold Note: This field may return null, indicating that no valid values can be obtained.
UdpFloodPktThreshold	Integer	UDP packet threshold Note: This field may return null, indicating that no

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		valid values can be obtained.
AckFloodThreshold	Integer	ACK traffic threshold Note: This field may return null, indicating that no valid values can be obtained.
AckFloodPktThreshold	Integer	ACK packet threshold Note: This field may return null, indicating that no valid values can be obtained.
SynAckFloodThreshold	Integer	SYNACK traffic threshold Note: This field may return null, indicating that no valid values can be obtained.
SynAckFloodPktThreshold	Integer	SYNACK packet threshold Note: This field may return null, indicating that no valid values can be obtained.
RstFloodThreshold	Integer	RST traffic threshold Note: This field may return null, indicating that no valid values can be obtained.
RstFloodPktThreshold	Integer	RST packet threshold Note: This field may return null, indicating that no valid values can be obtained.

ProtocolBlockConfig

Protocol blocking configuration

Used by actions: CreateProtocolBlockConfig, DescribeListProtocolBlockConfig.

Name	Type	Required	Description
DropTcp	Integer	Yes	TCP blocking. Valid values: `0` (disabled), `1` (enabled).
DropUdp	Integer	Yes	UDP blocking. Valid values: `0` (disabled), `1` (enabled).
DropIcmp	Integer	Yes	ICMP blocking. Valid values: `0` (disabled), `1` (enabled).
DropOther	Integer	Yes	Other protocol blocking. Valid values: `0` (disabled), `1` (enabled).

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CheckExceptNullConnect	Integer	Yes	Null connection protection. Valid values: `0` (disabled), `1` (enabled).
PingOfDeath	Integer	No	PoD protection. Values: `0` (disable), `1` (enable).
TearDrop	Integer	No	Teardrop protection. Values: `0` (disable), `1` (enable).

ProtocolBlockRelation

Protocol blocking information

Used by actions: DescribeListProtocolBlockConfig.

Name	Type	Description
ProtocolBlockConfig	ProtocolBlockConfig	Protocol blocking configuration
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured

ProtocolPort

"Protocol" and "Port" parameters

Used by actions: DescribeBizHttpStatus, DescribeBizTrend.

Name	Type	Required	Description
Protocol	String	Yes	Protocol. Valid values: `tcp` , `udp`
Port	Integer	Yes	Port

ProxyTypeInfo

Forwarding type

Used by actions: DescribeListListener.

Name	Type	Required	Description
ProxyPorts	Array of Integer	Yes	List of forwarding listening ports. Value range: 1–65535.

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ProxyType	String	Yes	Forwarding protocol: `http` : HTTP protocol `https` : HTTPS protocol]

RegionInfo

Region information.

Used by actions: DescribeListBGPIPInstances, DescribeListBGPInstances.

Name	Type	Required	Description
Region	String	Yes	Region name, such as `ap-guangzhou`

RuleInstanceRelation

Information of the Anti-DDoS instance using layer-4/7 forwarding rules

Used by actions: DescribeListListener.

Name	Type	Description
EipList	Array of String	Instance IP
InstanceId	String	Instance ID
Cname	String	Instance CNAME

SchedulingDomainInfo

Scheduling domain name details

Used by actions: DescribeListSchedulingDomain.

Name	Type	Description
Domain	String	Scheduling domain name
LineIPList	Array of IPLineInfo	List of line IPs

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Method	String	Scheduling mode. Valid value: `priority` (priority scheduling).
TTL	Integer	TTL value recorded from the scheduling domain name resolution
Status	Integer	Running status. Valid values: `0` : not running `1` : running `2` : abnormal]
CreatedTime	Timestamp	Creation time
ModifyTime	Timestamp	Last modification time
UsrDomainName	String	Domain name Note: This field may return `null` , indicating that no valid value can be obtained.

SourceServer

Real server details

Used by actions: DescribeListListener.

Name	Type	Required	Description
RealServer	String	Yes	Types of the real server address, such as IP or domain name.
RsType	Integer	Yes	Types of the real server address: `1` : domain name `2` : IP]
Weight	Integer	Yes	Forward weight of the real server. Value range: 1–100.

SpeedValue

Rate limit value types, such as pps and bps.

Used by actions: CreateDDoSSpeedLimitConfig, DeleteDDoSSpeedLimitConfig, ModifyDDoSSpeedLimitConfig.

Name	Type	Required	Description

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Type	Integer	Yes	Rate limit value types: `1` : packets per second (pps) `2` : bits per second (bps)]
Value	Integer	Yes	Value

StaticPackRelation

Non-BGP package details

Used by actions: DescribeListBGPIPInstances.

Name	Type	Description
ProtectBandwidth	Integer	Base protection bandwidth Note: This field may return `null` , indicating that no valid value can be obtained.
NormalBandwidth	Integer	Application bandwidth Note: This field may return `null` , indicating that no valid value can be obtained.
ForwardRulesLimit	Integer	Forwarding rules Note: This field may return `null` , indicating that no valid value can be obtained.
AutoRenewFlag	Integer	Auto-renewal flag Note: This field may return `null` , indicating that no valid value can be obtained.
CurDeadline	String	Expiration time Note: This field may return `null` , indicating that no valid value can be obtained.

SuccessCode

Return code, only used to report success.

Used by actions: CreateBoundIP, CreateL7RuleCerts, CreateNewL7Rules, ModifyNewDomainRules.

Name	Type	Description

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Message	String	Description
Code	String	Success/Error code

TagFilter

Tag type

Used by actions: DescribeListBGPIPInstances, DescribeListBGPInstances.

Name	Type	Required	Description
TagKey	String	Yes	Tag key
TagValue	Array of String	Yes	Tag value

TagInfo

Tag information, which is used to return the tag of the associated instance

Used by actions: DescribeListBGPIPInstances, DescribeListBGPInstances.

Name	Type	Description
TagKey	String	Tag key
TagValue	String	Tag value

WaterPrintConfig

Watermark configuration

Used by actions: CreateWaterPrintConfig, DescribeListWaterPrintConfig.

Name	Type	Required	Description
Offset	Integer	Yes	Watermark offset. Value range: [0, 100).
OpenStatus	Integer	Yes	Start status. Valid values: `0` : manual start

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			`1` : instant start]
Listeners	Array of ForwardListener	Yes	List of forwarding listeners configured
Keys	Array of WaterPrintKey	No	A list of watermark keys is generated after a watermark is added successfully. Each watermark can have up to 2 keys. When there is only one valid key, it cannot be deleted.
Verify	String	No	Watermark checking mode, which can be: `checkall` : normal mode `shortfpcheckall` : compact mode]
CloudSdkProxy	Integer	No	Whether to enable proxy. Values: `1` (Enable proxy and ignore IP+port verification), `0` (Do not enable proxy and IP+port verification is required) Note: This field may return null, indicating that no valid values can be obtained.

WaterPrintKey

Created watermark key

Used by actions: CreateWaterPrintConfig.

Name	Type	Required	Description
KeyVersion	String	Yes	Key version
KeyContent	String	Yes	Key content
KeyId	String	Yes	Key ID
KeyOpenStatus	Integer	Yes	Key status. Valid value: `1` (enabled).
CreateTime	Timestamp	Yes	Key creation time

WaterPrintRelation

Watermark configuration details

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Used by actions: DescribeListWaterPrintConfig.

Name	Type	Description
WaterPrintConfig	WaterPrintConfig	Watermark configuration
InstanceDetailList	Array of InstanceRelation	Anti-DDoS instance configured

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Error Codes

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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 si
gnature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	`Authorization` in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

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	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.
InternalError	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

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	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.
OperationDenied	Operation denied.
ResourcesSoldOut	The resources have been sold out.

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