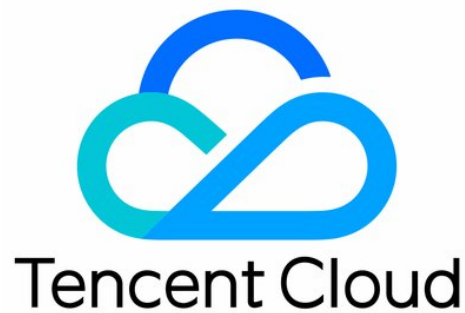


# **Cloud Virtual Machine**

## **API Documentation**

### **Product Introduction**



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# API Documentation

## Introduction

Last updated : 2018-10-12 16:02:16

Welcome to the Cloud Virtual Machine.

The Cloud Virtual Machine (CVM), which runs at the Tencent IDC, provides auto scaling computing services and can be used to build and host software systems based on your business needs.

The CVM solution delivers a flexible set of computing, storage and network resources. You can use the APIs described in this document and refer to the examples to create, terminate and restart CVMs, and adjust bandwidth for them. For a full list of the supported operations, please see the [API Overview](#).

Before using these APIs, please make sure that you have a thorough understanding of [CVM Overview](#).

### Note:

- All CVM APIs under this module have been upgraded to API 3.0. All new CVM-related features are added to the APIs under this module. We **recommend that new users use the upgraded API 3.0**.
- The features of old APIs remain available. For more information, please see [CVM API Overview \(old\)](#).

## Glossary

The common terms involved in this document are as follows:

Term	Full Name	Meaning	Description
Instance	Instance	<a href="#">Instance</a>	A cloud virtual machine.
Region	Region	<a href="#">Region</a>	A region where resources reside. Each region contains multiple availability zones.
Zone	Zone	<a href="#">Availability zone</a>	Refers to Tencent Cloud's physical IDCs whose power and network are independent from each other within the same <a href="#">region</a> . They are designed to ensure that the failures within an availability zone can be isolated without spreading to and affecting other zones so that users' businesses can provide continuous online services.

Term	Full Name	Meaning	Description
Image	Image	<a href="#">Image</a>	A copy of the software environment on a CVM instance, generally including operation systems and installed software. It is used to create an instance.
SecurityGroup	Security Group	<a href="#">Security Group</a>	A virtual firewall that allows state-based packet filtering. As an important network security isolation tool, it is used to control the network access of CVM instances.
EIP	Elastic IP	<a href="#">EIP</a>	A type of public IP. Unlike an ordinary public IP, an EIP belongs to a user account rather than an instance. The mapping relationship between an instance and a public IP can be changed at any time.
None	None	Prepaid	A billing method. For more information, please see <a href="#">Billing Methods</a> .
None	None	Postpaid	A billing method. For more information, please see <a href="#">Billing Methods</a> .

## Definitions of input and response parameters

- Limit and Offset

These parameters are used to control paging. "Limit" indicates the maximum number of entries returned at a time, and "Offset" is the offset value. For the results in a list format, if the number of entries exceeds the "Limit" value, the number of returned values will be limited to the "Limit" value.

For example, if `Offset=0&Limit=20`, the 0st to 20th entries are returned; if `Offset=20&Limit=20`, the 20th to 40th entries are returned; if `Offset=40&Limit=20`, the 40th to 60th entries are returned, and so on.

- Ids.N

Format for inputting multiple parameters at a time. Multiple parameters in such a format can be input at the same time. For example:

`Ids.0=10.12.243.21&Ids.1=10.11.243.21&Ids.2=10.12.243.21&Ids.3=10.13.243.21...`

And so on (with subscripts starting with 0).

## Getting Started with API

The following introduces how to use CVM APIs in some typical scenarios:

1. Create an postpaid instance by using the API [Create Instances](#) and providing information like availability zone ID, image ID, model and other parameters.
2. Upgrade the configuration of an instance using the API [Adjust Instance Configuration](#). You can also change the CPU and memory by adjusting instance models.
3. Shut down an instance using the API [Shut Down Instances](#).
4. If you do not want to use an instance any more, you can terminate it using the API [Return Instances](#). No fee will apply once the instance is returned.

## Use Limits

- The CVMs created via the API are subject to the number limit described in the [Restrictions on CVM Instance Purchase](#), and share the quota with those created on the official website.
- For more information on specific limits, please see the documents for appropriate APIs or products.

# API Category

Last updated : 2018-10-12 16:02:17

## Region-related APIs

API Name	Feature
DescribeRegions	Queries a region list
DescribeZones	Queries the list of availability zones

## Instance-related APIs

API Name	Feature
RunInstances	Creates an instance
InquiryPriceRunInstances	Inquires the price of creating an instance
StartInstances	Launches an instance
StopInstances	Shuts down an instance
RebootInstances	Restarts an instance
ResetInstance	Reinstalls an instance
InquiryPriceResetInstance	Inquires the price of installing an instance
ResetInstancesPassword	Resets the instance password
TerminateInstances	Returns an instance
DescribeInstances	Views the list of instances
DescribeInstancesStatus	Views the list of instance statuses
ModifyInstancesAttribute	Modifies the attributes of an instance
ModifyInstancesProject	Modifies the project to which an instance belongs
ResetInstancesType	Adjusts instance configurations
InquiryPriceResetInstancesType	Inquires the price of adjusting instance configuration



API Name	Feature
ResizeInstanceDisks	Expand the disk capacity of an instance
InquiryPriceResizeInstanceDisks	Inquires the price of expanding the instance disk capacity
DescribeInstanceFamilyConfigs	Queries the information on a supported instance model family
DescribeInstanceTypeConfigs	Queries the list of instance models
RenewInstances	Renews an instance
InquiryPriceRenewInstances	Inquires the price of renewing an instance
ModifyInstancesRenewFlag	Modifies the renewal flag of an instance
DescribeInstanceInternetBandwidthConfigs	Query the bandwidth configuration of an instance
DescribeInternetChargeTypeConfigs	Queries the network billing type
ResetInstancesInternetMaxBandwidth	Adjusts the bandwidth cap of an instance
InquiryPriceResetInstancesInternetMaxBandwidth	Inquires the price of adjusting the bandwidth cap of an instance
DescribeZoneInstanceConfigInfos	Obtains the configuration of a model in an availability zone
CreateDisasterRecoverGroup	Creates a spread placement group
DeleteDisasterRecoverGroups	Deletes a spread placement group
DescribeDisasterRecoverGroupQuota	Queries the quota of placement groups
DescribeDisasterRecoverGroups	Queries the information of a spread placement group
ModifyDisasterRecoverGroupAttribute	Modifies the attributes of a spread placement group
DescribeInstanceVncUrl	Queries the link to the instance management client
InquiryPriceModifyInstancesChargeType	Inquires the price of modifying the billing method of an instance
ModifyInstancesChargeType	Modifies the billing method of an instance

## Image-related APIs

API Name	Feature
CreateImage	Creates an image
DeleteImages	Deletes an image
ModifyImageAttribute	Modifies the attributes of an image
DescribeImages	View the list of images
ImportImage	Imports an external image
DescribeImportImageOs	Queries the list of operating systems supported by the images exported externally
DescribeImageSharePermission	Views image sharing information
ModifyImageSharePermission	Modifies image sharing information
SyncImages	Syncs an image
DescribeImageQuota	Queries the image quota limit

## Key-related APIs

API Name	Feature
CreateKeyPair	Creates a key pair
DeleteKeyPairs	Deletes a key pair
ModifyKeyPairAttribute	Modifies the attributes of a key pair
AssociateInstancesKeyPairs	Binds a key pair
DisassociateInstancesKeyPairs	Unbinds a key pair
DescribeKeyPairs	Queries the list of key pairs
ImportKeyPair	Imports a key pair

## CDH-related APIs

API Name	Feature
AllocateHosts	Creates a CDH instance

---

API Name	Feature
DescribeHosts	Views the list of CDH instances
ModifyHostsAttribute	Modifies the attributes of a CDH instance
RenewHosts	Renews a CDH instance

# Making API Requests

## Request Structure

Last updated : 2018-10-12 16:02:18

### 1. Service Address

Tencent Cloud APIs are divided into different function modules, with each module accessed using a different domain name. You can access these APIs from a closest region or a specified region. For example, the access domain name of a nearest CVM is `cvm.tencentcloudapi.com`, and that of the Guangzhou region is `cvm.ap-guangzhou.tencentcloudapi.com`.

The list of supported domain names:

Region	Domain Name
The nearest region (recommended)	*.tencentcloudapi.com
South China (Guangzhou)	*.ap-guangzhou.tencentcloudapi.com
East China (Shanghai)	*.ap-shanghai.tencentcloudapi.com
North China (Beijing)	*.ap-beijing.tencentcloudapi.com
Southwest (Chengdu)	*.ap-chengdu.tencentcloudapi.com
Southwest (Chongqing)	*.ap-chongqing.tencentcloudapi.com
Southeast Asia (Seoul)	*.ap-seoul.tencentcloudapi.com
East China (Shanghai Finance)	*.ap-shanghai-fsi.tencentcloudapi.com
South China (Shenzhen Finance)	*.ap-shenzhen-fsi.tencentcloudapi.com
Southeast Asia (Singapore)	*.ap-singapore.tencentcloudapi.com
Southeast Asia (India)	*.ap-mumbai.tencentcloudapi.com
Western U.S. (Silicon Valley)	*.na-siliconvalley.tencentcloudapi.com
Eastern U.S. (Ashburn)	*.na-ashburn.tencentcloudapi.com

### 2. Communication Protocol

All Tencent Cloud APIs communicate over HTTPS to provide high-security channels.

### 3. Request Methods

Both POST and GET requests are supported. POST requests only support the Content-Type of application/x-www-form-urlencoded.

### 4 Character Encoding

UTF-8 encoding is always used.

# Common Params

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Common parameters are used for user identification and API authentication. Unless necessary, these parameters will not be discussed in each API document. A request that comes with these parameters can be initiated successfully.

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For example, if you want to call the CVM API for querying the list of instances, the Action parameter is DescribeInstances.
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs.
Timestamp	Integer	Yes	The current UNIX timestamp that records the time at which the API request was initiated, for example, 1529223702. If the time difference between the timestamp and the current time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer, which is used in conjunction with Timestamp to prevent replay attacks.
SecretId	String	Yes	SecretId for identifying identity that is applied for on <a href="#">Cloud API Key</a> . A SecretId corresponds to a unique SecretKey, which is used to generate the request Signature.
Signature	String	Yes	Request signature, which is used to verify the validity of the request. The signature must be computed based on input parameters. For more information on how to compute the signature, please see the API authentication documentation.
Version	String	Yes	API version, such as 2017-03-12
SignatureMethod	String	No	Signature method. Supported methods include HmacSHA256 and HmacSHA1. The HmacSHA256 method is used to verify signatures only when the parameter is specified as HmacSHA256. Otherwise, HmacSHA1 is used.
Token	String	No	The token used for the temporary certificate, which must be used together with a temporary key. You can obtain the temporary key and token by calling the CAM API. No token is required for a long-term key.

If, for example, you want to query the list of Tencent Cloud CVM instances in the Guangzhou region, the request link should look like this:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances
&SecretId=xxxxxxx
&Region=ap-guangzhou
&Timestamp=1402992826
&Nonce=345122
&Signature=xxxxxxx
&Version=2017-03-12
```

## Region List

The Region fields of all APIs for this product can be set to the following values. Any API that does not support the regions in the table will be described separately in the relevant API document.

Region	Value
Asia Pacific (Bangkok)	ap-bangkok
North China (Beijing)	ap-beijing
Southwest (Chengdu)	ap-chengdu
Southwest (Chongqing)	ap-chongqing
South China (Guangzhou)	ap-guangzhou
South China (Guangzhou Open)	ap-guangzhou-open
Southeast Asia (Hong Kong)	ap-hongkong
Asia Pacific (Mumbai)	ap-mumbai
Southeast Asia (Seoul)	ap-seoul
East China (Shanghai)	ap-shanghai
East China (Shanghai Finance)	ap-shanghai-fsi
South China (Shenzhen Finance)	ap-shenzhen-fsi
Southeast Asia (Singapore)	ap-singapore
Europe (Germany)	eu-frankfurt
Europe (Moscow)	eu-moscow
Eastern U.S. (Virginia)	na-ashburn
Western U.S. (Silicon Valley)	na-siliconvalley

---

Region	Value
North America (Toronto)	na-toronto



# Signature

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Tencent Cloud API authenticates each access request, so each request is required to include the Signature in the common request parameters for user identity authentication. The signature is generated with user's security credentials, which consist of a SecretId and a SecretKey. If you don't have security credentials, apply for the credentials on the [Cloud API Key page](#). Otherwise, you will not be able to call the cloud APIs.

## 1. Apply for Security Credentials

Before using Tencent Cloud's APIs for the first time, you need to apply for security credentials by going to [Cloud API Key](#) page. Security credential consists of a SecretId and a SecretKey, where:

SecretId: Used to identify the API caller. SecretKey: Used for signature string encryption, and signature string verification by server. **The security credential must be kept confidential to avoid leakage.**

Apply for security credentials by following the steps below:

- (1) Log in to [Tencent Cloud Console](#).
- (2) Go to the [Cloud API Key](#) page.
- (3) On the [Cloud API Key](#) page, click **New** to create a pair of SecretId/SecretKey.

**A developer account can have two pairs of SecretId/SecretKey at most.**

## 2. Generate Signature String

With the SecretId and SecretKey, a signature string can be generated. The following shows how to generate a signature:

Suppose that you have the following SecretId and SecretKey:

SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE SecretKey:  
Gu5t9xGARNpq86cd98joQYCN3EXAMPLE

**Note: This information is only for demonstration purpose. Make sure you proceed with your actual SecretId and SecretKey.**

For example, if you call the API "View CVM Instance List" (DescribeInstances), the possible request parameters are as follows:

Parameter Name	Description	Parameter Value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE
Timestamp	Current timestamp	1465185768
Nonce	A random positive integer	11886
Region	The region where the instance resides	ap-guangzhou
InstanceIds.0	ID of the instance to be queried	ins-09dx96dg
Offset	Offset	0
Limit	Maximum number of output results	20
Version	API version	2017-03-12

## 2.1 Sort parameters

First, sort all the request parameters in an ascending lexicographical order by their names, just like sorting words in a dictionary in ascending alphabetical order or numerical order. That is to say, sort the parameters by their first letters, then by their second letters if their first letters are the same, and so on. You can complete the sorting process using relevant sorting functions in 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' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE',
  'Timestamp' : 1465185768,
  'Version': '2017-03-12',
}
```

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

## 2.2. Generate the request string

This step is used to generate the request string. Format the request parameters sorted in the previous step as "parameter name"="parameter value". For example, if the parameter value of "Action" is "DescribeInstances", the resulting format is Action=DescribeInstances. **Note: "Parameter value" is the original value, instead of the URL encoded value.**

Then, join the formatted parameters together with "&" to generate the final request string:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&Timestamp=1465185768&Version=2017-03-12
```

### 2.3. Generate the original signature string

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

(1) Request method: The POST and GET methods are supported. In this case, a GET request is used. Please note that the methods must be all in uppercase. (2) Request CVM: The request domain name for View Instance List (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies with the module to which the API belongs. For more information, please see the relevant API description. (3) Request path: The request path of the current version of cloud API is always /. (4) Request string: The request string generated in the previous step.

The original signature string is constructed as follows:

```
request method + request host + request path + ? + request string
```

The resulting string is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&Timestamp=1465185768&Version=2017-03-12
```

### 2.4. Generate the signature string

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

For example, the code is as follows if written in PHP:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3EXAMPLE';  
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPL
```

```
E&Timestamp=1465185768&Version=2017-03-12';  
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));  
echo $signStr;
```

The resulting signature string is as follows:

```
EliP9YW3pW28FpsEdkXt/+WcGel=
```

If another programming language is used, the original signature string in the above example can be used for verification, as long as the signature generated is the same as the one in the example.

### 3. Encode the Signature String

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

**Note: If the GET method is used, all request parameters need to be encoded with URL encoding.** For example, the signature string "EliP9YW3pW28FpsEdkXt/+WcGel=" generated in the previous step is converted to the final signature string request parameter (Signature): "EliP9YW3pW28FpsEdkXt/+WcGel=", which will be used to generate the final request URL.

### 4. Authentication Failure

The following authentication error codes may be returned depending on the actual situation.

Error Code	Error Description
AuthFailure.SignatureExpire	Signature expired
AuthFailure.UnauthorizedOperation	Request failed to be authorized via CAM
AuthFailure.SecretIdNotFound	Key does not exist
AuthFailure.SignatureFailure	Invalid signature
AuthFailure.TokenFailure	token error
AuthFailure.MFAFailure	MFA error
AuthFailure.InvalidSecretId	Invalid key (it is not a cloud API key)

### 5. Signature Demonstration

When calling the API 3.0 in practice, you should use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, so that you can only focus on the specific APIs provided by the product

during development. For more information, please see [SDK Center](#). The following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [JavaScript](#)

To make the signature process more clear, we use the Java language in the following example to implement the above signature process. The request domain name, the API and the parameters are all subject to the above signature process.

## Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // TreeMap is used to guarantee the lexicographic sorting order of parameters as required in the signature process.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // It is not necessary to sort parameters in the actual request URL.
    }
}
```

```
for (String k : params.keySet()) {
// The request string should be URL-encoded. Since the key is comprised of letters only, its value must be UR
L-encoded.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
}
return url.toString().substring(0, url.length() - 1);
}

public static void main(String[] args) throws Exception {
TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap can realize auto-sorting
// A random number should be used for the actual call, for example: params.put("Nonce", new Random().ne
xtInt(java.lang.Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameters
// The current system time should be used for the actual call, for example: params.put("Timestamp", System.
currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameters
params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE"); // Common parameters
params.put("Action", "DescribeInstances"); // Common parameters
params.put("Version", "2017-03-12"); // Common parameters
params.put("Region", "ap-guangzhou"); // Common parameters
params.put("Limit", 20); // Business parameters
params.put("Offset", 0); // Business parameters
params.put("InstanceId.0", "ins-09dx96dg"); // Business parameters
params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3EXAMPLE", "HmacS
HA1")); // Common parameters
System.out.println(getUrl(params));
}
}
```

The resulting URL: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE&Signature=Elip9YW3pW28FpsEdkXt/+WcGel=&Timestamp=1465185768&Version=2017-03-12`

Note: Since the key in the example is fictitious and the timestamp is not the current system time, the authentication error "The signature expired" will be returned when you open this URL in a browser or call it with a command, such as curl. To get a URL that can be returned normally, replace the SecretId and SecretKey in the example with the real key, and use the current system timestamp as the Timestamp.

# Responses

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## Correct Returned Result

Take the CVM API "View Instance Status List" (DescribeInstancesStatus) (version 2017-03-12) as an example. If it is successfully called, the possible returned result is as follows:

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceStatusSet": [],
    "RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
  }
}
```

- The Response and its RequestId are fixed fields, which are always returned as long as the request is processed by the API, regardless of whether it is successful or not.
- RequestId is used to uniquely identify an API request. If an API exception occurs, you can contact us and provide this ID to solve the problem.
- Other fields than the fixed ones are defined for specific APIs. Fields returned by each API can be found in relevant API documentation. In this example, TotalCount and InstanceStatusSet are defined for the API DescribeInstancesStatus. Since there is no CVM instance when the request is initiated, the returned value for TotalCount is 0 and the InstanceStatusSet list is empty.

## Incorrect Returned Result

If the call fails, the returned values are as follows:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

- Error indicates a failed call. The Error field along with its Code and Message fields are still returned even if the call fails.

- Code indicates the specific error code. When an error occurs with the request, you can find the cause and solution in the common error codes and the error code list for the current API based on this error code.
- Message indicates the reason for the error, which may be changed or updated from time to time as the business grows or experience improves. Therefore, you should not rely on this returned value.
- RequestId is used to uniquely identify an API request. If an API exception occurs, you can contact us and provide this ID to solve the problem.

## Common Error Codes

If the Error field exists in the returned result, it means the call to the API failed. The Code field in the Error indicates the error code. Common error codes are error codes that may appear in all businesses, as shown below.

Error Code	Error Description
InvalidParameter	Invalid parameter (including incorrect parameter format, type, etc.)
InvalidParameterValue	Incorrect parameter value
MissingParameter	A required parameter is missing
UnknownParameter	Unknown parameter. This error occurs when a user passes an undefined parameter.
AuthFailure	CAM signature/authentication failure
InternalError	Internal error
InvalidAction	API does not exist
UnauthorizedOperation	Unauthorized operation
RequestLimitExceeded	The number of requests exceeds the frequency limit
NoSuchVersion	The API version does not exist
UnsupportedRegion	The API does not support the region passed
UnsupportedOperation	Operation is not supported
ResourceNotFound	Resource does not exist
LimitExceeded	Quota exceeded
ResourceUnavailable	Unavailable resource
ResourceInsufficient	Insufficient resources
FailedOperation	Operation failed



---

Error Code	Error Description
ResourceInUse	Resource is occupied
DryRunOperation	DryRun operation. It means that the request will be successful, but multiple DryRun parameters are passed.

# History

Last updated : 2018-10-12 16:02:21

## The 9th Release

Release time: 7/12/2018 6:44:10 PM

The following changes are contained in this release:

The existing documents were improved.

API modified:

- [InquiryPriceRenewInstances](#)
  - New input parameter: RenewPortableDataDisk
- [RenewInstances](#)
  - New input parameter: RenewPortableDataDisk

Data structure modified:

- [OsVersion](#)
  - New member: Architecture

## The 8th Release

Release time: 7/2/2018 8:46:22 PM

The following changes are contained in this release:

The existing documents were improved.

APIs added:

- [DescribeInstanceVncUrl](#)

API modified:

- [RunInstances](#)
  - New input parameter: DisasterRecoverGroupIds

## The 7th Release

Release time: 6/21/2018 2:51:58 PM

The following changes are contained in this release:

The existing documents were improved.

APIs added:

- [InquiryPriceModifyInstancesChargeType](#)
- [ModifyInstancesChargeType](#)

## The 6th Release

Release time: 6/14/2018 12:15:42 PM

The following changes are contained in this release:

The existing documents were improved.

APIs added:

- [CreateDisasterRecoverGroup](#)
- [DeleteDisasterRecoverGroups](#)
- [DescribeDisasterRecoverGroupQuota](#)
- [DescribeDisasterRecoverGroups](#)
- [ModifyDisasterRecoverGroupAttribute](#)

API modified:

- [DescribeImportImageOs](#)
  - New output parameter: ImportImageOsVersionSet
  - **Deleted output parameter:** ImportImageOsVersionSupported
  - **Modified output parameter:** ImportImageOsListSupported

Data structures added:

- [DisasterRecoverGroup](#)
- [ImageOsList](#)
- [OsVersion](#)

Data structure modified:

- [HostItem](#)
  - **Modified member:** Instancelds

## The 5th Release

Release time: 6/7/2018 3:01:42 PM

The following changes are contained in this release:

The existing documents were improved.

**APIs deleted:**

- DescribeInstanceOperationLogs
- UpdateInstanceVpcConfig

APIs modified:

- [ModifyInstancesAttribute](#)
  - New input parameter: SecurityGroups
- [RunInstances](#)
  - New input parameters: InstanceMarketOptions, UserData

Data structure modified:

- [Instance](#)
  - New member: InstanceState

## The 4th Release

Release time: 5/31/2018 2:45:35 PM

The following changes are contained in this release:

The existing documents were improved.

API added:

- [DescribeZoneInstanceConfigInfos](#)

Data structures added:

- [InstanceTypeQuotaItem](#)
- [LocalDiskType](#)
- [StorageBlock](#)

Data structure modified:

- [Externals](#)
  - New members: UnsupportNetworks, StorageBlockAttr

## The 3rd Release

Release time: 5/24/2018 5:08:50 PM

The following changes are contained in this release:

The existing documents were improved.

### API deleted:

- QueryMigrateTask

## The 2nd Release

Release time: 5/17/2018 4:17:11 PM

The following changes are contained in this release:

The existing documents were improved.

API modified:

- [InquiryPriceRunInstances](#)
  - New input parameter: InstanceMarketOptions
- [TerminateInstances](#)
  - **Deleted input parameter:** DiskType

Data structures added:

- [InstanceMarketOptionsRequest](#)
- [SpotMarketOptions](#)

Data structures modified:

- [Image](#)
  - **Modified members:** ImageSize, Platform, ImageCreator
- [Instance](#)
  - New members: OsName, SecurityGroupIds, LoginSettings

## The 1st Release

Release time: 2018-04-24

The following changes are contained in this release:

The existing documents were improved.

APIs added:

- [AllocateHosts](#)
- [AssociateInstancesKeyPairs](#)
- [CreateImage](#)
- [CreateKeyPair](#)
- [DeleteImages](#)
- [DeleteKeyPairs](#)
- [DescribeHosts](#)
- [DescribeImageQuota](#)
- [DescribeImageSharePermission](#)
- [DescribeImages](#)
- [DescribeImportImageOs](#)
- [DescribeInstanceFamilyConfigs](#)
- [DescribeInstanceInternetBandwidthConfigs](#)
- [DescribeInstanceOperationLogs](#)
- [DescribeInstanceTypeConfigs](#)
- [DescribeInstances](#)
- [DescribeInstancesStatus](#)
- [DescribeInternetChargeTypeConfigs](#)
- [DescribeKeyPairs](#)
- [DescribeRegions](#)
- [DescribeZones](#)
- [DisassociateInstancesKeyPairs](#)
- [ImportImage](#)
- [ImportKeyPair](#)
- [InquiryPriceRenewInstances](#)
- [InquiryPriceResetInstance](#)
- [InquiryPriceResetInstancesInternetMaxBandwidth](#)
- [InquiryPriceResetInstancesType](#)
- [InquiryPriceResizeInstanceDisks](#)
- [InquiryPriceRunInstances](#)
- [ModifyHostsAttribute](#)
- [ModifyImageAttribute](#)
- [ModifyImageSharePermission](#)
- [ModifyInstancesAttribute](#)
- [ModifyInstancesProject](#)
- [ModifyInstancesRenewFlag](#)
- [ModifyKeyPairAttribute](#)
- [QueryMigrateTask](#)
- [RebootInstances](#)

- [RenewHosts](#)
- [RenewInstances](#)
- [ResetInstance](#)
- [ResetInstancesInternetMaxBandwidth](#)
- [ResetInstancesPassword](#)
- [ResetInstancesType](#)
- [ResizeInstanceDisks](#)
- [RunInstances](#)
- [StartInstances](#)
- [StopInstances](#)
- [SyncImages](#)
- [TerminateInstances](#)
- [UpdateInstanceVpcConfig](#)

Data structures added:

- [ActionTimer](#)
- [ChargePrepaid](#)
- [DataDisk](#)
- [EnhancedService](#)
- [Externals](#)
- [Filter](#)
- [HostItem](#)
- [HostResource](#)
- [Image](#)
- [Instance](#)
- [InstanceChargePrepaid](#)
- [InstanceFamilyConfig](#)
- [InstanceStatus](#)
- [InstanceTypeConfig](#)
- [InternetAccessible](#)
- [InternetBandwidthConfig](#)
- [InternetChargeTypeConfig](#)
- [ItemPrice](#)
- [KeyPair](#)
- [LoginSettings](#)
- [Placement](#)
- [Price](#)
- [RegionInfo](#)
- [RunMonitorServiceEnabled](#)
- [RunSecurityServiceEnabled](#)

- [SharePermission](#)
- [SystemDisk](#)
- [Tag](#)
- [TagSpecification](#)
- [VirtualPrivateCloud](#)
- [ZoneInfo](#)



# Region-related APIs

## DescribeRegions

Last updated : 2018-10-12 16:02:25

### 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeRegions`) is used to query regions.

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

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeRegions</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	No	String	Common parameter. This parameter is not required for this API.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of regions
RegionSet	Array of <a href="#">RegionInfo</a>	Region details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

## 5. Example

### Example 1 Request example

#### Input example

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

#### Output example

```
{
  "Response": {
    "RegionSet": [
      {
        "Region": "ap-beijing",
        "RegionName": "North China (Beijing)",
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-guangzhou",
        "RegionName": "South China (Guangzhou)",
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-guangzhou-open",
        "RegionName": "South China (Guangzhou Open)",
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-hongkong",
        "RegionName": "Southeast Asia (Hong Kong)",
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-shanghai",
        "RegionName": "East China (Shanghai)",
        "RegionState": "AVAILABLE"
      },
      {
        "Region": "ap-shanghai-fsi",
```

```
"RegionName": "East China (Shanghai Finance)",
"RegionState": "AVAILABLE"
},
{
"Region": "ap-shenzhen-fsi",
"RegionName": "South China (Shenzhen Finance)",
"RegionState": "AVAILABLE"
},
{
"Region": "ap-singapore",
"RegionName": "Southeast Asia (Singapore)",
"RegionState": "AVAILABLE"
},
{
"Region": "na-siliconvalley",
"RegionName": "Western U.S. (Silicon Valley)",
"RegionState": "AVAILABLE"
},
{
"Region": "na-toronto",
"RegionName": "North America (Toronto)",
"RegionState": "AVAILABLE"
}
],
"RequestId": "C563943B-3BEA-FE92-29FE-591EAEB7871F",
"TotalCount": 10
}
}
```

# DescribeZones

Last updated : 2018-10-12 16:02:24

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (DescribeZones) is used to query availability zones.

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeZones
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

## 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of availability zones
ZoneSet	Array of <a href="#">ZoneInfo</a>	Availability zone details
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

## 5. Example

### Example 1 Request example

#### Input example

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

#### Output example

```
{
  "Response": {
    "RequestId": "62DDFFC6-FDB5-44F7-20A6-59152E3D129A",
    "TotalCount": 3,
    "ZoneSet": [
      {
        "Zone": "ap-guangzhou-1",
        "ZoneId": "100001",
        "ZoneName": "Guangzhou Zone 1",
        "ZoneState": "UNAVAILABLE"
      },
      {
        "Zone": "ap-guangzhou-2",
        "ZoneId": "100002",
        "ZoneName": "Guangzhou Zone 2",
        "ZoneState": "AVAILABLE"
      },
      {
        "Zone": "ap-guangzhou-3",
        "ZoneId": "100003",
        "ZoneName": "Guangzhou Zone 3",
        "ZoneState": "AVAILABLE"
      }
    ]
  }
}
```

# Instance-related APIs

## RunInstances

Last updated : 2018-10-12 16:02:28

### 1. API Description

Domain name for API request: [cvm.tencentcloudapi.com](https://cvm.tencentcloudapi.com)

This API (RunInstances) is used to create one or more instances with specified configuration.

- After the instance is created successfully, it will start on boot and the [instance status](#) will become "running".
- For prepaid instances, the required amount will be pre-deducted; for postpaid instances billed on an hourly basis, the amount equal to an hourly rate of the instance will be pre-frozen. Make sure your account balance is sufficient before calling this API.
- The instances allowed to be purchased by this API are subject to the number limit described in the [Restrictions on CVM Instance Purchase](#), and share the quota with the instances created by the official website entry.
- With the asynchronous API, an instance ID list will be returned when the creation request is issued successfully, but the instance is not created immediately. During this period, the status of the instance is "Pending". You can call API [DescribeInstancesStatus](#) to query the status of the instance to check whether it is created. If the status changes from "Pending" to "Running", the instance is created successfully.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: [cvm.ap-shanghai-fsi.tencentcloudapi.com](https://cvm.ap-shanghai-fsi.tencentcloudapi.com)

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: RunInstances
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12

Parameter Name	Required	Type	Description
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Placement	Yes	<a href="#">Placement</a>	Location of the instance. This parameter is used to specify the availability zone, the project to which the instance belongs, and the CDH (the creation of sub-machine for the exclusive parent host billing mode), etc.
ImageId	Yes	String	<p>Specify a valid <a href="#">Image</a> ID, in the format of <code>img-xxx</code>. There are four types of images:</p> <ul style="list-style-type: none"><li>• Public image</li><li>• Custom image</li><li>• Shared image</li><li>• Marketplace image</li></ul> <p>You can obtain the available image IDs by either of the following ways:</p> <ul style="list-style-type: none"><li>• Query the image ID of a <a href="#">public image</a>, <a href="#">custom image</a> or <a href="#">shared image</a> by logging in to the <a href="#">Console</a>; query the image ID of a <a href="#">marketplace image</a> via <a href="#">Cloud Marketplace</a>.</li><li>• Call the API <a href="#">DescribeImages</a> to obtain the <code>ImageId</code> field value in the returned result.</li></ul>

Parameter Name	Required	Type	Description
InstanceChargeType	No	String	Instance <a href="#">billing type</a> . <ul style="list-style-type: none"><li>• PREPAID: prepaid (by year/month)</li><li>• POSTPAID_BY_HOUR: postpaid by hour</li><li>• CDHPAID: exclusive parent host billing (based on the creation of CDH, and CDH resources are free of charge)</li><li>• SPOTPAID: pay by bidding</li></ul> Default: POSTPAID_BY_HOUR.
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the usage period, whether to set automatic renewal and other attributes of the instance purchased on a prepaid basis. This parameter is required if the billing method for the specified instance is prepaid.



Parameter Name	Required	Type	Description
InstanceType	No	String	<p>Instance model. Different resource specifications are specified for different instance models.</p> <ul style="list-style-type: none"> <li>For the creation of sub-machine billed on the PREPAID or POSTPAID_BYHOUR basis, specific values can be found in the latest specifications by calling the API <a href="#">DescribeInstanceTypeConfigs</a> or in <a href="#">Instance Type</a> description. If this parameter is not specified, S1.SMALL1 is used by default.</li> <li>For the creation of sub-machine billed on the CDHPAID basis, the prefix of the parameter value is "CDH". The parameter value is generated in the format of CDH_XCXG and based on the CPU and memory configuration. For example, if a sub-machine of CDH is created with a single-core CPU and 1 GB memory, its value should be CDH_1C1G.</li> </ul>
SystemDisk	No	<a href="#">SystemDisk</a>	Configuration information of the system disk in the instance. If this parameter is not specified, the default value is assigned to it.
DataDisks.N	No	Array of <a href="#">DataDisk</a>	Configuration information of the instance data disk. If this parameter is not specified, no data disk will be purchased by default. You can specify only one data disk when purchasing it.

Parameter Name	Required	Type	Description
VirtualPrivateCloud	No	<a href="#">VirtualPrivateCloud</a>	Configuration information of VPC. This parameter is used to specify the ID of VPC and subnet, etc. If this parameter is not specified, the basic network is used by default. If a VPC IP is specified in this parameter, it indicates the primary ENI IP of each instance and the value of InstanceCount must be same as the number of VPC IPs.
InternetAccessible	No	<a href="#">InternetAccessible</a>	Configuration information of public network bandwidth. If this parameter is not specified, the public network bandwidth is set to 0 Mbps by default.
InstanceCount	No	Integer	Number of instances to be purchased. Value range: [1, 100]. Default: 1. The number of instances to be purchased cannot exceed the remaining quota allowed for the user. For more information on quota restrictions, please see <a href="#">Restrictions on CVM Instance Purchase</a> .

Parameter Name	Required	Type	Description
InstanceName	No	String	<p>The display name of the instance.</p> <ul style="list-style-type: none"><li>If it is not specified, "Not named" is displayed by default.</li><li>If you purchase multiple instances and the pattern string <code>{R:x}</code> is specified, display names will be generated based on <code>[x, x+n-1]</code>, where <code>n</code> is the number of instances purchased. For example, when <code>server_{R:3}</code> is specified, the display name will be <code>server_3</code> if one instance is purchased, or <code>server_3</code> and <code>server_4</code> if two instances are purchased. You can specify multiple pattern strings <code>{R:x}</code>.</li><li>If you purchase multiple instances and the name pattern string is not specified, the suffix <code>1, 2...n</code> is appended to the display names, where <code>n</code> is the number of instances purchased. For example, when <code>server_</code> is specified, the display name will be <code>server_1</code> and <code>server_2</code> if two instances are purchased.</li></ul>
LoginSettings	No	<a href="#">LoginSettings</a>	<p>Login settings of an instance. This parameter is used to set the instance login method, password and key, or to keep the original login settings of image. By default, a password is generated randomly and notified to the user via internal message.</p>

Parameter Name	Required	Type	Description
SecurityGroupIds.N	No	Array of String	The security group to which an instance belongs. This parameter can be obtained from the sgId field in the returned values of <a href="#">DescribeSecurityGroups</a> . If this parameter is not specified, the security group is not bound by default.
EnhancedService	No	<a href="#">EnhancedService</a>	Enables enhanced services. This parameter is used to specify whether to enable Cloud Security, Cloud Monitor and other services. If this parameter is not specified, Cloud Monitor and Cloud Security services are enabled by default.
ClientToken	No	String	A string to ensure the idempotency of the request, which is generated by the client. Each request shall have a unique string with a maximum of 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be ensured. For more information, please see <a href="#">How to Ensure Idempotency</a> .

Parameter Name	Required	Type	Description
HostName	No	String	<p>Server name of CVM.</p> <ul style="list-style-type: none"> <li>Period (.) and hyphen (-) cannot be used as the first and the last character of HostName, and multiple consecutive hyphens (-) or periods (.) are not allowed.</li> <li>Windows instance: The name should be a combination of 2 to 15 characters comprised of letters (case insensitive), numbers, and hyphens (-). Period (.) is not supported, and the name cannot be a string of pure numbers.</li> <li>Other types (such as Linux) of instances: The name should be a combination of 2 to 60 characters, supporting multiple periods (.). The piece between two periods is composed of letters (case insensitive), numbers, and hyphens (-).</li> </ul>
ActionTimer	No	<a href="#">ActionTimer</a>	Timed task. This parameter is used to specify timed tasks for instances. Only timed termination is supported.
DisasterRecoverGroupIds.N	No	Array of String	Disaster recovery group id. You can specify only one id.
TagSpecification.N	No	Array of <a href="#">TagSpecification</a>	Tag description list. This parameter is used to bind a tag to a resource instance. A tag can only be bound to CVM instances.
InstanceMarketOptions	No	<a href="#">InstanceMarketOptionsRequest</a>	Market-related options for instances, such as parameters related to spot instances

Parameter Name	Required	Type	Description
UserData	No	String	The user data provided to the instance, which is to be encoded in base64 mode, with the maximum size of 16KB. For more information on how to get this parameter, please see "Run texted commands upon initial startup on <a href="#">Windows</a> or <a href="#">Linux</a> ".

### 3. Output Parameters

Parameter Name	Type	Description
InstanceIdSet	Array of String	This parameter is returned when an instance is created via this API, representing one or more instance IDs. The return of the instance ID list does not mean that the instance is created successfully. You can find out whether the instance is created by querying the status of the instance ID in the returned InstanceSet via API <a href="#">DescribeInstancesStatus</a> . If the status of the instance changes from "creating" to "running", the instance is created successfully.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
AccountQualificationRestrictions	The request account failed to pass the eligibility verification.
InstancesQuotaLimitExceeded	The number of created instances exceeds the remaining quota allowed for the account.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to the request account.

Error Code	Description
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidInstanceType.Malformed	The format of the specified parameter InstanceType is invalid.
InvalidParameter.InvalidIpFormat	Indicates that the format for the specified VPC IP is incorrect.
InvalidParameterCombination	Indicates that the parameter combination is incorrect.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.Range	Invalid parameter value. The parameter value range is invalid.
InvalidPassword	Invalid password. The specified password does not conform to the rule of password complexity. For example, the password length does not meet the requirement.
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
InvalidPermission	The operation is not supported for the account.
InvalidZone.MismatchRegion	The specified zone does not exist.
MissingParameter	Parameter is missing. A required parameter is missing in the request.
VpcAddrNotInSubNet	Indicates that the VPC IP is not in the subnet.
VpcIpsUsed	Indicates that the VPC IP is already occupied.

## 5. Example

### Example 1 Purchase with simple parameters

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=RunInstances
&Placement.Zone=ap-guangzhou-2
&ImageId=img-pmqg1cw7
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "InstanceIdSet": [
```

```
"ins-1vogaxgk"  
],  
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"  
}  
}
```

## Example 2 Purchase instances on a Prepaid basis

### Input example

```
https://cvm.tencentcloudapi.com/?Action=RunInstances  
&Placement.Zone=ap-guangzhou-2  
&InstanceChargeType=PREPAID  
&InstanceChargePrepaid.Period=1  
&InstanceChargePrepaid.RenewFlag=NOTIFY_AND_AUTO_RENEW  
&ImageId=img-pmqg1cw7  
&InstanceType=S1.SMALL1  
&SystemDisk.DiskType=LOCAL_BASIC  
&SystemDisk.DiskSize=50  
&DataDisks.0.DiskType=LOCAL_BASIC  
&DataDisks.0.DiskSize=100  
&InternetAccessible.InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR  
&InternetAccessible.InternetMaxBandwidthOut=10  
&InternetAccessible.PublicIpAssigned=TRUE  
&InstanceName=QCLOUD-TEST  
&LoginSettings.Password=Qcloud@TestApi123++  
&EnhancedService.SecurityService.Enabled=TRUE  
&EnhancedService.MonitorService.Enabled=TRUE  
&InstanceCount=1  
&<Common request parameters>
```

### Output example

```
{  
  "Response": {  
    "InstanceIdSet": [  
      "ins-bfw5zq3y"  
    ],  
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"  
  }  
}
```

## Example 3 Purchase instances on an Hourly and Postpaid basis

### Input example



```
https://cvm.tencentcloudapi.com/?Action=RunInstances
&Placement.Zone=ap-guangzhou-2
&InstanceChargeType=POSTPAID_BY_HOUR
&ImageId=img-pmqg1cw7
&InstanceType=S2.SMALL1
&SystemDisk.DiskType=LOCAL_BASIC
&SystemDisk.DiskSize=50
&DataDisks.0.DiskType=LOCAL_BASIC
&DataDisks.0.DiskSize=100
&InternetAccessible.InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR
&InternetAccessible.InternetMaxBandwidthOut=10
&InternetAccessible.PublicIpAssigned=TRUE
&InstanceName=QCLOUD-TEST
&LoginSettings.Password=Qcloud@TestApi123++
&EnhancedService.SecurityService.Enabled=TRUE
&EnhancedService.MonitorService.Enabled=TRUE
&InstanceCount=1
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "InstanceIdSet": [
      "ins-32kcaqoa"
    ],
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

### Example 4 Purchase sub-machine instance of exclusive parent host

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=RunInstances
&Placement.Zone=ap-guangzhou-2
&Placement.HostIds.0=host-q88gab4i
&InstanceChargeType=CDHPAID
&ImageId=img-pmqg1cw7
&InstanceType=CDH_1C1G
&SystemDisk.DiskType=LOCAL_BASIC
&SystemDisk.DiskSize=50
&DataDisks.0.DiskType=LOCAL_BASIC
&DataDisks.0.DiskSize=100
&InternetAccessible.InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR
&InternetAccessible.InternetMaxBandwidthOut=10
```

```
&InternetAccessible.PublicIpAssigned=TRUE
&InstanceName=QCLOUD-TEST
&LoginSettings.Password=Qcloud@TestApi123++
&EnhancedService.SecurityService.Enabled=TRUE
&EnhancedService.MonitorService.Enabled=TRUE
&InstanceCount=1
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "InstanceIdSet": [
      "ins-0s7wsh5x"
    ],
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

### Example 5 Generate sub-machine with specified VPC IP

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=RunInstances
&InstanceType=S1.SMALL2
&SystemDisk.DiskType=CLOUD_BASIC
&SystemDisk.DiskSize=50
&Placement.Zone=ap-hongkong-1
&ImageId=img-dkwyg6sr
&VirtualPrivateCloud.SubnetId=subnet-dcs9x3gz
&VirtualPrivateCloud.VpcId=vpc-1urkhhj4
&VirtualPrivateCloud.PrivateIpAddresses.0=10.0.0.18
&VirtualPrivateCloud.PrivateIpAddresses.1=10.0.0.19
&InstanceCount=2
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "InstanceIdSet": [
      "ins-0s7wsh5x",
      "ins-03lw8hok"
    ],
    "RequestId": "3c14def19-cfes-470e-b241-90787u6jf5uj"
  }
}
```

```
}  
}
```

# InquiryPriceRunInstances

Last updated : 2018-10-12 16:02:40

## 1. API Description

Domain name for API request: [cvm.tencentcloudapi.com](https://cvm.tencentcloudapi.com)

This API (InquiryPriceRunInstances) is used to inquire the prices of created instances. With this API, you can only inquire the prices of the instance configuration within the purchase limits. For more information, please see [Create Instances](#).

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: [cvm.ap-shanghai-fsi.tencentcloudapi.com](https://cvm.ap-shanghai-fsi.tencentcloudapi.com)

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: InquiryPriceRunInstances
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Placement	Yes	<a href="#">Placement</a>	Location of the instance. This parameter is used to specify the availability zone and project to which the instance belongs.

Parameter Name	Required	Type	Description
ImageId	Yes	String	<p>Specify a valid <a href="#">Image</a> ID, in the format of <code>img-xxx</code>. There are four types of images:</p> <ul style="list-style-type: none"> <li>Public image</li> <li>Custom image</li> <li>Shared image</li> <li>Marketplace image</li> </ul> <p>You can obtain the available image IDs by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the image ID of a <a href="#">public image</a>, <a href="#">custom image</a> or <a href="#">shared image</a> by logging in to the <a href="#">Console</a>; query the image ID of a <a href="#">marketplace image</a> via <a href="#">Cloud Marketplace</a>.</li> <li>Call the API <a href="#">DescribeImages</a> to obtain the <code>ImageId</code> field value in the returned result.</li> </ul>
InstanceChargeType	No	String	<p>Instance <a href="#">billing type</a>.</p> <ul style="list-style-type: none"> <li>PREPAID: prepaid (by year/month)</li> <li>POSTPAID_BY_HOUR: postpaid by hour</li> </ul> <p>Default: POSTPAID_BY_HOUR.</p>
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	<p>Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the usage period, whether to set automatic renewal and other attributes of the instance purchased on a prepaid basis. This parameter is required if the billing method for the specified instance is prepaid.</p>

Parameter Name	Required	Type	Description
InstanceType	No	String	Instance model. Different instance models specify different resource specifications. Specific values can be found in the latest specifications by calling the API <a href="#">DescribeInstanceTypeConfigs</a> or in <a href="#">CVM Instance Configuration</a> . If this parameter is not specified, the default model is S1.SMALL1.
SystemDisk	No	<a href="#">SystemDisk</a>	Configuration information of the system disk in the instance. If this parameter is not specified, the default value is assigned to it.
DataDisks.N	No	Array of <a href="#">DataDisk</a>	Configuration information of the instance data disk. If this parameter is not specified, no data disk will be purchased by default. You can specify only one data disk when purchasing it.
VirtualPrivateCloud	No	<a href="#">VirtualPrivateCloud</a>	Configuration information of VPC. This parameter is used to specify the ID of VPC and subnet, etc. If this parameter is not specified, the basic network is used by default. If a VPC IP is specified in this parameter, the parameter InstanceCount can only be 1.
InternetAccessible	No	<a href="#">InternetAccessible</a>	Configuration information of public network bandwidth. If this parameter is not specified, the public network bandwidth is set to 0 Mbps by default.

Parameter Name	Required	Type	Description
InstanceCount	No	Integer	Number of instances to be purchased. Value range: [1, 100]. Default: 1. The number of instances to be purchased cannot exceed the remaining quota allowed for the user. For more information on quota restrictions, please see <a href="#">Restrictions on CVM Instance Purchase</a> .
InstanceName	No	String	The display name of the instance. <ul style="list-style-type: none"><li>• If it is not specified, "Not named" is displayed by default.</li><li>• If you purchase multiple instances and the pattern string {R:x} is specified, display names will be generated based on [x, x+n-1], where n is the number of instances purchased. For example, when server_{R:3} is specified, the display name will be server_3 if one instance is purchased, or server_3 and server_4 if two instances are purchased. You can specify multiple pattern strings {R:x}.</li><li>• If you purchase multiple instances and the name pattern string is not specified, the suffix 1, 2...n is appended to the display names, where n is the number of instances purchased. For example, when server_ is specified, the display name will be server_1 and server_2 if two instances are purchased.</li></ul>

Parameter Name	Required	Type	Description
LoginSettings	No	<a href="#">LoginSettings</a>	Login settings of an instance. This parameter is used to set the instance login method, password and key, or to keep the original login settings of image. By default, a password is generated randomly and notified to the user via internal message.
SecurityGroupIds.N	No	Array of String	The security group to which an instance belongs. This parameter can be obtained from the sglid field in the returned values of <a href="#">DescribeSecurityGroups</a> . If this parameter is not specified, the security group is not bound by default.
EnhancedService	No	<a href="#">EnhancedService</a>	Enables enhanced services. This parameter is used to specify whether to enable Cloud Security, Cloud Monitor and other services. If this parameter is not specified, Cloud Monitor and Cloud Security services are enabled by default.
ClientToken	No	String	A string to ensure the idempotency of the request, which is generated by the client. Each request shall have a unique string with a maximum of 64 ASCII characters. If this parameter is not specified, the idempotency of the request cannot be ensured. For more information, please see <a href="#">How to Ensure Idempotency</a> .



Parameter Name	Required	Type	Description
HostName	No	String	<p>Server name of CVM.</p> <ul style="list-style-type: none"> <li>Period (.) and hyphen (-) cannot be used as the first and the last character of HostName, and multiple consecutive hyphens (-) or periods (.) are not allowed.</li> <li>Windows instance: The name should be a combination of 2 to 15 characters comprised of letters (case insensitive), numbers, and hyphens (-). Period (.) is not supported, and the name cannot be a string of pure numbers.</li> <li>Other types (such as Linux) of instances: The name should be a combination of 2 to 30 characters, supporting multiple periods (.). The piece between two periods is composed of letters (case insensitive), numbers, and hyphens (-).</li> </ul>
TagSpecification.N	No	Array of <a href="#">TagSpecification</a>	Tag description list. This parameter is used to bind a tag to a resource instance. A tag can only be bound to CVM instances.
InstanceMarketOptions	No	<a href="#">InstanceMarketOptionsRequest</a>	Market-related options for instances, such as parameters related to spot instances

### 3. Output Parameters

Parameter Name	Type	Description
Price	<a href="#">Price</a>	Indicates the price of the instance with specified configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
AccountQualificationRestrictions	The request account failed to pass the eligibility verification.
InstancesQuotaLimitExceeded	The number of created instances exceeds the remaining quota allowed for the account.
InvalidClientToken.TooLong	The specified ClientToken exceeds the maximum length of 64 bytes.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to the request account.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidInstanceType.Malformed	The format of the specified parameter InstanceType is invalid.
InvalidParameterCombination	Indicates that the parameter combination is incorrect.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.Range	Invalid parameter value. The parameter value range is invalid.
InvalidPassword	Invalid password. The specified password does not conform to the rule of password complexity. For example, the password length does not meet the requirement.
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
InvalidPermission	The operation is not supported for the account.
InvalidZone.MismatchRegion	The specified zone does not exist.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Price inquiry for the purchase with simple parameters

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceRunInstances
&Placement.Zone=ap-guangzhou-2
&ImageId=img-pmqg1cw8
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "ChargeUnit": "HOURL",
        "UnitPrice": "0.34"
      }
    },
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

### Example 2 Price inquiry for the purchase of instances on a prepaid basis

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceRunInstances
&Placement.Zone=ap-guangzhou-2
&InstanceChargeType=PREPAID
&InstanceChargePrepaid.Period=1
&InstanceChargePrepaid.RenewFlag=NOTIFY_AND_AUTO_RENEW
&ImageId=img-pmqg1cw7
&InstanceType=S1.SMALL1
&SystemDisk.DiskType=LOCAL_BASIC
&SystemDisk.DiskSize=50
&DataDisks.0.DiskType=LOCAL_BASIC
&DataDisks.0.DiskSize=100
&InternetAccessible.InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR
&InternetAccessible.InternetMaxBandwidthOut=10
&InternetAccessible.PublicIpAssigned=TRUE
&InstanceName=QCLOUD-TEST
&LoginSettings.Password=Qcloud@TestApi123++
&EnhancedService.SecurityService.Enabled=TRUE
&EnhancedService.MonitorService.Enabled=TRUE
&InstanceCount=1
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "Price": {
      "BandwidthPrice": {
        "ChargeUnit": "GB",
        "UnitPrice": "0.80"
      },
      "InstancePrice": {
        "DiscountPrice": "45.00",
        "OriginalPrice": "45.00"
      }
    },
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

### Example 3: Price inquiry for the purchase of instances on an hourly and postpaid basis

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceRunInstances
&Placement.Zone=ap-guangzhou-2
&InstanceChargeType=POSTPAID_BY_HOUR
&ImageId=img-pmqg1cw7
&InstanceType=S1.SMALL1
&SystemDisk.DiskType=LOCAL_BASIC
&SystemDisk.DiskSize=50
&DataDisks.0.DiskType=LOCAL_BASIC
&DataDisks.0.DiskSize=100
&InternetAccessible.InternetChargeType=TRAFFIC_POSTPAID_BY_HOUR
&InternetAccessible.InternetMaxBandwidthOut=10
&InternetAccessible.PublicIpAssigned=TRUE
&InstanceName=QCLOUD-TEST
&LoginSettings.Password=Qcloud@TestApi123++
&EnhancedService.SecurityService.Enabled=TRUE
&EnhancedService.MonitorService.Enabled=TRUE
&InstanceCount=1
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "Price": {
      "BandwidthPrice": {
        "ChargeUnit": "GB",
```

```
"UnitPrice": "0.80"  
},  
"InstancePrice": {  
  "ChargeUnit": "HOURLY",  
  "UnitPrice": "0.34"  
}  
},  
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"  
}  
}
```

# StartInstances

Last updated : 2018-10-12 16:02:28

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (StartInstances) is used to start one or more instances.

- This operation is only allowed for the instances with a status of `STOPPED` .
- When the API is called successfully, the instance goes into the `STARTING` status. When started, it goes into the `RUNNING` status.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: StartInstances
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>Instanceid</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.

## 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Start an instance with a specified ID

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=StartInstances
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&<Common request parameters>
```

#### Output example

```
{  
  "Response": {  
    "RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"  
  }  
}
```



# StopInstances

Last updated : 2018-10-12 16:02:27

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (StopInstances) is used to shut down one or more instances.

- This operation is only allowed for the instances with a status of `RUNNING`.
- When the API is called successfully, the instance goes into the `STOPPING` status. When the instance is shut down, it goes into the `STOPPED` status.
- Forced shutdown is supported. Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system. Be sure to perform forced shutdown only when the server cannot be shut down normally.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: StopInstances
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.

Parameter Name	Required	Type	Description
ForceStop	No	Boolean	Whether to perform a forced shutdown on the instance in case of a failure of normal shutdown. Supported values: <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown</li> <li>FALSE: Do not perform a forced shutdown</li> </ul> Default: FALSE.
StopType	No	String	Instance shutdown mode. Supported values: <ul style="list-style-type: none"> <li>SOFT_FIRST: Perform a forced shutdown in case of a failure of normal shutdown</li> <li>HARD: Perform a forced shutdown directly</li> <li>SOFT: Soft shutdown</li> </ul> Default: SOFT.
StoppedMode	No	String	Shutdown billing mode <ul style="list-style-type: none"> <li>KEEP_CHARGING: Keep charging after shutdown</li> <li>STOP_CHARGING: Stop charging after shutdown</li> </ul> Default: KEEP_CHARGING.

### 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.

Error Code	Description
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Shut down an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=StopInstances
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&ForceStop=FALSE
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# RebootInstances

Last updated : 2018-10-12 16:02:34

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (RebootInstances) is used to restart an instance.

- This operation is only allowed for the instances with a status of `RUNNING`.
- When the API is called successfully, the instance goes into the `REBOOTING` status. When restarted, it goes into the `RUNNING` status.
- Forced restart is supported. Just like restarting a physical PC after a power-off, a forced restart may cause data loss or the corruption of file system. Be sure to perform forced restart only when the server cannot be restarted normally.
- Batch operations are supported. The maximum number of instances in a batch for each request is 100.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>RebootInstances</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.

Parameter Name	Required	Type	Description
ForceReboot	No	Boolean	<p>Whether to perform a forced restart on the instance in case of a failure of normal restart. Supported values:</p> <ul style="list-style-type: none"> <li>TRUE: Perform a forced restart</li> <li>FALSE: Do not perform a forced restart</li> </ul> <p>Default: FALSE.</p>

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Restart an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=RebootInstances
&InstanceId.0=ins-r8hr2upy
&InstanceId.1=ins-5d8a23rs
&ForceReboot=FALSE
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# ResetInstance

Last updated : 2018-10-12 16:02:33

## 1. API Description

Domain name for API request: cvm.tencentcloudapi.com

This API (ResetInstance) is used to reinstall the operating system for the specified instance.

- If you have specified `ImageId` parameter, the re-installation is performed with the specified image. Otherwise, the image used by the current instance is used.
- The system disk will be formatted and reset. Please ensure that there is no important file in the system disk.
- As the operating system is switched between `Linux` and `Windows`, the system disk `ID` of the instance will change, and the snapshot associated with the system disk cannot be rolled back to recover data.
- If no password is specified, a password is issued randomly via internal message.
- You can use this API to switch operating system between `Linux` and `Windows` only for the instances with a [system disk type](#) of `CLOUD_BASIC`, `CLOUD_PREMIUM` and `CLOUD_SSD`.
- For the instances in overseas regions, this operation is not supported.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ResetInstance</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	Instance ID You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> .

Parameter Name	Required	Type	Description
ImageId	No	String	<p>Specifies a valid <a href="#">image</a> ID, such as <code>img-xxx</code>. There are four types of images:</p> <ul style="list-style-type: none"> <li>Public image</li> <li>Custom image</li> <li>Shared image</li> <li>Marketplace image</li> </ul> <p>You can obtain the available image IDs by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the image ID of a <code>public image</code>, <code>custom image</code> or <code>shared image</code> by logging in to the <a href="#">Console</a>; query the image ID of a <code>marketplace image</code> via <a href="#">Cloud Marketplace</a>.</li> <li>Call the API <a href="#">DescribeImages</a> to obtain the <code>ImageId</code> field value in the returned result.</li> </ul>
SystemDisk	No	<a href="#">SystemDisk</a>	<p>Configuration information of the system disk in the instance. For the instances with a cloud disk as the system disk, you can specify the system disk capacity after re-installation using this parameter to allow the capacity expansion of the system disk. If the parameter is not specified, the system disk capacity remains unchanged by default. You can only expand the system disk capacity (capacity reduction is not supported for a system disk). Re-installing the system can only modify the system disk capacity, and cannot modify the system disk type.</p>
LoginSettings	No	<a href="#">LoginSettings</a>	<p>Login settings of an instance. This parameter is used to set the instance login method, password and key, or to keep the original login settings of image. By default, a password is generated randomly and notified to the user via internal message.</p>
EnhancedService	No	<a href="#">EnhancedService</a>	<p>Enables enhanced services. This parameter is used to specify whether to enable Cloud Security, Cloud Monitor and other services. If this parameter is not specified, Cloud Monitor and Cloud Security services are enabled by default.</p>

### 3. Output Parameters

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



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

## 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Reinstall an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ResetInstance
&InstanceId=ins-r8hr2upy
&ImageId=img-pmqg1cw7
&SystemDisk.DiskSize=60
&LoginSettings.Password=Qcloud@TestApi123++
&EnhancedService.SecurityService.Enabled=TRUE
&EnhancedService.MonitorService.Enabled=TRUE
&<Common request parameters>
```

#### Output example

```
{  
  "Response": {  
    "RequestId": "a0a66377-b79f-4a21-846c-d997d6022968"  
  }  
}
```

# InquiryPriceResetInstance

Last updated : 2018-10-12 16:02:43

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`InquiryPriceResetInstance`) is used to inquire the prices of reinstalled instances. *If you have specified `ImageId` parameter, the price inquiry is performed with the specified image. Otherwise, the image used by the current instance is used.* You can use this API to inquire prices after the operating system switch between `Linux` and `Windows` only for the instances with a `system disk type` of `CLOUD_BASIC`, `CLOUD_PREMIUM` and `CLOUD_SSD`. \* For the instances in overseas regions, this operation is not supported.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>InquiryPriceResetInstance</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceId</code>	Yes	String	Instance ID You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> .

Parameter Name	Required	Type	Description
ImageId	No	String	<p>Specifies a valid <a href="#">image</a> ID, such as <code>img-xxx</code>. There are four types of images:</p> <ul style="list-style-type: none"> <li>Public image</li> <li>Custom image</li> <li>Shared image</li> <li>Marketplace image</li> </ul> <p>You can obtain the available image IDs by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the image ID of a <code>public image</code>, <code>custom image</code> or <code>shared image</code> by logging in to the <a href="#">Console</a>; query the image ID of a <code>marketplace image</code> via <a href="#">Cloud Marketplace</a>.</li> <li>Call the API <a href="#">DescribeImages</a> to obtain the <code>ImageId</code> field value in the returned result.</li> </ul>
SystemDisk	No	<a href="#">SystemDisk</a>	<p>Configuration information of the system disk in the instance. For the instances with a cloud disk as the system disk, you can specify the system disk capacity after re-installation using this parameter to allow the capacity expansion of the system disk. If the parameter is not specified, the system disk capacity remains unchanged by default. You can only expand the system disk capacity (capacity reduction is not supported for a system disk). Re-installing the system can only modify the system disk capacity, and cannot modify the system disk type.</p>
LoginSettings	No	<a href="#">LoginSettings</a>	<p>Login settings of an instance. This parameter is used to set the instance login method, password and key, or to keep the original login settings of image. By default, a password is generated randomly and notified to the user via internal message.</p>
EnhancedService	No	<a href="#">EnhancedService</a>	<p>Enables enhanced services. This parameter is used to specify whether to enable Cloud Security, Cloud Monitor and other services. If this parameter is not specified, Cloud Monitor and Cloud Security services are enabled by default.</p>

### 3. Output Parameters

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

Parameter Name	Type	Description
Price	Price	Indicates the price of the reinstalled instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Inquire the price of a postpaid instance after adjusting its configuration

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceResetInstancesType
&InstanceId=ins-fd8spnmg
InternetAccessible.InternetMaxBandwidthOut=20
&<Common request parameters>
```

#### Output example

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

```
"Price": {  
  "InstancePrice": {  
    "ChargeUnit": "HOURL",  
    "UnitPrice": 0.66  
  }  
},  
"RequestId": "56d68b92-7004-4716-b3bf-3c2c231035c9"  
}
```

# ResetInstancesPassword

Last updated : 2018-10-12 16:02:31

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ResetInstancesPassword`) is used to reset the password of the instance operating system to a user-defined one.

- This API only modifies the password of administrator account. The administrator account ID varies with the operating system of instance ( `Administrator` for `Windows` , `ubuntu` for `Ubuntu` , and `root` for other systems).
- To reset the password for a running instance, you need to explicitly specify the parameter `ForceStop` for a forced shutdown. If not, you can only reset password for the instances that have been shut down.
- Batch operations are supported. Reset the passwords of multiple instance operating systems to the same value. A maximum of 100 instances are allowed in a batch for each request.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>ResetInstancesPassword</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceIds.N</code>	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed for each request.

Parameter Name	Required	Type	Description
Password	Yes	String	<p>Instance login password. Password complexity requirement varies with different operating systems, as shown below:</p> <ul style="list-style-type: none"> <li>• Password for a Linux instance should be a combination of 8 to 16 characters comprised of at least two of the following types: [a-z, A-Z], [0-9], and [() ~ ~ ! @ # \$ % ^ &amp; * - + = _ &amp;#124; { } [ ] ; ; ' &lt; &gt; , . ? /]. The password cannot start with /.</li> <li>• The password for a Windows instance should be a combination of 12-16 characters comprised of at least three of the following types: [a-z], [A-Z], [0-9], and [() ~ ~ ! @ # \$ % ^ &amp; * - + = _ &amp;#124; { } [ ] ; ; ' &lt; &gt; , . ? /]. The password cannot start with /.</li> <li>• If both Linux and Windows instances are included, the password complexity is subject to the requirement for a Windows instance.</li> </ul>
UserName	No	String	Username of the instance operating system for which the password needs to be reset. It cannot exceed 64 characters.
ForceStop	No	Boolean	<p>Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values:</p> <ul style="list-style-type: none"> <li>• TRUE: Perform a forced shutdown</li> <li>• FALSE: Do not perform a forced shutdown</li> </ul> <p>Default: FALSE.</p> <p>Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system. Be sure to perform forced shutdown only when the server cannot be shut down normally.</p>

### 3. Output Parameters

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

### 4. Error Codes



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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.
InvalidPassword	Invalid password. The specified password does not conform to the rule of password complexity. For example, the password length does not meet the requirement.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Reset a password for a Linux/Windows instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ResetInstancesPassword
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&Password=abc123ABC!@#
&ForceStop=TRUE
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
```

```
}  
}
```

# TerminateInstances

Last updated : 2018-10-12 16:02:26

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (TerminateInstances) is used to return instances.

- The instances that are no longer used can be returned via this API.
- Postpaid instances can be directly returned via this API; the prepaid instances that meet the [rules for returning instances](#) can also be returned via this API.
- Batch operations are supported. The maximum number of instances in a batch for each request is 100.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: TerminateInstances
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the InstanceId field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.

## 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceNotSupportedPrepaidInstance	The prepaid instance is not supported by the <a href="#">rules for returning instances</a> .
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Terminate the instance with the specified ID

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=TerminateInstances
&InstanceId.0=ins-r8hr2upy
&InstanceId.1=ins-5d8a23rs
&<Common request parameters>
```

#### Output example

```
{  
  "Response": {  
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"  
  }  
}
```

# DescribeInstances

Last updated : 2018-10-12 16:02:48

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInstances`) is used to query the details of one or more instances.

- You can query the details of an instance according to its `ID` , name, or billing method. See `Filter` for filtering information.
- If the parameter is empty, a certain number (specified by `Limit` , the default is 20) of instances are returned to the current user.

A maximum of 40 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>DescribeInstances</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: 2017-03-12
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceIds.N</code>	No	Array of String	Query by one or more instance IDs, such as <code>ins-11112222</code> . (For the format of this parameter, please see the <code>id.N</code> section in the <a href="#">API Introduction</a> ). A maximum of 100 instances are allowed for each request. The parameter does not support specifying both <code>InstanceIds</code> and <code>Filters</code> .

Parameter Name	Required	Type	Description
Filters.N	No	Array of Filter	<p>Filter conditions.</p> <ul style="list-style-type: none"> <li>zone - String - Required: No - (Filter condition) Filter by availability zone.</li> <li>project-id - Integer - Required: No - (Filter condition) Filter by project ID. You can view the list of created projects by calling <a href="#">DescribeProject</a> or by logging in to the <a href="#">console</a>. You can also create a new project by calling <a href="#">AddProject</a>.</li> <li>host-id - String - Required: No - (Filter condition) Filter by CDH ID. Example of a CDH ID: host-11112222.</li> <li>instance-id - String - Required: No - (Filter condition) Filter by instance ID. Example of an instance ID: ins-11112222 .</li> <li>instance-name - String - Required: No - (Filter condition) Filter by instance name.</li> <li>instance-charge-type - String - Required: No - (Filter condition) Filter by instance billing method. (PREPAID: prepaid (by year/month)  POSTPAID_BY_HOUR: postpaid (by traffic)   CDHPAID: CDH paid, i.e., only pay for CDH, excluding instances on the CDH. )</li> <li>private-ip-address - String - Required: No - (Filter condition) Filter by the private IP of the instance primary ENI.</li> <li>public-ip-address - String - Required: No - (Filter condition) Filter by the public IP of the instance primary ENI, including the IP automatically assigned when an instance is being created and the EIP manually bound after the instance has been created.</li> <li>tag-key - String - Required: No - (Filter condition) Filter by tag key.</li> <li>tag-value - String - Required: No - (Filter condition) Filter by tag value.</li> <li>tag:tag-key - String - Required: No - (Filter condition) Filter by tag key-value pair. The tag-key is replaced with the specific tag key. See Example 2 for usage.</li> </ul> <p>The maximum number of Filters for each request is 10, and that of Filters.Values is 5. The parameter does not support specifying both InstanceIds and Filters .</p>
Offset	No	Integer	Offset. Default is 0. For more information about Offset , please see the relevant section in API <a href="#">Introduction</a> .
Limit	No	Integer	Number of values to be returned. Default is 20. Maximum is 100. For more information about Limit , please see the relevant section in API <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instances matching the filter condition.
InstanceSet	Array of <a href="#">Instance</a>	List of details of an instance.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	<a href="#">Filter</a> Number of parameter values exceeds the limit.
InvalidHostId.Malformed	Invalid <a href="#">CDH ID</a> . The specified <a href="#">CDH ID</a> is in an incorrect format. For example, <code>host-1122</code> has an invalid <a href="#">ID</a> length.
InvalidInstanceId.Malformed	Invalid instance <a href="#">ID</a> . Specified instance <a href="#">ID</a> is not in a correct format. For example, <code>ins-1122</code> has an invalid instance <a href="#">ID</a> length.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
InvalidZone.MismatchRegion	The specified <a href="#">zone</a> does not exist.

## 5. Example

### Example 1 View the list of instances

#### Input example



```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-1
&Filters.0.Values.1=ap-guangzhou-2
&Offset=0
&Limit=1
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "InstanceSet": [
      {
        "CPU": 1,
        "CreatedTime": "2016-12-02T00:22:40Z",
        "DataDisks": [
          {
            "DiskId": "disk-4rnslb35",
            "DiskSize": 50,
            "DiskType": "CLOUD_BASIC"
          }
        ],
        "ExpiredTime": "2017-01-02T00:22:48Z",
        "ImageId": "img-0vbqvzfn",
        "InstanceChargeType": "PREPAID",
        "InstanceId": "ins-r8hr2upy",
        "InstanceName": "Test instance",
        "InstanceType": "S1.SMALL2",
        "InternetAccessible": {
          "InternetChargeType": "BANDWIDTH_PREPAID",
          "InternetMaxBandwidthOut": 2,
          "PublicIpAssigned": "TRUE"
        },
        "Memory": 2,
        "Placement": {
          "HostId": "",
          "ProjectId": 0,
          "Zone": "ap-guangzhou-1"
        },
        "PrivateIpAddresses": [
          "10.104.37.58"
        ],
        "PublicIpAddresses": [
          "123.207.32.83"
        ],
        "RenewFlag": "NOTIFY_AND_AUTO_RENEW",
```

```
"SystemDisk": {
  "DiskId": "disk-4rnslbwq",
  "DiskSize": 20,
  "DiskType": "CLOUD_BASIC"
},
"VirtualPrivateCloud": {
  "AsVpcGateway": "TRUE",
  "SubnetId": "subnet-6d7kj98i",
  "VpcId": "vpc-4e78ea76"
}
},
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7",
"TotalCount": 2
}
```

## Example 2 Query instances bound with tags

### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances
&Filters.0.Name=tag:city
&Filters.0.Values.0=shenzhen
&Offset=0
&Limit=1
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "InstanceSet": [
      {
        "CPU": 1,
        "CreatedTime": "2016-12-02T00:22:40Z",
        "DataDisks": [
          {
            "DiskId": "disk-4rnslb35",
            "DiskSize": 50,
            "DiskType": "CLOUD_BASIC"
          }
        ],
        "ExpiredTime": "2017-01-02T00:22:48Z",
        "ImageId": "img-0vbqvzfn",
        "InstanceChargeType": "PREPAID",
        "InstanceId": "ins-r8hr2upy",
```

```
"InstanceName": "Test instance",
"InstanceType": "S1.SMALL2",
"InternetAccessible": {
"InternetChargeType": "BANDWIDTH_PREPAID",
"InternetMaxBandwidthOut": 2,
"PublicIpAssigned": "TRUE"
},
"Memory": 2,
"Placement": {
"HostId": "",
"ProjectId": 0,
"Zone": "ap-guangzhou-1"
},
"PrivateIpAddresses": [
"10.104.37.58"
],
"PublicIpAddresses": [
"123.207.32.83"
],
"RenewFlag": "NOTIFY_AND_AUTO_RENEW",
"SystemDisk": {
"DiskId": "disk-4rnslbwq",
"DiskSize": 20,
"DiskType": "CLOUD_BASIC"
},
"Tags": [
{
"tagKey": "city",
"tagValue": "shenzhen"
}
],
"VirtualPrivateCloud": {
"AsVpcGateway": "TRUE",
"SubnetId": "subnet-6d7kj98i",
"VpcId": "vpc-4e78ea76"
}
},
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7",
"TotalCount": 1
}
```

# DescribeInstancesStatus

Last updated : 2018-10-12 16:02:47

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInstancesStatus`) is used to query the status of one or more instances.

- You can query the status of an instance according to its `ID` .
- If the parameter is empty, the status of a certain number (specified by `Limit`, the default is 20) of instances is returned to the current user.

A maximum of 40 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>DescribeInstancesStatus</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: 2017-03-12
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceIds.N</code>	No	Array of String	Query by one or more instance IDs, such as <code>ins-11112222</code> . For the format of this parameter, please see the <code>id.N</code> section in the API <a href="#">Introduction</a> . A maximum of 100 instances are allowed for each request.
<code>Offset</code>	No	Integer	Offset. Default is 0. For more information about <code>Offset</code> , please see the relevant section in API <a href="#">Introduction</a> .

Parameter Name	Required	Type	Description
Limit	No	Integer	Number of values to be returned. Default is 20. Maximum is 100. For more information about <code>Limit</code> , please see the relevant section in API <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of instance statuses matching the filter condition.
InstanceStatusSet	Array of <a href="#">InstanceStatus</a>	<a href="#">Instance status</a> list.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstanceId.Malformed	Invalid instance ID. Specified instance ID is not in a correct format. For example, <code>ins-1122</code> has an invalid instance ID length.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.

### 5. Example

#### Example 1 View the instance status list

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstancesStatus
&InstanceId.0=ins-r8hr2upy
&InstanceId.1=ins-5d8a23rs
&Offset=0
&Limit=2
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "InstanceStatusSet": [
      {
        "InstanceId": "ins-r8hr2upy",
        "InstanceState": "RUNNING"
      },
      {
        "InstanceId": "ins-5d8a23rs",
        "InstanceState": "STOPPED"
      }
    ],
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7",
    "TotalCount": 2
  }
}
```

# ModifyInstancesAttribute

Last updated : 2018-10-12 16:02:38

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyInstancesAttribute`) is used to modify the attributes of an instance (only the modification to instance name is supported).

- "Instance name" is only used by users for their management. Tencent Cloud does not use the name as the basis for ticket submission or instance management.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>ModifyInstancesAttribute</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceIds.N</code>	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed for each request.
<code>InstanceName</code>	No	String	Instance name. It is limited to 60 characters.
<code>SecurityGroups.N</code>	No	Array of String	Specifies the list of security group IDs for the instance.

### 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceName.TooLong	The specified InstanceName exceeds the maximum length of 60 bytes.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

### 5. Example

#### Example 1 Modify instance name

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyInstancesAttribute
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
```



```
&InstanceName=Mysql_Server  
&<Common request parameters>
```

**Output example**

```
{  
  "Response": {  
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"  
  }  
}
```

# ModifyInstancesProject

Last updated : 2018-10-12 16:02:36

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyInstancesProject`) is used to modify the project to which an instance belongs.

- Project is a virtual concept. Users can create multiple projects under one account to manage different resources in each project, and assign different instances to different projects. The API [DescribeInstances](#) can be used to query instances and the project ID can be used to filter the results.
- The project of the instances bound with load balancers cannot be modified until the load balancers are unbound using the API [DeregisterInstancesFromLoadBalancer](#).
- The security groups associated with the instances are automatically disassociated when the project of the instances is modified. You can use the API [ModifySecurityGroupsOfInstance](#) to associate security groups after modification.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ModifyInstancesProject</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the InstanceId field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed for each request.
ProjectId	Yes	Integer	Project ID. A project can be created using the API <a href="#">AddProject</a> . During the query of instances using the API <a href="#">DescribeInstances</a> , the project ID can be used to filter the results.

### 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Modify the project to which two instances belong

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyInstancesProject
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&ProjectId=1045
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# ResetInstancesType

Last updated : 2018-10-12 16:02:30

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ResetInstancesType`) is used to adjust the model of an instance.

- Using this API for adjusting models is only supported for the instances with a [system disk type](#) of `CLOUD_BASIC`, `CLOUD_PREMIUM` and `CLOUD_SSD`.
- This API cannot be used to adjust the models of [CDH](#) instances. *Model adjustment is not supported for different models and systems, which means that the `InstanceType` specified when you use this API and the original instance model must be in the same series.* For prepaid instances, you will be charged a fee for using this API, so make sure to keep sufficient balance in your account. You can query the account balance via API [DescribeAccountBalance](#).

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ResetInstancesType</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 1 instances are allowed in a batch for each request.

Parameter Name	Required	Type	Description
InstanceType	Yes	String	Instance model. Different resource specifications are specified for different instance models. For specific values, please see the table of instance resource specifications. You can also obtain the latest specification list using the API for querying the list of instance resource specifications.
ForceStop	No	Boolean	<p>Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values:</p> <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown</li> <li>FALSE: Do not perform a forced shutdown</li> </ul> <p>Default: FALSE.</p> <p>Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system. Be sure to perform forced shutdown only when the server cannot be shut down normally.</p>

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.

Error Code	Description
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPermission	The operation is not supported for the account.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Reset the instance model

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ResetInstancesType
&InstanceIds.0=ins-r8hr2upy
&InstanceType=S1.LARGE4
&DryRun=FALSE
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
  }
}
```

# InquiryPriceResetInstancesType

Last updated : 2018-10-12 16:02:41

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`InquiryPriceResetInstancesType`) is used to inquire the price of adjusting the model of an instance.

- Using this API for inquiring the prices of adjusted models is only supported for the instances with a [system disk type](#) of `CLOUD_BASIC`, `CLOUD_PREMIUM` and `CLOUD_SSD`.
- This API cannot be used to inquire the prices of adjusting the models of [CDH](#) instances.
- Model adjustment is not supported for different models and systems, which means that the `InstanceType` specified when you use this API and the original instance model must be in the same series.
- For prepaid instances, you will be charged a fee for using this API, so make sure to keep sufficient balance in your account. You can query the account balance via API [DescribeAccountBalance](#).

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>InquiryPriceResetInstancesType</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 1 instances are allowed in a batch for each request.



Parameter Name	Required	Type	Description
InstanceType	Yes	String	Instance model. Different resource specifications are specified for different instance models. For specific values, please see the table of instance resource specifications. You can also obtain the latest specification list using the API for querying the list of instance resource specifications.
ForceStop	No	Boolean	<p>Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values:</p> <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown</li> <li>FALSE: Do not perform a forced shutdown</li> </ul> <p>Default: FALSE.</p> <p>Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system. Be sure to perform forced shutdown only when the server cannot be shut down normally.</p>

### 3. Output Parameters

Parameter Name	Type	Description
Price	<a href="#">Price</a>	The price of the adjusted instance model.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.

Error Code	Description
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPermission	The operation is not supported for the account.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Inquire the price of adjusting the configuration of a prepaid instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceResetInstancesType
&InstanceIds.0=ins-2zvpghhc
&InstanceType=S1.SMALL4
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "DiscountPrice": "67.33",
        "OriginalPrice": "67.33"
      }
    },
    "RequestId": "d9f36a23-7bc4-4f02-99c5-00b4a77431df"
  }
}
```

# ResizeInstanceDisks

Last updated : 2018-10-12 16:02:29

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ResizeInstanceDisks`) is used to expand the capacity of the data disk of an instance.

- Capacity expansion is only available to the data disk purchased with the instance, and the [data disk type](#) can be `CLOUD_BASIC`, `CLOUD_PREMIUM`, or `CLOUD_SSD`. \* This API cannot be used to expand the capacity of data disks for [CDH](#) instances.
- For prepaid instances, you will be charged a fee for using this API, so make sure to keep sufficient balance in your account. You can query the account balance via API [DescribeAccountBalance](#).
- Only one data disk is allowed for capacity expansion.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ResizeInstanceDisks</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	IDs of instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> .

Parameter Name	Required	Type	Description
DataDisks.N	Yes	Array of <a href="#">DataDisk</a>	Configuration information of the data disk whose capacity is to be expanded. Capacity expansion is only available to the data disk purchased with the instance, and the <a href="#">data disk type</a> can be <code>CLOUD_BASIC</code> , <code>CLOUD_PREMIUM</code> , or <code>CLOUD_SSD</code> . Data disk capacity is calculated in GB. Minimum increment of capacity expansion is 10 GB. For information on how to choose a data disk type, please see <a href="#">Disk Product Overview</a> . The available types of data disks are subject to the instance type ( <code>InstanceType</code> ). In addition, the maximum capacity allowed for expansion varies with different types of data disks.
ForceStop	No	Boolean	<p>Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values:</p> <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown</li> <li>FALSE: Do not perform a forced shutdown</li> </ul> <p>Default: FALSE.</p> <p>Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system. Be sure to perform forced shutdown only when the server cannot be shut down normally.</p>

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.

Error Code	Description
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Resize a disk with a specified ID

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ResizeInstanceDisks
&InstanceId=ins-r8hr2upy
&DataDisks.0.DiskSize=100
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
  }
}
```

# InquiryPriceResizeInstanceDisks

Last updated : 2018-10-12 16:02:40

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`InquiryPriceResizeInstanceDisks`) is used to inquiry the price of data disk capacity expansion of the instance.

- Only the data disk purchased with the instance is supported for the price inquiry of capacity expansion, and the [data disk type](#) can be `CLOUD_BASIC` , `CLOUD_PREMIUM` , or `CLOUD_SSD` .
- This API cannot be used to inquiry the price of expanding the capacity of data disks for [CDH](#) instances. *Only data disks purchased along with prepaid instances are supported.* Inquiring the price of expanding the capacity of only one data disk is supported.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>InquiryPriceResizeInstanceDisks</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceIds</code>	Yes	String	IDs of instances you are working with. You can obtain the parameter value from the <code>InstanceIds</code> field value in the returned result of API <a href="#">DescribeInstances</a> .

Parameter Name	Required	Type	Description
DataDisks.N	Yes	Array of <a href="#">DataDisk</a>	Configuration information of the data disk whose capacity is to be expanded. Capacity expansion is only available to the data disk purchased with the instance, and the <a href="#">data disk type</a> can be <code>CLOUD_BASIC</code> , <code>CLOUD_PREMIUM</code> , or <code>CLOUD_SSD</code> . Data disk capacity is calculated in GB. Minimum increment of capacity expansion is 10 GB. For information on how to choose a data disk type, please see <a href="#">Disk Product Overview</a> . The available types of data disks are subject to the instance type ( <code>InstanceType</code> ). In addition, the maximum capacity allowed for expansion varies with different types of data disks.
ForceStop	No	Boolean	Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values: <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown</li> <li>FALSE: Do not perform a forced shutdown</li> </ul> Default: FALSE.  Just like powering off a physical PC, a forced shutdown may cause data loss or the corruption of file system. Be sure to perform forced shutdown only when the server cannot be shut down normally.

### 3. Output Parameters

Parameter Name	Type	Description
Price	<a href="#">Price</a>	The price of expanding the capacity of the disk to a proper configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
------------	-------------

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceld.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceld.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Inquire the price of disk capacity expansion for a postpaid instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceResizeInstanceDisks
&Instanceld=ins-fd8spnmq
&DataDisks.0.DiskSize=100
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "ChargeUnit": "HOURL",
        "UnitPrice": 0.46
      }
    },
    "RequestId": "d63b4f53-335b-49fb-9aa1-1716bb9276f6"
  }
}
```



# DescribeInstanceFamilyConfigs

Last updated : 2018-10-12 16:02:51

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInstanceFamilyConfigs`) is used to query the list of model families supported by the current user and region.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeInstanceFamilyConfigs</code>
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

## 3. Output Parameters

Parameter Name	Type	Description
InstanceFamilyConfigSet	Array of <a href="#">InstanceFamilyConfig</a>	List of instance model family configurations
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidRegion.NotFound	The region cannot be found.

## 5. Example

### Example 1 Query the information on supported instance model families

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstanceFamilyConfigs
&Region=ap-guangzhou
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "InstanceFamilyConfigSet": [
      {
        "InstanceFamily": "S1",
        "InstanceFamilyName": "Standard S1"
      },
      {
        "InstanceFamily": "N1",
        "InstanceFamilyName": "Network optimized N1"
      },
      {
        "InstanceFamily": "I1",
        "InstanceFamilyName": "High IO I1"
      },
      {
        "InstanceFamily": "M1",
        "InstanceFamilyName": "MEM optimized M1"
      }
    ]
  }
}
```

```
{
  "InstanceFamily": "S2",
  "InstanceFamilyName": "Standard S2"
},
{
  "InstanceFamily": "SN2",
  "InstanceFamilyName": "Standard SN2"
},
{
  "InstanceFamily": "I2",
  "InstanceFamilyName": "High IO I2"
},
{
  "InstanceFamily": "M2",
  "InstanceFamilyName": "MEM optimized M2"
},
{
  "InstanceFamily": "C2",
  "InstanceFamilyName": "Computing C2"
},
{
  "InstanceFamily": "CN2",
  "InstanceFamilyName": "Computing CN2"
},
{
  "InstanceFamily": "S3",
  "InstanceFamilyName": "Standard S3"
},
{
  "InstanceFamily": "C3",
  "InstanceFamilyName": "Computing C3"
},
{
  "InstanceFamily": "FX2",
  "InstanceFamilyName": "FPGA FX2"
},
{
  "InstanceFamily": "GN2",
  "InstanceFamilyName": "GPU computing GN2"
},
{
  "InstanceFamily": "GA2",
  "InstanceFamilyName": "GPU rendering GA2"
},
{
  "InstanceFamily": "GN8",
  "InstanceFamilyName": "GPU computing GN8"
},
}
```

```
{
  "InstanceFamily": "CDH",
  "InstanceFamilyName": "Exclusive"
},
{
  "InstanceFamily": "SHARED",
  "InstanceFamilyName": "Shared core"
},
{
  "InstanceFamily": "SPECIAL",
  "InstanceFamilyName": "Special model"
},
{
  "InstanceFamily": "OTHER",
  "InstanceFamilyName": "Other"
}
],
"RequestId": "b061782b-934a-4e53-b1eb-d5f2fed8130e"
}
```

# DescribeInstanceTypeConfigs

Last updated : 2018-10-12 16:02:49

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInstanceTypeConfigs`) is used to query the instance model configuration.

- You can query the instance model configuration via `zone` and `instance-family`. Filter criteria can be found in `Filter`.
- If the parameter is empty, model configuration of all instances under the specified region are returned.

A maximum of 40 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeInstanceTypeConfigs</code>
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Filters.N	No	Array of <a href="#">Filter</a>	<p>Filter conditions.</p> <ul style="list-style-type: none"> <li><code>zone</code> - String - Required: No - (Filter condition) Filter by <a href="#">availability zone</a>.</li> <li><code>instance-family</code> - String - Required: No - (Filter condition) Filter by instance model series, such as S1, I1, and M1.</li> </ul> <p>The maximum number of <code>Filters</code> of each request is 10, and the maximum number of <code>Filter.Values</code> is 1.</p>

### 3. Output Parameters

Parameter Name	Type	Description
InstanceTypeConfigSet	Array of <a href="#">InstanceTypeConfig</a>	List of instance model configurations.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	<a href="#">Filter</a> Number of parameter values exceeds the limit.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidZone.MismatchRegion	The specified <a href="#">zone</a> does not exist.

### 5. Example

#### Example 1 Query the instance model list

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstanceTypeConfigs
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-2
&Filters.1.Name=instance-family
&Filters.1.Values.0=I1
&<Common request parameters>
```

##### Output example

```
{
  "Response": {
    "InstanceTypeConfigSet": [
      {
        "CPU": 2,
        "FPGA": 0,
        "GPU": 0,
        "InstanceFamily": "I1",
        "InstanceType": "I1.MEDIUM4",
        "Memory": 4,
        "Zone": "ap-guangzhou-2"
      },
      {
        "CPU": 2,
        "FPGA": 0,
        "GPU": 0,
        "InstanceFamily": "I1",
        "InstanceType": "I1.MEDIUM8",
        "Memory": 8,
        "Zone": "ap-guangzhou-2"
      },
      {
        "CPU": 2,
        "FPGA": 0,
        "GPU": 0,
        "InstanceFamily": "I1",
        "InstanceType": "I1.MEDIUM16",
        "Memory": 16,
        "Zone": "ap-guangzhou-2"
      },
      {
        "CPU": 4,
        "FPGA": 0,
        "GPU": 0,
        "InstanceFamily": "I1",
        "InstanceType": "I1.LARGE8",
        "Memory": 8,
        "Zone": "ap-guangzhou-2"
      }
    ],
    "RequestId": "2f1fd71e-95ab-4f10-8adb-895e99d33ff5"
  }
}
```

# RenewInstances

Last updated : 2018-10-12 16:02:33

## 1. API Description

Domain name for API request: [cvm.tencentcloudapi.com](https://cvm.tencentcloudapi.com)

This API (RenewInstances) is used to renew prepaid instances.

- Only the prepaid instances are supported.
- Make sure your account balance is sufficient for renewals. You can query the account balance via API [DescribeAccountBalance](#) .

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: [cvm.ap-shanghai-fsi.tencentcloudapi.com](https://cvm.ap-shanghai-fsi.tencentcloudapi.com)

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: RenewInstances
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the InstanceId field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.



Parameter Name	Required	Type	Description
InstanceChargePrepaid	Yes	<a href="#">InstanceChargePrepaid</a>	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the renewal length, whether to set automatic renewal and other attributes for the instance purchased on a prepaid basis.
RenewPortableDataDisk	No	Boolean	Whether to renew elastic data disks. Supported values: <ul style="list-style-type: none"> <li>TRUE: Indicates renewing the elastic data disks mounted to the instance when renewing a prepaid instance</li> <li>FALSE: Indicates not renewing the elastic data disks mounted to the instance when renewing a prepaid instance</li> </ul> Default: TRUE.

### 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.

Error Code	Description
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Renew an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=RenewInstances
&InstanceIds.0=ins-r8hr2upy
&InstanceChargePrepaid.Period=1
&InstanceChargePrepaid.RenewFlag=NOTIFY_AND_MANUAL_RENEW
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# InquiryPriceRenewInstances

Last updated : 2018-10-12 16:02:44

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`InquiryPriceRenewInstances`) is used to inquiry the price of prepaid instance renewal.

- Only supports querying the renewal price of the prepaid instances.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>InquiryPriceRenewInstances</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.

Parameter Name	Required	Type	Description
InstanceChargePrepaid	Yes	<a href="#">InstanceChargePrepaid</a>	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the renewal length, whether to set automatic renewal and other attributes for the instance purchased on a prepaid basis.
DryRun	No	Boolean	Dry run.
RenewPortableDataDisk	No	Boolean	Whether to renew elastic data disks. Supported values: <ul style="list-style-type: none"> <li>TRUE: Indicates renewing the elastic data disks mounted to the instance when renewing a prepaid instance</li> <li>FALSE: Indicates not renewing the elastic data disks mounted to the instance when renewing a prepaid instance</li> </ul> Default: TRUE.

### 3. Output Parameters

Parameter Name	Type	Description
Price	<a href="#">Price</a>	Indicates the price of the instance with specified configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.

Error Code	Description
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Inquire the price of renewing an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceRenewInstances
&InstanceIds.0=ins-2zvpghhc
&InstanceChargePrepaid.Period=1
&InstanceChargePrepaid.RenewFlag=NOTIFY_AND_MANUAL_RENEW
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "DiscountPrice": "1.20",
        "OriginalPrice": "120.00"
      }
    },
    "RequestId": "e2e81b08-d747-455e-b27a-aecc5acafdba"
  }
}
```

# ModifyInstancesRenewFlag

Last updated : 2018-10-12 16:02:36

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyInstancesRenewFlag`) is used to modify the renewal flags of prepaid instances.

- Any instance marked "Auto Renewal" is automatically renewed for one month whenever it expires.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ModifyInstancesRenewFlag</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the InstanceId field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed for each request.
RenewFlag	Yes String	<p>Auto renewal flag. Value range:</p> <ul style="list-style-type: none"> <li>NOTIFY_AND_AUTO_RENEW: notify expiry and renew automatically</li> <li>NOTIFY_AND_MANUAL_RENEW: notify expiry but not renew automatically</li> <li>DISABLE_NOTIFY_AND_MANUAL_RENEW: neither notify expiry nor renew automatically</li> </ul> <p>If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance will be automatically renewed on a monthly basis when the account balance is sufficient.</p>	

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.

Error Code	Description
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.

## 5. Example

### Example 1 Modify the renewal flags of two instances

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyInstancesRenewFlag
&InstanceIds.0=ins-r8hr2upy
&InstanceIds.1=ins-5d8a23rs
&RenewFlag=NOTIFY_AND_AUTO_RENEW
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```



# DescribeInstanceInternetBandwidthConfigs

Last updated : 2018-10-12 16:02:50

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInstanceInternetBandwidthConfigs`) is used to query the instance bandwidth configuration.

- Only query for the bandwidth configuration of instances with `BANDWIDTH_PREPAID` billing method is supported.
- All bandwidth configuration information (including historical bandwidth configuration information) of an instance is returned via the API.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeInstanceInternetBandwidthConfigs</code>
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	IDs of instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> .

## 3. Output Parameters

Parameter Name	Type	Description
InternetBandwidthConfigSet	Array of <a href="#">InternetBandwidthConfig</a>	List of bandwidth configurations.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Query instance bandwidth configuration

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstanceInternetBandwidthConfigs
&InstanceId=ins-6lafsaz0
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "InternetBandwidthConfigSet": [
      {
        "EndTime": "2017-04-12T16:00:00Z",
```

```
"InternetAccessible": {  
  "InternetChargeType": "BANDWIDTH_PREPAID",  
  "InternetMaxBandwidthOut": 50  
},  
"StartTime": "2017-03-12T16:00:00Z"  
}  
],  
"RequestId": "314161cd-ee40-4c37-921e-b10c4ed5607c"  
}  
}
```

# DescribeInternetChargeTypeConfigs

Last updated : 2018-10-12 16:02:46

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInternetChargeTypeConfigs`) is used to query the network billing type.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeInternetChargeTypeConfigs</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

## 3. Output Parameters

Parameter Name	Type	Description
InternetChargeTypeConfigSet	Array of <a href="#">InternetChargeTypeConfig</a>	Network billing type configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

## 5. Example

### Example 1 Query the network billing type

#### Input example

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

#### Output example

```
{
  "Response": {
    "InternetChargeTypeConfigSet": [
      {
        "Description": "Postpaid by month",
        "InternetChargeType": "BANDWIDTH_POSTPAID_BY_MONTH"
      },
      {
        "Description": "Bill by bandwidth",
        "InternetChargeType": "BANDWIDTH_PREPAID"
      },
      {
        "Description": "Bill by traffic",
        "InternetChargeType": "TRAFFIC_POSTPAID_BY_HOUR"
      },
      {
        "Description": "Bill by bandwidth usage time",
        "InternetChargeType": "BANDWIDTH_POSTPAID_BY_HOUR"
      },
      {
        "Description": "Bill by bandwidth package",
        "InternetChargeType": "BANDWIDTH_PACKAGE"
      }
    ],
    "RequestId": "c2abdac4-ea7b-4653-b07c-87cc303fabf0"
  }
}
```

# ResetInstancesInternetMaxBandwidth

Last updated : 2018-10-12 16:02:32

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ResetInstancesInternetMaxBandwidth`) is used to adjust the public network bandwidth cap of an instance.

- The bandwidth cap varies with different models. For more information, please see [Purchase Network Bandwidth](#).
- For a bandwidth with the `BANDWIDTH_PREPAID` billing method, the parameters `StartTime` and `EndTime` are required to specify the validity period of the adjusted bandwidth. Bandwidth downgrade is not supported in this scenario. Since fee deduction is involved, make sure to keep sufficient balance in your account. You can query the account balance via API [DescribeAccountBalance](#).
- For a bandwidth with the `TRAFFIC_POSTPAID_BY_HOUR`, the `BANDWIDTH_POSTPAID_BY_HOUR`, or the `BANDWIDTH_PACKAGE` billing method, the adjustment of the bandwidth cap using this API takes effect in real time. Bandwidth upgrade and downgrade in the permitted range are supported, and the input of parameters `StartTime` and `EndTime` is not supported.
- This API does not support adjusting a bandwidth with the `BANDWIDTH_POSTPAID_BY_MONTH` billing method.
- This API does not support batch adjustment of bandwidths with the `BANDWIDTH_PREPAID` or the `BANDWIDTH_POSTPAID_BY_HOUR` billing method.
- This API does not support batch adjustment of bandwidths with hybrid billing methods. For example, it does not support adjusting bandwidths with the `TRAFFIC_POSTPAID_BY_HOUR` and the `BANDWIDTH_PACKAGE` billing methods at the same time.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ResetInstancesInternetMaxBandwidth</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.
InternetAccessible	Yes	<a href="#">InternetAccessible</a>	The outbound bandwidth configuration of the public network. The bandwidth cap varies with different models. For more information, please see the bandwidth limit reconciliation. Only the parameter <code>InternetMaxBandwidthOut</code> is supported.
StartTime	No	String	The date from which the bandwidth takes effect. Format: <code>YYYY-MM-DD</code> , such as <code>2016-10-30</code> . The start date cannot be earlier than the current date. If the start date is today, the newly set bandwidth takes effect immediately. This parameter is only valid for the prepaid bandwidth. Corresponding error code will be returned by this API if a bandwidth with other billing methods is selected.
EndTime	No	String	The date until which the bandwidth is effective. Format: <code>YYYY-MM-DD</code> , such as <code>2016-10-30</code> . The validity period of the newly set bandwidth includes the end date. The end date cannot be later than the expiry date of the prepaid instance. The expiry date of an instance can be obtained from <code>ExpiredTime</code> in the returned value of API <a href="#">DescribeInstances</a> . This parameter is only valid for the prepaid bandwidth. Corresponding error code will be returned by this API if a bandwidth with other billing methods is selected.

### 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.Range	Invalid parameter value. The parameter value range is invalid.
InvalidPermission	The operation is not supported for the account.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Adjust the public network bandwidth cap of an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ResetInstancesInternetMaxBandwidth
&InstanceIds.0=ins-r8hr2upy
```



```
&InternetAccessible.InternetMaxBandwidthOut=10
&StartTime=2017-03-15
&EndTime=2017-03-16
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
  }
}
```

# InquiryPriceResetInstancesInternetMaxBandwidth

Last updated : 2018-10-12 16:02:42

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`InquiryPriceResetInstancesInternetMaxBandwidth`) is used to inquire the price of the adjusted public network bandwidth cap of an instance.

- The bandwidth cap varies with different models. For more information, please see [Purchase Network Bandwidth](#).
- For a bandwidth with the `BANDWIDTH_PREPAID` billing method, the parameters `StartTime` and `EndTime` are required to specify the validity period of the adjusted bandwidth. Bandwidth downgrade is not supported in this scenario. Since fee deduction is involved, make sure to keep sufficient balance in your account. You can query the account balance via API [DescribeAccountBalance](#).
- For a bandwidth with the `TRAFFIC_POSTPAID_BY_HOUR`, the `BANDWIDTH_POSTPAID_BY_HOUR`, or the `BANDWIDTH_PACKAGE` billing method, the adjustment of the bandwidth cap using this API takes effect in real time. Bandwidth upgrade and downgrade in the permitted range are supported, and the input of parameters `StartTime` and `EndTime` is not supported.
- This API does not support adjusting a bandwidth with the `BANDWIDTH_POSTPAID_BY_MONTH` billing method.
- This API does not support batch adjustment of bandwidths with the `BANDWIDTH_PREPAID` or the `BANDWIDTH_POSTPAID_BY_HOUR` billing method.
- This API does not support batch adjustment of bandwidths with hybrid billing methods. For example, it does not support adjusting bandwidths with the `TRAFFIC_POSTPAID_BY_HOUR` and the `BANDWIDTH_PACKAGE` billing methods at the same time.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>InquiryPriceResetInstancesInternetMaxBandwidth</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.
InternetAccessible	Yes	<a href="#">InternetAccessible</a>	The outbound bandwidth configuration of the public network. The bandwidth cap varies with different models. For more information, please see the bandwidth limit reconciliation. Only the parameter <code>InternetMaxBandwidthOut</code> is supported.
StartTime	No	String	The date from which the bandwidth takes effect. Format: <code>YYYY-MM-DD</code> , such as <code>2016-10-30</code> . The start date cannot be earlier than the current date. If the start date is today, the newly set bandwidth takes effect immediately. This parameter is only valid for the prepaid bandwidth. Corresponding error code will be returned by this API if a bandwidth with other billing methods is selected.
EndTime	No	String	The date until which the bandwidth is effective. Format: <code>YYYY-MM-DD</code> , such as <code>2016-10-30</code> . The validity period of the newly set bandwidth includes the end date. The end date cannot be later than the expiry date of the prepaid instance. The expiry date of an instance can be obtained from <code>ExpiredTime</code> in the returned value of API <a href="#">DescribeInstances</a> . This parameter is only valid for the prepaid bandwidth. Corresponding error code will be returned by this API if a bandwidth with other billing methods is selected.

### 3. Output Parameters

Parameter Name	Type	Description
Price	Price	Indicates the price of the adjusted bandwidth.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.Range	Invalid parameter value. The parameter value range is invalid.
InvalidPermission	The operation is not supported for the account.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Adjust the bandwidth cap of a postpaid instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceResetInstancesInternetMaxBandwidth
&Instancelds.0=ins-fd8spnmq
InternetAccessible.InternetMaxBandwidthOut=20
&DryRun=FALSE
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "Price": {
      "BandwidthPrice": {
        "ChargeUnit": "GB",
        "UnitPrice": 0.8
      }
    },
    "RequestId": "700864b9-85da-4cb9-bc80-d99eaf9fa047"
  }
}
```

# DescribeZoneInstanceConfigInfos

Last updated : 2018-10-12 16:02:45

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeZoneInstanceConfigInfos`) is used to obtain the model information in an availability zone.

A maximum of 40 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeZoneInstanceConfigInfos</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

Parameter Name	Required	Type	Description
Filters.N	No	Array of <a href="#">Filter</a>	<p>Filter conditions.</p> <ul style="list-style-type: none"> <li>zone - String - Required: No - (Filter condition) Filter by availability zone.</li> <li>instance-family - String - Required: No - (Filter condition) Filter by instance model series, such as S1, I1, and M1.</li> <li>instance-type - String - Required: No - (Filter condition) Filter by instance model. Different instance models specify different resource specifications. Specific values can be found in the latest Specifications by calling the API DescribeInstanceTypeConfigs or in the instance type description. If this parameter is not specified, S1.SMALL1 is used by default.</li> <li>instance-charge-type - String - Required: No - (Filter condition) Filter by instance billing method. (PREPAID: prepaid (by year/month)   POSTPAID_BY_HOUR: postpaid (by traffic)   CDHPAID: CDH paid, i.e., only pay for CDH, excluding instances on the CDH.)</li> </ul>

### 3. Output Parameters

Parameter Name	Type	Description
InstanceTypeQuotaSet	Array of <a href="#">InstanceTypeQuotaItem</a>	List of model configuration in an availability zone.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InvalidInstanceType.Malformed	The format of the specified parameter InstanceType is invalid.

Error Code	Description
InvalidRegion.NotFound	The region cannot be found.
InvalidZone.MismatchRegion	The specified <code>zone</code> does not exist.

## 5. Example

### Example 1 Obtain the list of model configuration in an availability zone

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeZoneInstanceConfigInfos
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-2
&Filters.1.Name=instance-charge-type
&Filters.1.Values.0=POSTPAID_BY_HOUR
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "InstanceTypeQuotaSet": [
      {
        "Cpu": 2,
        "Externals": {},
        "InstanceChargeType": "POSTPAID_BY_HOUR",
        "InstanceFamily": "S2",
        "InstanceType": "S2.MEDIUM4",
        "LocalDiskTypeList": [
          {
            "MaxSize": 50,
            "MinSize": 50,
            "PartitionType": "ROOT",
            "Type": "LOCAL_BASIC"
          },
          {
            "MaxSize": 500,
            "MinSize": 0,
            "PartitionType": "DATA",
            "Type": "LOCAL_BASIC"
          }
        ],
        "Memory": 4,
        "NetworkCard": 0,
```



```
"Price": {  
  "ChargeUnit": "HOURL",  
  "UnitPrice": 0.64  
},  
"Status": "SELL",  
"TypeName": "Standard S2",  
"Zone": "ap-guangzhou-2"  
}  
],  
"RequestId": "c28559ca-d3cf-40f0-9664-2ab303484efa"  
}  
}
```

# CreateDisasterRecoverGroup

Last updated : 2018-10-12 16:02:54

## 1. API Description

Domain name for API request: [cvm.tencentcloudapi.com](https://cvm.tencentcloudapi.com)

This API (CreateDisasterRecoverGroup) is used to create [Spread Placement Groups](#). Once a spread placement group is created, you can specify it when [creating an instance](#).

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: [cvm.ap-shanghai-fsi.tencentcloudapi.com](https://cvm.ap-shanghai-fsi.tencentcloudapi.com)

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: CreateDisasterRecoverGroup
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Name	Yes	String	Name of a spread placement group with a length of 1-60 characters.
Type	Yes	String	Type of a spread placement group. Value range: <ul style="list-style-type: none"><li>• HOST: Physical machine</li><li>• SW: Exchange</li><li>• RACK: Rack</li></ul>

## 3. Output Parameters

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

Parameter Name	Type	Description
DisasterRecoverGroupId	String	List of spread placement group IDs.
Type	String	Type of a spread placement group. Value range: <ul style="list-style-type: none"><li>• HOST: Physical machine</li><li>• SW: Exchange</li><li>• RACK: Rack</li></ul>
Name	String	Name of a spread placement group with a length of 1-60 characters.
CvmQuotaTotal	Integer	Number of CVMs that a placement group can have.
CurrentNum	Integer	Number of CVMs that a placement group contains.
CreateTime	Timestamp	Creation time of a placement group
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InvalidParameterValue.Range	Invalid parameter value. The parameter value range is invalid.
InvalidParameterValue.TooLong	Invalid parameter value. The parameter value is too long.

## 5. Example

### Example 1 Create a spread placement group

#### Input Example

```
https://cvm.tencentcloudapi.com/?Action=CreateDisasterRecoverGroup
&Name=Physical-machine-type disaster recovery group
&Type=HOST
&<Common request parameters>
```

#### Output Example

```
{
  "Response": {
    "CreateTime": "2018-06-08T07:26:38Z",
    "CurrentNum": 0,
    "CvmQuotaTotal": 50,
    "DisasterRecoverGroupId": "ps-qajfd25h",
    "Name": "Physical Machine Disaster Recovery Group",
    "RequestId": "21387009-9b9c-4b57-8fa2-8228f702ff6c",
    "Type": "HOST"
  }
}
```

# DeleteDisasterRecoverGroups

Last updated : 2018-10-12 16:02:53

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DeleteDisasterRecoverGroups`) is used to delete [spread placement groups](#). Only empty placement groups can be deleted. A place group with CVMs in it cannot be deleted until all the CVMs are terminated, otherwise the deletion may fail.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DeleteDisasterRecoverGroups</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
DisasterRecoverGroupIds.N	Yes	Array of String	List of spread placement group IDs which can be obtained via API <a href="#">DescribeDisasterRecoverGroups</a> .

## 3. Output Parameters

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

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

## 4. Error Codes

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.PlacementSetNotEmpty	The specified placement group is not empty.
ResourceNotFound.InvalidPlacementSet	The specified placement group does not exist.

## 5. Example

### Example 1 Deletes a spread placement group

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DeleteDisasterRecoverGroups
&DisasterRecoverGroupIds.0=ps-58l1hu01
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "8e50cdb5-56dc-408b-89b0-31818958d424"
  }
}
```

# DescribeDisasterRecoverGroupQuota

Last updated : 2018-10-12 16:02:52

## 1. API Description

Domain name for API request: cvm.tencentcloudapi.com

This API (DescribeDisasterRecoverGroupQuota) is used to query the quota of [spread placement groups](#).

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

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: cvm.ap-shanghai-fsi.tencentcloudapi.com

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDisasterRecoverGroupQuota
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

## 3. Output Parameters

Parameter Name	Type	Description
GroupQuota	Integer	The maximum number of placement groups that can be created.
CurrentNum	Integer	The number of placement groups that have been created by the current user.
CvmInHostGroupQuota	Integer	Quota of instances in a physical-machine-type disaster recovery group.
CvmInSwGroupQuota	Integer	Quota of instances in an exchange-type disaster recovery group.

Parameter Name	Type	Description
CvmInRackGroupQuota	Integer	Quota of instances in a rack-type disaster recovery group.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

## 5. Example

### Example 1 Query the quota of placement groups of an user

#### Input example

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

#### Output example

```
{
  "Response": {
    "CurrentNum": 25,
    "CvmInHostGroupQuota": 50,
    "CvmInRackGroupQuota": 30,
    "CvmInSwGroupQuota": 20,
    "GroupQuota": 10,
    "RequestId": "a13da94a-1cbc-42ca-ac6c-e14ef0c76a7c"
  }
}
```



# DescribeDisasterRecoverGroups

Last updated : 2018-10-12 16:02:52

## 1. API Description

Domain name for API request: [cvm.tencentcloudapi.com](https://cvm.tencentcloudapi.com)

This API (DescribeDisasterRecoverGroups) is used to query the information on a [spread placement group](#).

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: [cvm.ap-shanghai-fsi.tencentcloudapi.com](https://cvm.ap-shanghai-fsi.tencentcloudapi.com)

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeDisasterRecoverGroups
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
DisasterRecoverGroupIds.N	No	Array of String	List of spread placement group IDs.
Name	No	String	Spread placement group name. Fuzzy match is supported.
Offset	No	Integer	Offset. Default is 0. For more information about Offset , please see the relevant section in <a href="#">API Introduction</a> .
Limit	No	Integer	Number of values to be returned. Default is 20. Maximum is 100. For more information about Limit , please see the relevant section in <a href="#">API Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
DisasterRecoverGroupSet	Array of <a href="#">DisasterRecoverGroup</a>	List of information on a spread placement group
TotalCount	Integer	Total number of placement groups of an user.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

### 5. Example

#### Example 1 Query the information of a spread placement group

##### Input example

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

##### Output example

```
{
  "Response": {
    "DisasterRecoverGroupSet": [
      {
        "CreateTime": "2018-04-19T02:47:12Z",
        "CurrentNum": 0,
        "CvmQuotaTotal": 30,
        "DisasterRecoverGroupId": "ps-21q9ibvr",
        "InstanceIds": [],
        "Name": "alexant_test",
        "Type": "RACK"
      }
    ],
    "RequestId": "c68ce193-be41-4d13-9a9b-2dc031db6477",
    "TotalCount": 1
  }
}
```

```
}  
}
```

# ModifyDisasterRecoverGroupAttribute

Last updated : 2018-10-12 16:02:39

## 1. API Description

Domain name for API request: [cvm.tencentcloudapi.com](https://cvm.tencentcloudapi.com)

This API (ModifyDisasterRecoverGroupAttribute) is used to modify the attributes of a [spread placement group](#).

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: [cvm.ap-shanghai-fsi.tencentcloudapi.com](https://cvm.ap-shanghai-fsi.tencentcloudapi.com)

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ModifyDisasterRecoverGroupAttribute
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
DisasterRecoverGroupId	Yes	String	Spread placement group ID, which can be obtained via API <a href="#">DescribeDisasterRecoverGroups</a> .
Name	Yes	String	Name of a spread placement group with a length of 1-60 characters. Letters are supported.

## 3. Output Parameters

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

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

## 4. Error Codes

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.InvalidPlacementSet	The specified placement group does not exist.

## 5. Example

### Example 1 Modify the attributes of a spread placement group

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyDisasterRecoverGroupAttribute
&DisasterRecoverGroupId=ps-58l1hu01
&Name=Physical-machine-type disaster recovery group 1
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6e185c04-116f-47b7-b21c-e13580c5d0f2"
  }
}
```

# DescribeInstanceVncUrl

Last updated : 2018-10-12 16:02:48

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeInstanceVncUrl`) is used to query the URL to the instance management client.

- This feature is unavailable to the instances with a status of `STOPPED`.
- The validity period of the management client URL is 15 sec. If the URL is not accessed within 15 sec after the API is called, it will become invalid automatically. You have to query a URL again.
- Once the client URL is accessed, it will become invalid automatically. You have to query a URL again.
- If the access is disconnected, reconnect attempts within one minute cannot exceed 30 times.
- Add the parameter `InstanceVncUrl=xxxx` at the end of the URL [https://img.qcloud.com/qcloud/app/active\\_vnc/index.html?](https://img.qcloud.com/qcloud/app/active_vnc/index.html?InstanceVncUrl) after obtaining `InstanceVncUrl`.
  - Parameter `InstanceVncUrl` : Returned value of `InstanceVncUrl` after a successful call of the API.

The final URLs are in the following format:

```
https://img.qcloud.com/qcloud/app/active_vnc/index.html?InstanceVncUrl=wss://bjvnc.qcloud.com:26789/vnc?s=aHpjWnRVMFNhYmxKdDM5MjRHNIVTSVQwajNUSW0wb2tBbmFtREFCTmFrcy8vUUNPMG0wSHZNOU  
UxRm5PMmUzWmFDcWlOdDJIbUJxSTZDL0RXcHZxYnZZMmRkWWZWcEZia2lyb09XMzdKNmM9
```

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeInstanceVncUrl</code>

Parameter Name	Required	Type	Description
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	ID of an instance you are working with. You can obtain the parameter value from the InstanceId field value in the returned result of API <a href="#">DescribeInstances</a> .

### 3. Output Parameters

Parameter Name	Type	Description
InstanceVncUrl	String	URL to the instance management client.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InvalidInstanceId.Malformed	Invalid instance ID. Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidInstanceState	The operation cannot be performed to the instance with the current status.

### 5. Example

#### Example 1 Query the URL to the instance management client

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstanceVncUrl
&Region=ap-beijing
&InstanceId=ins-r9hr2upy
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "InstanceVncUrl": "wss://bjvnc.qcloud.com:26789/vnc?s=aHpjWnRVMFNhYmxKdDM5MjRHNIVTSVQwajNUS
W0wb2tBbmFtREFCTmFrcy8vUUNPMG0wSHZNOUUXRm5PMmUzWmFDcWlOdDJIbUJxSTZDL0RXcHZxYnZZ
MmRkWWZWcEZia2lyb09XMzdKNmM9",
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```



# InquiryPriceModifyInstancesChargeType

Last updated : 2018-10-12 16:02:44

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`InquiryPriceModifyInstancesChargeType`) is used to inquire the price for the switched billing method of an instance.

- This API only supports inquiring the price for an instance of which the billing method is switched from `POSTPAID_BY_HOUR` to `PREPAID`.
- This operation is not supported for instances that are not charged for shutdown period, that belong to `BC1` and `BS1` model families, and that will be terminated at a certain time.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>InquiryPriceModifyInstancesChargeType</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the InstanceId field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.
InstanceChargeType	Yes	String	<a href="#">Billing type</a> of the instance. <ul style="list-style-type: none"> <li>PREPAID: Prepaid</li> </ul>
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the renewal length, whether to set automatic renewal and other attributes for the instance purchased on a prepaid basis.

### 3. Output Parameters

Parameter Name	Type	Description
Price	<a href="#">Price</a>	Indicates the price for the switched billing method of an instance with specified configuration.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.

Error Code	Description
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
InvalidPermission	The operation is not supported for the account.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Inquire the price for the switched billing method of an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=InquiryPriceModifyInstancesChargeType
&InstanceIds.0=ins-r8hr2upy
&InstanceChargeType=PREPAID
&InstanceChargePrepaid.Period=1
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "Price": {
      "InstancePrice": {
        "DiscountPrice": 720,
        "OriginalPrice": 720
      }
    },
    "RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
  }
}
```

# ModifyInstancesChargeType

Last updated : 2018-10-12 16:02:37

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyInstancesChargeType`) is used to switch the billing method of an instance.

- This API only supports switching the billing method from `POSTPAID_BY_HOUR` to `PREPAID`.
- This operation is not supported for instances that are not charged for shutdown period, that belong to `BC1` and `BS1` model families, and that will be terminated at a certain time.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>ModifyInstancesChargeType</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>InstanceIds.N</code>	Yes	Array of String	ID(s) of one or more instances you are working with. You can obtain the parameter value from the <code>InstanceId</code> field value in the returned result of API <a href="#">DescribeInstances</a> . A maximum of 100 instances are allowed in a batch for each request.

Parameter Name	Required	Type	Description
InstanceChargeType	Yes	String	<a href="#">Billing type</a> of the instance. <ul style="list-style-type: none"> <li>PREPAID: Prepaid.</li> </ul>
InstanceChargePrepaid	No	<a href="#">InstanceChargePrepaid</a>	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the usage period, whether to set automatic renewal and other attributes of the instance purchased on a prepaid basis. This parameter is required if the billing method for the specified instance is prepaid.

### 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidAccount.InsufficientBalance	Insufficient account balance.
InvalidAccount.UnpaidOrder	There is an order to be paid in the account.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.

Error Code	Description
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
InvalidPermission	The operation is not supported for the account.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Switch the billing method of an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyInstancesChargeType
&InstanceId=ins-r8hr2upy
&InstanceChargeType=PREPAID
&InstanceChargePrepaid.Period=1
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "d39d6c09-44e9-4e80-8661-77b5ff3cbc15"
  }
}
```

# Image-related APIs

## CreateImage

Last updated : 2018-10-12 16:03:08

### 1. API Description

Domain name for API request: cvm.tencentcloudapi.com

This API (CreateImage) is used to create a new image from the system disk of an instance. The created image can be used to create instances.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: cvm.ap-shanghai-fsi.tencentcloudapi.com

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: CreateImage
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
InstanceId	Yes	String	The ID of the instance used to create an image
ImageName	Yes	String	Image name
ImageDescription	No	String	Image description
ForcePoweroff	No	String	Indicates whether to perform a forced shutdown to create an image when soft shutdown fails
Sysprep	No	String	Indicates whether Sysprep is enabled when creating a Windows image
Reboot	No	String	Indicates whether shutdown of a running instance is allowed to create an image

### 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. Error Codes

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

Error Code	Description
ImageQuotaLimitExceeded	Image quota exceeds the limit.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.NotFound	No instance found.
InvalidParameter.ValueTooLarge	The length of parameter exceeds the limit.
MutexOperation.TaskRunning	The same task is running.

### 5. Example

#### Example 1 Create an image

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=CreateImage
&InstanceId=ins-6pb6lrmy
&<Common request parameters>
```

##### Output example

```
{
  "Response": {
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
  }
}
```





# Deletelimages

Last updated : 2018-10-12 16:03:07

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (Deletelimages) is used to delete one or more images.

- The images with a `status` of `Creating` or `In Use` cannot be deleted. The image status can be obtained via [DescribeImages](#).
- A maximum of 10 custom images are allowed to be created for each region. Deletion of images can free the quota on account.
- A shared image cannot be deleted.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>Deletelimages</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
ImageIds.N	Yes	Array of String	The list of IDs of the instances to be deleted

## 3. Output Parameters

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

## 4. Error Codes

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

Error Code	Description
InvalidImageId.InShared	The image is being shared.
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.Malformed	Incorrect format of image ID.
InvalidImageId.NotFound	The image cannot be found.

## 5. Example

### Example 1 Delete an image

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DeleteImage
&ImageIds.0=img-34vaef8fe
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
  }
}
```

# ModifyImageAttribute

Last updated : 2018-10-12 16:03:02

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyImageAttribute`) is used to modify the image attributes.

- Modifying attributes is not allowed for a shared image.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ModifyImageAttribute</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
ImageId	Yes	String	Image ID, such as <code>img-gvbnzy6f</code> . Image ID can be obtained by either of the following ways: <ul style="list-style-type: none"><li>• From the <code>ImageId</code> field returned by the API <a href="#">DescribeImages</a>.</li><li>• Via the <a href="#">Image console</a>.</li></ul>
ImageName	No	String	Set a new image name, which must meet the following requirements: <ul style="list-style-type: none"><li>• It cannot exceed 20 characters.</li><li>• It must be unique.</li></ul>
ImageDescription	No	String	Set a new image description, which must meet the following requirements: <ul style="list-style-type: none"><li>• It cannot exceed 60 characters.</li></ul>

### 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. Error Codes

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

Error Code	Description
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.Malformed	Incorrect format of image ID.
InvalidImageId.NotFound	The image cannot be found.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidParameter.ValueTooLarge	The length of parameter exceeds the limit.

### 5. Example

#### Example 1 Modify the image name

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyImageAttribute
&ImageId=img-6pb6lrmy
&ImageName=sample
&<Common request parameters>
```

##### Output example

```
{
  "Response": {
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
  }
}
```

# DescribeImages

Last updated : 2018-10-12 16:03:05

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (DescribeImages) is used to view the image list.

- You can query the details of the specified images by specifying image IDs, or set filters to query the details of the images that satisfy the filter conditions.
- You can specify Offset and Limit to select a part of the results. The information of the first 20 images satisfying the condition is returned by default.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeImages
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
ImageIds.N	No	Array of String	The list of image IDs, such as <code>img-gvbnzy6f</code> . For the format of array parameters, please see <a href="#">API Introduction</a> . Image ID can be obtained by either of the following ways: <ul style="list-style-type: none"><li>• From the <code>ImageId</code> field returned by the API <a href="#">DescribeImages</a>.</li><li>• Via the <a href="#">Image console</a>.</li></ul>

Parameter Name	Required	Type	Description
Filters.N	No	Array of <a href="#">Filter</a>	Filter condition. The maximum number of <code>Filters</code> for each request is 0 and that of <code>Filters.Values</code> is 5. This parameter does not support specifying both <code>ImageIds</code> and <code>Filters</code> . Specific filter conditions are described as follows: <ul style="list-style-type: none"> <li><code>image-id</code> - String - Required: No - (Filter condition) Filter by image ID.</li> <li><code>image-type</code> - String - Required: No - (Filter condition) Filter by image type. Value range: for more information, please see <a href="#">Image Type</a>.</li> <li><code>image-state</code> - String - Required: No - (Filter condition) Filter by image status. Value range: for more information, please see <a href="#">Image Status</a>.</li> </ul>
Offset	No	Integer	Offset. Default is 0. For more information on Offset, please see <a href="#">API Introduction</a> .
Limit	No	Integer	Limit on the number of results. Default is 20, and maximum is 100. For more information on Limit, please see <a href="#">API Introduction</a> .
InstanceType	No	String	Instance type. For example, <code>S1.SMALL1</code>

### 3. Output Parameters

Parameter Name	Type	Description
ImageSet	Array of <a href="#">Image</a>	An array of detailed information of an image, including the main statuses and attributes of the image.
TotalCount	Integer	Number of images satisfying the filter conditions.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
------------	-------------

Error Code	Description
InvalidFilter	Invalid filter.
InvalidParameter.InvalidParameterCoexistImageldsFilters	Imagelds and Filters cannot be specified at the same time.
InvalidParameterValue.InvalidParameterValueLimit	Incorrect parameter value.

## 5. Example

### Example 1 Query images by image IDs

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeImages
&Filters.0.Name=image-id
&Filters.0.Values.0=img-pmqg1cw7
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "ImageSet": [
      {
        "Creator": "PUBLIC",
        "ImageCreateTime": "1970-01-01T00:00:00+00:00",
        "ImageDescription": "CentOS 6.6 32-bit",
        "ImageId": "img-pmqg1cw7",
        "ImageName": "CentOS 6.6 32-bit",
        "ImageOsName": "centos6.6x86_32",
        "ImageStatus": "NORMAL",
        "ImageType": "PUBLIC_IMAGE"
      }
    ],
    "RequestId": "5920380e-277a-420a-a221-0caac3eb7159",
    "TotalCount": 1
  }
}
```

### Example 2 Query images by image types

#### Input example



```
https://cvm.tencentcloudapi.com/?Action=DescribeImages
&Filters.0.Name=image-type
&Filters.0.Values.0=PRIVATE_IMAGE
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "ImageSet": [
      {
        "Creator": "PUBLIC",
        "ImageCreateTime": "1970-01-01T00:00:00+00:00",
        "ImageDescription": "CentOS 6.6 32-bit",
        "ImageId": "img-pmqg1cw7",
        "ImageName": "CentOS 6.6 32-bit",
        "ImageOsName": "centos6.6x86_32",
        "ImageStatus": "NORMAL",
        "ImageType": "PUBLIC_IMAGE"
      }
    ],
    "RequestId": "5920380e-277a-420a-a221-0caac3eb7159",
    "TotalCount": 1
  }
}
```

# ImportImage

Last updated : 2018-10-12 16:03:03

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (ImportImage) is used to import images that can be used to create instances.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: ImportImage
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Architecture	Yes	String	The operating system architecture ( <code>x86_64</code> or <code>i386</code> ) of the imported image
OsType	Yes	String	The operating system type of the imported image, which can be obtained via <code>DescribeImportImageOs</code> .
OsVersion	Yes	String	The operating system version of the imported image, which can be obtained via <code>DescribeImportImageOs</code> .
ImageUrl	Yes	String	The address of COS where the imported image is stored
ImageName	Yes	String	Image name
ImageDescription	No	String	Image description
DryRun	No	Boolean	Check parameters only, and do not execute tasks

Parameter Name	Required	Type	Description
Force	No	Boolean	Indicates whether to perform the forced image import. For more information, please see <a href="#">Forced Image Import</a>

### 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. Error Codes

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

Error Code	Description
ImageQuotaLimitExceeded	Image quota exceeds the limit.
InvalidImageName.Duplicate	The specified image name already exists.
InvalidImageOsType.Unsupported	The operating system type is not supported.
InvalidImageOsVersion.Unsupported	The operating system version is not supported.
InvalidParameter.InvalidParameterUrlError	Incorrect URL.
RegionAbilityLimit.UnsupportedToImportImage	Image import is not supported for this region.

### 5. Example

#### Example 1 Import an image

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=ImportImage
&OsType=CentOS
&OsVersion=6
&ImageName=sample
&ImageDescription=sampleimage
```

```
&ImageUrl=http://111-1251233127.cosd.myqcloud.com/Windows Server 2008 R2 x64a.vmdk  
&Architecture=x86_64  
&<Common request parameters>
```

### Output example

```
{  
  "Response": {  
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"  
  }  
}
```

# DescribeImportImageOs

Last updated : 2018-10-12 16:03:04

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeImportImageOs`) is used to view the operating system information of an imported image.

A maximum of 288 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeImportImageOs</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

## 3. Output Parameters

Parameter Name	Type	Description
<code>ImportImageOsListSupported</code>	<a href="#">ImageOsList</a>	Supported operating system types of imported images.
<code>ImportImageOsVersionSet</code>	Array of <a href="#">OsVersion</a>	Supported operating system versions of imported images.
<code>RequestId</code>	String	The unique request ID, which is returned for each request. <code>RequestId</code> is required for locating a problem.

## 4. Error Codes

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

## 5. Example

### Example 1 Query the configuration information of the operating system supported by an imported image

#### Input example

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

#### Output example

```
{
  "Response": {
    "ImportImageOsListSupported": {
      "Linux": [
        "CentOS",
        "Ubuntu",
        "Debian",
        "OpenSUSE",
        "SUSE",
        "CoreOS",
        "FreeBSD",
        "Other Linux"
      ],
      "Windows": [
        "Windows Server 2008",
        "Windows Server 2012",
        "Windows Server 2016"
      ]
    },
    "ImportImageOsVersionSet": [
      {
        "Architecture": [
          "x86_64",
          "i386"
        ],
        "OsName": "Windows Server 2008",
        "OsVersions": [
          "_"
        ]
      }
    ]
  }
}
```

```
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "Windows Server 2012",
  "OsVersions": [
    "-"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "Windows Server 2016",
  "OsVersions": [
    "-"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "CentOS",
  "OsVersions": [
    "5",
    "6",
    "7"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "CoreOS",
  "OsVersions": [
    "7"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
```

```
"OsName": "Debian",
"OsVersions": [
  "6",
  "7",
  "8",
  "9"
]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "FreeBSD",
  "OsVersions": [
    "10"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "Redhat",
  "OsVersions": [
    "5",
    "6",
    "7"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "OpenSUSE",
  "OsVersions": [
    "11",
    "12"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "SUSE",
  "OsVersions": [
```



```
"10",
"11",
"12",
"13"
],
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "Ubuntu",
  "OsVersions": [
    "10",
    "12",
    "14",
    "16"
  ]
},
{
  "Architecture": [
    "x86_64",
    "i386"
  ],
  "OsName": "Other Linux",
  "OsVersions": [
    "_"
  ]
}
],
  "RequestId": "32064a8f-8d3f-4670-8d4f-60123ca97042"
}
}
```

# DescribeImageSharePermission

Last updated : 2018-10-12 16:03:06

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeImageSharePermission`) is used to query the information on image sharing.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeImageSharePermission</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
ImageId	Yes	String	The ID of the image to be shared

## 3. Output Parameters

Parameter Name	Type	Description
SharePermissionSet	Array of <a href="#">SharePermission</a>	Information on image sharing
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

Error Code	Description
InvalidAccountId.NotFound	Invalid account ID.
InvalidAccountIs.YourSelf	You cannot share images to yourself.
OverQuota	The number of shared images exceeds the quota limit.

## 5. Example

### Example 1 View the sharing information of a specified image

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeImageSharePermission
&ImageId=img-6pb6lrmy
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "MaxSharePermission": 50,
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be",
    "SharePermissionSet": [
      {
        "AccountId": "101104350000",
        "CreatedTime": "2018-06-10T11:02:50Z"
      },
      {
        "AccountId": "101104350001",
        "CreatedTime": "2018-06-13T15:03:25Z"
      }
    ]
  }
}
```

# ModifyImageSharePermission

Last updated : 2018-10-12 16:03:01

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyImageSharePermission`) is used to modify the image sharing information.

- The accounts to which an image is shared can create instances from this image.
- Each custom image can be shared to a maximum of 50 accounts.
- A shared image can only be used to create instances and its name and description cannot be changed.
- An image can only be shared to the accounts in the same region as the source account.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ModifyImageSharePermission</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
ImageId	Yes	String	Image ID, such as <code>img-gvbnzy6f</code> . Image ID can be obtained by either of the following ways: <ul style="list-style-type: none"><li>• From the <code>ImageId</code> field returned by the API <a href="#">DescribeImages</a>.</li><li>• Via the <a href="#">Image console</a>.</li></ul> The specified image ID must identify an image with a status of <code>NORMAL</code> . For more information on image statuses, please see <a href="#">Image Data Sheet</a> .

Parameter Name	Required	Type	Description
AccountIds.N	Yes	Array of String	List of account IDs receiving shared image. For the format of array parameters, please see <a href="#">API Introduction</a> . The account ID is different from QQ number. To query the account ID, please see the Account ID column in <a href="#">Account Information</a> .
Permission	Yes	String	Operations including <code>SHARE</code> and <code>CANCEL</code> . <code>SHARE</code> means sharing, and <code>CANCEL</code> means canceling sharing.

### 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. Error Codes

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

Error Code	Description
InvalidAccountId.NotFound	Invalid account ID.
InvalidAccountIs.YourSelf	You cannot share images to yourself.
OverQuota	The number of shared images exceeds the quota limit.

### 5. Example

#### Example 1 Share an image

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyImageSharePermission
&ImageId=img-6pb6lrmv
&AccountIds.0=1038493875
```

```
&Permission=SHARE  
&<Common request parameters>
```

**Output example**

```
{  
  "Response": {  
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"  
  }  
}
```

# Synclmages

Last updated : 2018-10-12 16:03:01

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (Synclmages) is used to sync a custom image to other regions.

- Each call to this API can only sync a single image.
- This API supports syncing to multiple regions.
- For a single account, a maximum of 10 custom images are allowed for each region.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: Synclmages
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
ImageIds.N	Yes	Array of String	Image ID list. Image ID can be obtained by either of the following ways: <ul style="list-style-type: none"><li>• From the <code>ImageId</code> field returned by the API <a href="#">DescribeImages</a>.</li><li>• Via the <a href="#">Image console</a>.</li></ul> Image ID must meet the following requirements: <ul style="list-style-type: none"><li>• It must identify an image with a status of <code>NORMAL</code>.</li><li>• It must identify an image smaller than 50 GB.</li></ul> For more information on image statuses, please see <a href="#">Image Data Sheet</a> .

Parameter Name	Required	Type	Description
DestinationRegions.N	Yes	Array of String	List of destination regions for synchronization. Destination region must meet the following requirements: <ul style="list-style-type: none"><li>• It cannot be the source region.</li><li>• It must be valid.</li><li>• Synchronization is not supported for some regions.</li></ul> For more information on region parameters, please see <a href="#">Region</a> .

### 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. Error Codes

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

Error Code	Description
InvalidImageId.IncorrectState	Invalid image status.
InvalidImageId.NotFound	The image cannot be found.
InvalidImageId.TooLarge	Image size exceeds the limit.
InvalidRegion.NotFound	The region cannot be found.
InvalidRegion.Unavailable	Synchronization of images is not supported for this region.

### 5. Example

#### Example 1 Sync an image

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=SyncImages
&ImageIds.0=img-o3ycss2p
```



```
&DestinationRegions.0=ap-guangzhou  
&<Common request parameters>
```

### Output example

```
{  
  "Response": {  
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"  
  }  
}
```

# DescribeImageQuota

Last updated : 2018-10-12 16:03:06

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeImageQuota`) is used to query the image quota under the user account.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>DescribeImageQuota</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

## 3. Output Parameters

Parameter Name	Type	Description
ImageNumQuota	Integer	The image quota under an account
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

## 4. Error Codes

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

## 5. Example

### Example 1 Query image quota

#### Input example

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

#### Output example

```
{
  "Response": {
    "ImageNumQuota": 20,
    "RequestId": "71e69b56-32be-4412-ab45-49eded6a87be"
  }
}
```

# Key-related APIs

## CreateKeyPair

Last updated : 2018-10-12 16:02:59

### 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`CreateKeyPair`) is used to create an `OpenSSH RSA` key pair to be used for login to `Linux` instances.

- Developers only need to specify the key name, and the system can automatically create a key pair and return the ID of the generated key pair as well as its public and private keys.
- The name of key pair must be unique.
- The private key can be saved to a file as an authentication method for `SSH`.
- Tencent Cloud does not retain user's private key. Please keep it well.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>CreateKeyPair</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
KeyName	Yes	String	Name of key pair, which can consist of numbers, letters, and underscores, with a length of not more than 25 characters.

Parameter Name	Required	Type	Description
ProjectId	Yes	Integer	The ID of the project to which the created key pair belongs. You can obtain the project ID by either of the following ways: <ul style="list-style-type: none"> <li>Query the project ID via the project list.</li> <li>Obtain the project ID from the <code>projectId</code> field value in the returned result of API DescribeProject.</li> </ul>

### 3. Output Parameters

Parameter Name	Type	Description
KeyPair	<a href="#">KeyPair</a>	The information of key pair.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidKeyPair.LimitExceeded	Number of key pairs exceeds the limit.
InvalidKeyPairName.Duplicate	Duplicate key pair name.
InvalidKeyPairNameEmpty	Key name is empty.
InvalidKeyPairNameIncludelllegalChar	Key name contains invalid characters. Key name can only contain letters, numbers and underscores.
InvalidKeyPairNameTooLong	Key name length exceeded 25 characters
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidProjectId.NotFound	Invalid project ID. The specified project ID does not exist.

Error Code	Description
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Create a key pair

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=CreateKeyPair
&KeyName=Tencent
&ProjectId=0
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "KeyPair": {
      "KeyId": "skey-mv9zyjj",
      "KeyName": "Tencent",
      "PrivateKey": "-----BEGIN RSA PRIVATE KEY-----\nMIICXgIBAAKBgQDP0Yw2T4itUKOJQIK69c1Asy1UO88cxEb
ujR5Jbr0e/Ey1v4ZK\nAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl73X/klOO8oqKv+J/X\nUA7K
HH1Y6wcn1RTRTMdDHbGhW1q/UpfeylINTbf+wEIWhEfaL5FKQm4hqCwlDAQAB\nAoGBAJEvSu5SaCD02hs0F
2C4Aln2E2/qjMoDEa7spcEVfUhdanX8ZLvk5pUvnikm\nnwfSb7a71QUlcFu66zKxBK4kVcirBRCR8nTAQbQ6AhX
QYP+y6ihZ9Z/g6BBEEqCp\nnuGPMknhdxdJ8Al2huEZKJFUQhKM8Xdp7dqn6yFDm0L2sTK6RAkEA9IbhP4/2C
VSC\n6d8j5nj3ejPx25R3wc4G+st1tZn1O/TRqUknbVEvsxZC63bRjHiw086QIW61L8f\nnqQBLZ58DMwJBANmRv
3aHVxv5sMIV0F3hD5ZgWEDlIjxD7oiBzU1rqvF6OpTQc1cF\nnrmwxAXDtYYJ75B8qQEL1ph/zIE5YW0hlfckCQQCy
VTwpUyCopU3kqxBaDXKtMU\nnxS6h1VQZzBDIpmPJOj8+Ku/qNe+HuJCNkVY6EDtF/bv340GTTr+0LVbQ95
MpAkEA\nxcvwUdTXB9LnuXKuHTsoDaFHepW4MivcJvRC7njM7z4dFf+wbFP4/mUbF0xoUtVJ\nnXI/uDjH/tpo1
K6S+UElCqQJAF1QywcQdZ/qOJn0PwxiOhwniikSnZuZPNSw8T+kg\n/oxijESOLAJBnt3S/g+D530Enjivfc9mEB
7mh0VmwWvPg==\n-----END RSA PRIVATE KEY-----\n",
      "ProjectId": 0,
      "PublicKey": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDP0Yw2T4itUKOJQIK69c1Asy1UO88cxEbuJR5
Jbr0e/Ey1v4ZKAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl73X/klOO8oqKv+J/XUA7KHH1Y6wcn1RTRTMdDHbGhW1q/UpfeylINTbf+wEIWhEfaL5FKQm4hqCw== skey_112168"
    },
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# DeleteKeyPairs

Last updated : 2018-10-12 16:02:58

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DeleteKeyPairs`) is used to delete the key pairs hosted in Tencent Cloud.

- You can delete multiple key pairs at a time.
- The key pair referenced by an instance or image cannot be deleted. You need to verify whether all the key pairs have been deleted successfully.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>DeleteKeyPairs</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>KeyIds.N</code>	Yes	Array of String	ID(s) of one or more key pair IDs you are working with. A maximum of 100 key pairs are allowed in a batch for each request. You can obtain the available key ID by either of the following ways: <ul style="list-style-type: none"><li>• Query the key ID by logging in to the <a href="#">Console</a>.</li><li>• Call the API <a href="#">DescribeKeyPairs</a> to obtain the key pair ID from the <code>KeyId</code> field value in the returned result.</li></ul>

## 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. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidKeyPair.LimitExceeded	Number of key pairs exceeds the limit.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID is in an incorrect format. For example, <code>skey-1122</code> has an invalid ID length.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Delete a key pair

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DeleteKeyPairs
&KeyIds.0=skey-mv9zyzjj
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
```



```
}  
}
```

# ModifyKeyPairAttribute

Last updated : 2018-10-12 16:02:55

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ModifyKeyPairAttribute`) is used to modify the attributes of key pairs.

- This API modifies the name and description of the key pair identified by the key pair ID.
- The name of key pair must be unique.
- Key pair ID is the unique identifier of key pair and cannot be modified.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ModifyKeyPairAttribute</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
KeyId	Yes	String	Key pair ID, such as <code>skey-xxxxxxx</code> .  You can obtain the available key ID by either of the following ways: <ul style="list-style-type: none"><li>• Query the key ID by logging in to the <a href="#">Console</a>.</li><li>• Call the API <a href="#">DescribeKeyPairs</a> to obtain the key pair ID from the <code>KeyId</code> field value in the returned result.</li></ul>
KeyName	No	String	Modified name of key pair, which can consist of numbers, letters, and underscores, with a length of not more than 25 characters.

Parameter Name	Required	Type	Description
Description	No	String	Modified description of key pair. It is limited to 60 characters.

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidKeyId.Malformed	Invalid key pair ID. The specified key pair ID is in an incorrect format. For example, <code>skey-1122</code> has an invalid ID length.
InvalidKeyId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidKeyName.Duplicate	Duplicate key pair name.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

### 5. Example

#### Example 1 Modify the key pair name

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyKeyPairAttribute
&KeyId=skey-mv9zyzjj
&KeyName=Tencent
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

### Example 2 Modify the key pair description

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyKeyPairAttribute
&KeyId=skey-mv9zyzjj
&Description=Tencent
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "RequestId": "aea2227b-fbb7-4cc7-bf29-d49b2b6db97c"
  }
}
```

# AssociateInstancesKeyPairs

Last updated : 2018-10-12 16:03:00

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`AssociateInstancesKeyPairs`) is used to bind a key pair to an instance.

- When the public key of a key pair is written to the `SSH` configuration of the instance, you can log in to the instance through the private key of the key pair.
- If the instance has been bound with a key, the old key will become invalid.
- If the instance was originally logged in through a password, the password becomes unavailable after the key is bound to the instance.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request. If there is any instance that is unsupported for the operation in the batch of instances, an error code is returned.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>AssociateInstancesKeyPairs</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.

Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	<p>ID(s) of one or more instances you are working with. A maximum of 100 instances are allowed in a batch for each request. You can obtain the available instance ID by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the instance ID by logging in to the <a href="#">Console</a>.</li> <li>Call the API <a href="#">DescribeInstances</a> to obtain the instance ID from the <code>InstanceId</code> field value in the returned result.</li> </ul>
KeyIds.N	Yes	Array of String	<p>ID(s) of one or more key pairs you are working with. A maximum of 100 key pairs are allowed in a batch for each request. A key pair ID takes a format such as <code>skey-3glfot13</code>. You can obtain the available key ID by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the key ID by logging in to the <a href="#">Console</a>.</li> <li>Call the API <a href="#">DescribeKeyPairs</a> to obtain the key pair ID from the <code>KeyId</code> field value in the returned result.</li> </ul>
ForceStop	No	Boolean	<p>Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values:</p> <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown in case of a failed normal shutdown.</li> <li>FALSE: Do not perform a forced shutdown.</li> </ul> <p>Default: FALSE.</p>

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.

Error Code	Description
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidKeyId.Malformed	Invalid key pair ID. The specified key pair ID is in an incorrect format. For example, skey-1122 has an invalid ID length.
InvalidKeyId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Bind a key pair to a CVM

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=AssociateInstancesKeyPairs
&InstanceIds.0=ins-1e4r6y8i
&InstanceIds.1=ins-3e56fg78
&KeyIds.0=skey-4e5ty7i8
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# DisassociateInstancesKeyPairs

Last updated : 2018-10-12 16:02:56

## 1. API Description

Domain name for API request: cvm.tencentcloudapi.com

This API (DisassociateInstancesKeyPairs) is used to unbind a key pair from an instance.

- Only Linux instances in a status of STOPPED are supported.
- After the key pair is unbound, the instance can be logged in with the original password.
- If you have not set a password, you cannot log in to the instance using SSH after unbinding. You can call the API ResetInstancesPassword to set the login password.
- Batch operations are supported. A maximum of 100 instances are allowed in a batch for each request. If there is any instance that is unsupported for the operation in the batch of instances, an error code is returned.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: cvm.ap-shanghai-fsi.tencentcloudapi.com

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DisassociateInstancesKeyPairs
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.



Parameter Name	Required	Type	Description
InstanceIds.N	Yes	Array of String	<p>ID(s) of one or more instances you are working with. A maximum of 100 instances are allowed in a batch for each request.</p> <p>You can obtain the available instance ID by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the instance ID by logging in to the <a href="#">Console</a>.</li> <li>Call the API <a href="#">DescribeInstances</a> to obtain the instance ID from the <code>InstanceId</code> field value in the returned result.</li> </ul>
KeyIds.N	Yes	Array of String	<p>List of key pair IDs. A maximum of 100 key pairs are allowed in a batch for each request. A key pair ID takes a format such as <code>skey-11112222</code>.</p> <p>You can obtain the available key ID by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the key ID by logging in to the <a href="#">Console</a>.</li> <li>Call the API <a href="#">DescribeKeyPairs</a> to obtain the key pair ID from the <code>KeyId</code> field value in the returned result.</li> </ul>
ForceStop	No	Boolean	<p>Indicates whether to perform a forced shutdown on a running instance. It is recommended to manually shut down the running instance before resetting the user password. Supported values:</p> <ul style="list-style-type: none"> <li>TRUE: Perform a forced shutdown in case of a failed normal shutdown.</li> <li>FALSE: Do not perform a forced shutdown.</li> </ul> <p>Default: FALSE.</p>

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidInstance.NotSupported	Unsupported instance.
InvalidInstanceId.Malformed	Invalid instance ID . Specified instance ID is not in a correct format. For example, ins-1122 has an invalid instance ID length.
InvalidInstanceId.NotFound	No instance found.
InvalidKeyId.Malformed	Invalid key pair ID. The specified key pair ID is in an incorrect format. For example, skey-1122 has an invalid ID length.
InvalidKeyId.NotFound	Invalid key pair ID. The specified key pair ID does not exist.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValue.LimitExceeded	Number of parameter values exceeds the limit.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Unbind a key pair from an instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=unBindInstanceKey
&instanceIds.0=ins-w34e5r19
&keyId=skey-e3r6y7ji
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7"
  }
}
```

# DescribeKeyPairs

Last updated : 2018-10-12 16:02:57

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`DescribeKeyPairs`) is used to query key pair information.

- Key pair is a pair of keys generated by an algorithm. In the generated key pair, one key is open to the public and called public key, and the other key is kept by user and called private key. The public key content of a key pair can be queried via this API, but the private key content is not retained by system.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
<code>Action</code>	Yes	String	Common parameter. The value used for this API: <code>DescribeKeyPairs</code>
<code>Version</code>	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
<code>Region</code>	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
<code>KeyIds.N</code>	No	Array of String	ID of key pair, such as <code>skey-11112222</code> . (This API supports filtering multiple IDs at a time. For the format of this parameter, please see the <code>id.N</code> section in the API <a href="#">Introduction</a> ). The parameter does not support specifying both <code>KeyIds</code> and <code>Filters</code> . You can query a key pair ID by logging in to the <a href="#">Console</a> .

Parameter Name	Required	Type	Description
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <ul style="list-style-type: none"> <li>project-id - Integer - Required: No - (Filter condition) Filter by project ID. You can query the project ID via <a href="#">project list</a>, or call the API <a href="#">DescribeProject</a> to obtain the project ID from the projectId field value in the returned result.</li> <li>key-name - String - Required: No - (Filter condition). Filter by key pair name.</li> </ul> The parameter does not support specifying both <code>KeyIds</code> and <code>Filters</code> .
Offset	No	Integer	Offset. Default is 0. For more information about <code>Offset</code> , please see the relevant section in API <a href="#">Introduction</a> .
Limit	No	Integer	Number of values to be returned. Default is 20. Maximum is 100. For more information about <code>Limit</code> , please see the relevant section in API <a href="#">Introduction</a> .

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The number of key pairs matching the filter condition.
KeyPairSet	Array of <a href="#">KeyPair</a>	List of details of key pairs.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidFilter	Invalid filter.
InvalidFilterValue.LimitExceeded	<a href="#">Filter</a> Number of parameter values exceeds the limit.

Error Code	Description
InvalidKeyPair.LimitExceeded	Number of key pairs exceeds the limit.
InvalidKeyPairId.Malformed	Invalid key pair ID. The specified key pair ID is in an incorrect format. For example, skey-1122 has an invalid ID length.
InvalidParameter	Invalid parameter. The parameter does not meet the requirement or is not supported.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidParameterValueLimit	Number of parameter values exceeds the limit.
InvalidParameterValueOffset	Invalid parameter value. The specified Offset is invalid.

## 5. Example

### Example 1 Example

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeKeyPairs
&Filters.0.Name=key-name
&Filters.0.Values.0=Tencent
&Offset=0
&Limit=20
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "KeyPairSet": [
      {
        "AssociatedInstanceIds": [],
        "CreateTime": "2016-12-02T00:22:40Z",
        "Description": "",
        "KeyId": "skey-mv9zyjj",
        "KeyName": "Tencent",
        "PublicKey": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDP0Yw2T4itUKOJQIK69c1Asy1UO88cxEbuJR5
Jbr0e/Ey1v4ZKAUzDnsBnFlf4hKPA1YvMB8RBYj4GcLtM7PrKnBNNram8rgl73X/kIOO8oqKv+J/XUA7KHH1Y6wc
n1RTRTMdDHbGhW1q/UpfeylNTbf+wEIWhEfaL5FKQm4hqCw== skey_112168"
      }
    ],
  }
}
```

```
"RequestId": "6ef60bec-0242-43af-bb20-270359fb54a7",  
"TotalCount": 1  
}  
}
```

# ImportKeyPair

Last updated : 2018-10-12 16:02:56

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`ImportKeyPair`) is used to import key pairs.

- This API only imports a key pair to user's account and does not automatically bind the key pair to an instance. You can use API [AssociateInstancesKeyPair](#) to bind a key pair to an instance.
- The key pair name and the public key text of the key pair need to be specified.
- If you have only the private key, you can convert the private key to a public key using SSL tool before importing it.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ImportKeyPair</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
KeyName	Yes	String	Name of key pair, which can consist of numbers, letters, and underscores, with a length of not more than 25 characters.

Parameter Name	Required	Type	Description
ProjectId	Yes	Integer	<p>The ID of the <a href="#">project</a> to which the created key pair belongs.</p> <p>You can obtain the project ID by either of the following ways:</p> <ul style="list-style-type: none"> <li>Query the project ID via the <a href="#">project list</a></li> <li>Obtain the project ID from the <code>projectId</code> field value in the returned result of API <a href="#">DescribeProject</a>.</li> </ul> <p>If it is the default project, enter 0.</p>
PublicKey	Yes	String	The key pair's public key text, such as <code>OpenSSH RSA</code> .

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InternalServerError	Internal error.
InvalidKeyPair.LimitExceeded	Number of key pairs exceeds the limit.
InvalidKeyPairName.Duplicate	Duplicate key pair name.
InvalidKeyPairName.Empty	Key name is empty.
InvalidKeyPairName.IncludeIllegalChar	Key name contains invalid characters. Key name can only contain letters, numbers and underscores.
InvalidKeyPairName.TooLong	Key name length exceeded 25 characters



Error Code	Description
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidPublicKey.Duplicate	Invalid public key. The specified public key already exists.
InvalidPublicKey.Malformed	Invalid public key. The specified public key is in an incorrect format and does not conform to the OpenSSH RSA format.
MissingParameter	Parameter is missing. A required parameter is missing in the request.

## 5. Example

### Example 1 Import a key pair

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=ImportKeyPair
&keyName=operation_key
&ProjectId=0
&PublicKey=ssh-rsa XXXXXXXXXXXXXXXX== skey_45071
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "KeyId": "skey-4e5ty7i8",
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7"
  }
}
```

# Dedicated Host Related APIs

## AllocateHosts

Last updated : 2018-10-12 16:02:24

### 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (`AllocateHosts`) is used to create one or more CDH instances with specified configuration.

- When `HostChargeType` is `PREPAID`, the `HostChargePrepaid` parameter must be specified.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

### 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>AllocateHosts</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Placement	Yes	<a href="#">Placement</a>	Location of the instance. This parameter is used to specify the availability zone and project to which the instance belongs.
ClientToken	No	String	A string to ensure the idempotency of the request.

Parameter Name	Required	Type	Description
HostChargePrepaid	No	ChargePrepaid	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the usage period, whether to set automatic renewal and other attributes of the instance purchased on a prepaid basis. This parameter is required if the billing method for the specified instance is prepaid.
HostChargeType	No	String	Billing type of the instance. Only PREPAID (the prepaid mode) is supported.
HostType	No	String	CDH instance model, which defaults to 'HS1'.
HostCount	No	Integer	Number of CDH instances to be purchased.

### 3. Output Parameters

Parameter Name	Type	Description
HostIdSet	Array of String	List of IDs of CDH instances on which new cloud servers are created.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InvalidPeriod	Invalid period. Supported period values are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36 (in month).
InvalidProjectId.NotFound	Invalid project ID. The specified project ID does not exist.
InvalidRegion.NotFound	The region cannot be found.
InvalidZone.MismatchRegion	The specified zone does not exist.

## 5. Example

### Example 1 Purchase a prepaid CDH instance

#### Input example

```
https://cvm.tencentcloudapi.com/?Action=AllocateHosts
&Placement.Zone=ap-guangzhou-2
&HostChargeType=PREPAID
&HostChargePrepaid.Period=1
&HostChargePrepaid.RenewFlag=NOTIFY_AND_AUTO_RENEW
&HostType=HS1
&HostCount=1
&<Common request parameters>
```

#### Output example

```
{
  "Response": {
    "HostIdSet": [
      "host-lan4lb2k"
    ],
    "RequestID": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

# DescribeHosts

Last updated : 2018-10-12 16:02:23

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (DescribeHosts) is used to get the details of one or more CDH instances.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: DescribeHosts
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
Filters.N	No	Array of <a href="#">Filter</a>	Filter conditions. <ul style="list-style-type: none"> <li>zone - String - Required: No - (Filter condition) Filter by availability zone.</li> <li>project-id - Integer - Required: No - (Filter condition) Filter by project ID. You can view the list of created projects by calling DescribeProject or by logging in to the console. You can also create a new project by calling AddProject.</li> <li>host-id - String - Required: No - (Filter condition) Filter by CDH ID. Example of a CDH ID: host-11112222.</li> <li>host-name - String - Required: No - (Filter condition) Filter by CDH instance name.</li> <li>host-state - String - Required: No - (Filter condition) Filter by CDH instance status. (PENDING: Creating LAUNCH_FAILURE: Creation failed RUNNING: Running EXPIRED: Expired)</li> </ul>
Offset	No	Integer	Offset. Default is 0.

Parameter Name	Required	Type	Description
Limit	No	Integer	Number of values to be returned. Default is 20. Maximum is 100.

### 3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	Number of CDH instances that meet the condition
HostSet	Array of <a href="#">HostItem</a>	Details of a CDH instance
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

### 4. Error Codes

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

Error Code	Description
InvalidHostId.Malformed	Invalid <a href="#">CDH ID</a> . The specified <a href="#">CDH ID</a> is in an incorrect format. For example, <code>host-1122</code> has an invalid <a href="#">ID</a> length.
InvalidParameterValue	Invalid parameter value. The parameter value is in an incorrect format or is not supported.
InvalidZone.MismatchRegion	The specified <a href="#">zone</a> does not exist.

### 5. Example

#### Example 1 Query the CDH instance list

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=DescribeHosts
&Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-2
&Offset=0
```

```
&Limit=20
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "HostSet": [
      {
        "CreatedTime": "2018-01-04T09:45:39Z",
        "ExpiredTime": "2025-05-04T09:45:42Z",
        "HostChargeType": "PREPAID",
        "HostId": "host-ey16rkyg",
        "HostName": "bibibibib-111",
        "HostResource": {
          "CpuAvailable": 24,
          "CpuTotal": 24,
          "DiskAvailable": 1200,
          "DiskTotal": 1200,
          "MemAvailable": 56.0,
          "MemTotal": 56.0
        },
        "HostState": "RUNNING",
        "HostType": "HS1",
        "Instancelds": [],
        "Placement": {
          "ProjectId": 0,
          "Zone": "ap-guangzhou-2"
        },
        "RenewFlag": "NOTIFY_AND_AUTO_RENEW"
      }
    ],
    "RequestId": "6EF60BEC-0242-43AF-BB20-270359FB54A7",
    "TotalCount": 1
  }
}
```

# ModifyHostsAttribute

Last updated : 2018-10-12 16:02:22

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (ModifyHostsAttribute) is used to modify the attributes of a CDH instance, such as instance name and renewal flag. Either the parameter `HostName` or `RenewFlag` must be set, but not both.

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter `Region` is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: <code>ModifyHostsAttribute</code>
Version	Yes	String	Common parameter. The value used for this API: <code>2017-03-12</code>
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
HostIds.N	Yes	Array of String	ID(s) of one or more CDH instances you are working with.
HostName	No	String	Displayed name of a CDH instance. It is limited to 60 characters.



Parameter Name	Required	Type	Description
RenewFlag	No	String	<p>Auto renewal flag. Value range:</p> <ul style="list-style-type: none"> <li>NOTIFY_AND_AUTO_RENEW: notify expiry and renew automatically</li> <li>NOTIFY_AND_MANUAL_RENEW: notify expiry but not renew automatically</li> <li>DISABLE_NOTIFY_AND_MANUAL_RENEW: neither notify expiry nor renew automatically</li> </ul> <p>If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance will be automatically renewed on a monthly basis when the account balance is sufficient.</p>

### 3. Output Parameters

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

### 4. Error Codes

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

Error Code	Description
InvalidHost.NotSupported	This host instance is not supported for performing the specified operation.
InvalidHostId.Malformed	Invalid CDH ID . The specified CDH ID is in an incorrect format. For example, host-1122 has an invalid ID length.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to the request account.

### 5. Example

#### Example 1 Modify the attributes of a CDH instance

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=ModifyHostsAttribute
&HostIds.0=host-ey16rkyg
&HostName=web server
&<Common request parameters>
```

### Output example

```
{
  "Response": {
    "RequestID": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

# RenewHosts

Last updated : 2018-10-12 16:02:21

## 1. API Description

Domain name for API request: `cvm.tencentcloudapi.com`

This API (RenewHosts) is used to renew the prepaid CDH instances.

- Only the prepaid instances are supported, otherwise a specific [error code](#) will be returned.
- Make sure your account balance is sufficient for renewals. You can query the account balance via API [DescribeAccountBalance](#) .

A maximum of 10 requests can be initiated per second for this API.

Note: This API supports Finance regions. If the common parameter Region is a Finance region, a domain name with the Finance region needs to be specified, for example: `cvm.ap-shanghai-fsi.tencentcloudapi.com`

## 2. Input Parameters

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

Parameter Name	Required	Type	Description
Action	Yes	String	Common parameter. The value used for this API: RenewHosts
Version	Yes	String	Common parameter. The value used for this API: 2017-03-12
Region	Yes	String	Common parameter. For more information, please see the <a href="#">list of regions</a> supported by the product.
HostIds.N	Yes	Array of String	ID(s) of one or more CDH instances you are working with.
HostChargePrepaid	Yes	<a href="#">ChargePrepaid</a>	Indicates the relevant parameter setting for the prepaid mode. This parameter can specify the usage period, whether to set automatic renewal and other attributes of the instance purchased on a prepaid basis. This parameter is required if the billing method for the specified instance is prepaid.

### 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. Error Codes

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

Error Code	Description
InvalidHost.NotSupported	This host instance is not supported for performing the specified operation.
InvalidHostId.Malformed	Invalid <b>CDH ID</b> . The specified <b>CDH ID</b> is in an incorrect format. For example, <code>host-1122</code> has an invalid <b>ID</b> length.
InvalidHostId.NotFound	The specified HostId does not exist, or does not belong to the request account.

### 5. Example

#### Example 1 Renew a CDH instance

##### Input example

```
https://cvm.tencentcloudapi.com/?Action=RenewHosts
&HostChargePrepaid.Period=1
&HostChargePrepaid.RenewFlag=NOTIFY_AND_AUTO_RENEW
&HostIds.0=host-ey16rkyg
&<Common request parameters>
```

##### Output example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

# Data Types

Last updated : 2018-10-12 16:03:09

## ActionTimer

Timed task

Used by actions: RunInstances.

Name	Type	Required	Description
Externals	<a href="#">Externals</a>	Yes	Extended data
TimerAction	String	No	Timer name. Only "TerminateInstances" is supported.
ActionTime	String	No	Execution time, which should be 5 minutes later than the current time. For example: 2018-5-29 11:26:40.

## ChargePrepaid

Parameters related to Prepaid billing method, including purchased usage period, auto renewal logic, etc.

Used by actions: AllocateHosts, RenewHosts.

Name	Type	Required	Description
Period	Integer	Yes	Purchasable usage period of an instance (in month). Value range: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36.
RenewFlag	String	No	<p>Auto renewal flag. Value range:</p> <ul style="list-style-type: none"> <li>NOTIFY_AND_AUTO_RENEW: Notify expiry and renew automatically</li> <li>NOTIFY_AND_MANUAL_RENEW: Notify expiry but not renew automatically</li> <li>DISABLE_NOTIFY_AND_MANUAL_RENEW: Neither notify expiry nor renew automatically</li> </ul> <p>Default: NOTIFY_AND_AUTO_RENEW. If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance will be automatically renewed on a monthly basis when the account balance is sufficient.</p>

## DataDisk

## Information on data disk

Used by actions: DescribeInstances, InquiryPriceResizeInstanceDisks, InquiryPriceRunInstances, ResizeInstanceDisks, RunInstances.

Name	Type	Required	Description
DiskSize	Integer	Yes	Disk size (in GB). The minimum adjustment increment is 10 GB. Value ranges vary depending on different disk types. For more information on limits, please see <a href="#">CVM Instance Configuration</a> . Default is 0, indicating that no data disk is purchased. For more information on limits, please see relevant product documentation.
DiskType	String	No	Type of data disk. For more information about the limits on data disk types, please see <a href="#">CVM Instance Configuration</a> . Value range: <ul style="list-style-type: none"> <li>LOCAL_BASIC: Local disk</li> <li>LOCAL_SSD: Local SSD disk</li> <li>CLOUD_BASIC: HDD cloud disk</li> <li>CLOUD_PREMIUM: Premium cloud storage</li> <li>CLOUD_SSD: SSD cloud disk</li> </ul> Default value: LOCAL_BASIC.  This parameter is invalid for the API <code>ResizeInstanceDisk</code> .
DiskId	String	No	ID of data disk. Neither LOCAL_BASIC nor LOCAL_SSD comes with an ID. This parameter is not supported for now.

## DisasterRecoverGroup

## Information on disaster recovery group

Used by actions: DescribeDisasterRecoverGroups.

Name	Type	Description
DisasterRecoverGroupId	String	ID of a spread placement group.
Name	String	Name of a spread placement group with a length of 1-60 characters.
Type	String	Type of a spread placement group. Value range: <ul style="list-style-type: none"> <li>HOST: Physical machine</li> <li>SW: Exchange</li> <li>RACK: Rack</li> </ul>
CvmQuotaTotal	Integer	Maximum number of CVMs that can be hosted in a spread placement group.

Name	Type	Description
CurrentNum	Integer	Number of CVMs hosted in a spread placement group.
InstanceIds	Array of String	List of IDs of CVMs in a spread placement group.
CreateTime	Timestamp	Creation time of a spread placement group.

## EnhancedService

The enabling conditions and settings of an instance's enhanced services, such as Cloud Security, Cloud Monitor and other instance agents.

Used by actions: `InquiryPriceResetInstance`, `InquiryPriceRunInstances`, `ResetInstance`, `RunInstances`.

Name	Type	Required	Description
SecurityService	<a href="#">RunSecurityServiceEnabled</a>	No	Enables Cloud Security. If this parameter is not specified, the Cloud Security service is enabled by default.
MonitorService	<a href="#">RunMonitorServiceEnabled</a>	No	Enables Cloud Monitor. If this parameter is not specified, the Cloud Monitor service is enabled by default.

## Externals

Extended data

Used by actions: `DescribeZoneInstanceConfigInfos`, `RunInstances`.

Name	Type	Required	Description
ReleaseAddress	Boolean	No	Release address
UnsupportNetworks	Array of String	No	Network types that are not supported
StorageBlockAttr	<a href="#">StorageBlock</a>	No	Attributes of local HDD storage

## Filter

Key-value pair filters for conditional filtering queries, such as filter ID, name, status, etc.

- If more than one `Filter` exists, the relation between these `Filters` is a logical `AND`.
- If there are multiple `Values` for only one `Filter`, the relation between these `Values` under the same `Filter` is a logical `OR`.

Take the `Filter` in the API `DescribeInstances` as an example. We can use the following filters to query the instance that resides in the availability zone ( `zone` ) of Guangzhou Zone 1 **and** is billed ( `instance-charge-type` ) on a prepaid basis **or** on a postpaid basis:

```
Filters.0.Name=zone
&Filters.0.Values.0=ap-guangzhou-1
&Filters.1.Name=instance-charge-type
&Filters.1.Values.0=PREPAID
&Filters.1.Values.1=POSTPAID_BY_HOUR
```

Used by actions: `DescribeHosts`, `DescribeImages`, `DescribeInstanceTypeConfigs`, `DescribeInstances`, `DescribeKeyPairs`, `DescribeZoneInstanceConfigInfos`.

Name	Type	Required	Description
Name	String	Yes	Fields to be filtered.
Values	Array of String	Yes	Filter values of the field.

## HostItem

The details of a CDH instance

Used by actions: `DescribeHosts`.

Name	Type	Description
Placement	<a href="#">Placement</a>	Location of the CDH instance. This parameter is used to specify the availability zone and project to which the instance belongs.
HostId	String	CDH instance ID
HostType	String	CDH instance type
HostName	String	CDH instance name
HostChargeType	String	Billing type of a CDH instance
RenewFlag	String	Auto renewal flag of a CDH instance



Name	Type	Description
CreatedTime	Timestamp	Creation time of a CDH instance
ExpiredTime	Timestamp	Expiration time of a CDH instance
InstanceIds	Array of String	List of IDs of CDH instances on which cloud servers have been created
HostState	String	CDH instance status
HostIp	String	CDH instance IP
HostResource	<a href="#">HostResource</a>	The resource information of a CDH instance

## HostResource

The resource information of a CDH instance

Used by actions: DescribeHosts.

Name	Type	Description
CpuTotal	Integer	Total number of CPU cores in a CDH instance
CpuAvailable	Integer	Number of available CPU cores in a CDH instance
MemTotal	Float	Total memory size in a CDH instance (in GiB)
MemAvailable	Float	Available memory size in a CDH instance (in GiB)
DiskTotal	Integer	Total disk size in a CDH instance (in GiB)
DiskAvailable	Integer	Available disk size in a CDH instance (in GiB)

## Image

An array of detailed information of an image, including the main statuses and attributes of the image.

Used by actions: DescribeImages.

Name	Type	Description
CreatedTime	Timestamp	Creation time of an image
ImageName	String	Image name

Name	Type	Description
ImageDescription	String	Image description
ImageSize	Integer	Image size
Architecture	String	Image architecture
ImageState	String	Image status
ImageId	String	Image ID
OsName	String	Image's operating system
ImageType	String	Image type
Platform	String	Image source platform
ImageCreator	String	Image creator
ImageSource	String	Image source

## ImageOsList

Supported Windows/Linux operating systems.

Used by actions: DescribeImportImageOs.

Name	Type	Description
Windows	Array of String	Supported Windows operating systems
Linux	Array of String	Supported Linux operating systems

## Instance

The information of an instance

Used by actions: DescribeInstances.

Name	Type	Description
OsName	String	Operating system name
SecurityGroupIds	Array of String	The security group to which an instance belongs. This parameter can be obtained from the sgId field in the returned values of <a href="#">DescribeSecurityGroups</a> .

Name	Type	Description
LoginSettings	<a href="#">LoginSettings</a>	Login settings of an instance. Only the key associated with the instance is returned.
InstanceState	String	Instance status. Value range: <ul style="list-style-type: none"> <li>PENDING: Creating</li> <li>LAUNCH_FAILED: Creation failed</li> <li>RUNNING: Running</li> <li>STOPPED: Shut down</li> <li>STARTING: Starting up</li> <li>STOPPING: Shutting down</li> <li>REBOOTING: Restarting</li> <li>SHUTDOWN: To be terminated</li> <li>TERMINATING: Terminating</li> </ul>
Placement	<a href="#">Placement</a>	Location of an instance.
InstanceId	String	Instance ID .
InstanceType	String	Instance model.
CPU	Integer	Number of CPU cores in an instance (in core).
Memory	Integer	Instance memory capacity (in GB ).
RestrictState	String	Instance business status. Value range: <ul style="list-style-type: none"> <li>NORMAL: Instance is normal</li> <li>EXPIRED: Instance has expired</li> <li>PROTECTIVELY_ISOLATED: Instance is isolated</li> </ul>
InstanceName	String	Instance name.
InstanceChargeType	String	Billing method of an instance. Value range: <ul style="list-style-type: none"> <li>PREPAID : Prepaid (by year/month)</li> <li>POSTPAID_BY_HOUR : Postpaid (by traffic)</li> <li>CDHPAID : CDH paid, i.e., only pay for CDH , excluding instances on the CDH .</li> </ul>
SystemDisk	<a href="#">SystemDisk</a>	Information of the instance's system disk.
DataDisks	Array of <a href="#">DataDisk</a>	Information of the instance's data disk. Only the data disk purchased with the instance is supported.
PrivateIpAddresses	Array of String	The list of private IPs of the instance's primary ENI.
PublicIpAddresses	Array of String	The list of public IPs of the instance's primary ENI.
InternetAccessible	<a href="#">InternetAccessible</a>	Instance bandwidth information.

Name	Type	Description
VirtualPrivateCloud	VirtualPrivateCloud	Information of the VPC to which the instance belongs.
ImageId	String	ID of the image used by the production instance.
RenewFlag	String	Auto renewal flag. Value range: <ul style="list-style-type: none"> <li>NOTIFY_AND_MANUAL_RENEW : Notify expiry but not renew automatically</li> <li>NOTIFY_AND_AUTO_RENEW : Notify expiry and renew automatically</li> <li>DISABLE_NOTIFY_AND_MANUAL_RENEW : Neither notify expiry nor renew automatically</li> </ul>
CreatedTime	Timestamp	Creation time, in the format of YYYY-MM-DDThh:mm:ssZ according to the ISO8601 standard. UTC time is used.
ExpiredTime	Timestamp	Expiration time, in the format of YYYY-MM-DDThh:mm:ssZ according to the ISO8601 standard. UTC time is used.

## InstanceChargePrepaid

The billing method of an instance

Used by actions: InquiryPriceModifyInstancesChargeType, InquiryPriceRenewInstances, InquiryPriceRunInstances, ModifyInstancesChargeType, RenewInstances, RunInstances.

Name	Type	Required	Description
Period	Integer	Yes	Purchasable usage period of an instance (in month). Value range: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 24, 36.
RenewFlag	String	No	Auto renewal flag. Value range: <ul style="list-style-type: none"> <li>NOTIFY_AND_AUTO_RENEW: Notify expiry and renew automatically</li> <li>NOTIFY_AND_MANUAL_RENEW: Notify expiry but not renew automatically</li> <li>DISABLE_NOTIFY_AND_MANUAL_RENEW: Neither notify expiry nor renew automatically</li> </ul> <p>Default: NOTIFY_AND_AUTO_RENEW. If this parameter is specified as NOTIFY_AND_AUTO_RENEW, the instance will be automatically renewed on a monthly basis when the account balance is sufficient.</p>

## InstanceFamilyConfig

The configuration information of an instance model family, such as {'InstanceFamilyName': 'Standard S1', 'InstanceFamily': 'S1'}, {'InstanceFamilyName': 'Network Optimized N1', 'InstanceFamily': 'N1'}, {'InstanceFamilyName': 'High IO I1', 'InstanceFamily': 'I1'}, etc.

Used by actions: DescribeInstanceFamilyConfigs.

Name	Type	Description
InstanceFamilyName	String	Full name of a model family
InstanceFamily	String	Acronym of a model family

## InstanceMarketOptionsRequest

Options related to spot requests

Used by actions: InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
MarketType	String	No	Market type. Only "spot" is supported.
SpotOptions	<a href="#">SpotMarketOptions</a>	No	Spot-related options

## InstanceStatus

The status of an instance. For more information on status types, please see [List of Instance Statuses](#)

Used by actions: DescribeInstancesStatus.

Name	Type	Description
InstanceId	String	Instance ID .
InstanceState	String	<a href="#">Instance Status</a> .

## InstanceTypeConfig

The configuration information of an instance model

Used by actions: DescribeInstanceTypeConfigs.

Name	Type	Description
Zone	String	Availability zone.
InstanceType	String	Instance model.
InstanceFamily	String	Instance model series.
GPU	Integer	Number of GPU cores (in core).
CPU	Integer	Number of CPU cores (in core).
Memory	Integer	Memory capacity (in GB).
CbsSupport	String	Whether the Cloud Block Storage is supported. Value range: <ul style="list-style-type: none"> <li>TRUE : Supported</li> <li>FALSE : Not supported</li> </ul>
InstanceTypeState	String	Model status. Value range: <ul style="list-style-type: none"> <li>AVAILABLE : Available</li> <li>UNAVAILABLE : Not available</li> </ul>

## InstanceTypeQuotaItem

The quota information of an instance model.

Used by actions: DescribeZoneInstanceConfigInfos.

Name	Type	Description
Zone	String	Availability zone.
InstanceType	String	Instance model.
InstanceChargeType	String	Billing method of an instance. Value range: <i>PREPAID</i> : Prepaid (by year/month) <i>POSTPAID_BY_HOUR</i> : Postpaid (by traffic) * <i>CDHPAID</i> : CDH paid, i.e., only pay for CDH, excluding instances on the CDH
NetworkCard	Integer	ENI type. For example, 25 represents an ENI of 25 GB.
Externals	<a href="#">Externals</a>	Scaled attributes.
Cpu	Integer	Number of CPU cores in an instance (in core).
Memory	Integer	Instance memory capacity (in GB).
InstanceFamily	String	Instance model series.

Name	Type	Description
TypeName	String	Model name.
LocalDiskTypeList	Array of <a href="#">LocalDiskType</a>	List of local disk specifications.
Status	String	Whether an instance is sold.
Price	<a href="#">ItemPrice</a>	Price of an instance.

## InternetAccessible

The accessibility, billing method and maximum bandwidth for an instance on the public network

Used by actions: DescribeInstanceInternetBandwidthConfigs, DescribeInstances, InquiryPriceResetInstancesInternetMaxBandwidth, InquiryPriceRunInstances, ResetInstancesInternetMaxBandwidth, RunInstances.

Name	Type	Required	Description
InternetChargeType	String	No	Network billing type. Value range: <ul style="list-style-type: none"> <li>BANDWIDTH_PREPAID: Prepaid by bandwidth</li> <li>TRAFFIC_POSTPAID_BY_HOUR: Postpaid by traffic on an hourly basis</li> <li>BANDWIDTH_POSTPAID_BY_HOUR: Postpaid by bandwidth on an hourly basis</li> <li>BANDWIDTH_PACKAGE: Bandwidth package</li> </ul> Default: TRAFFIC_POSTPAID_BY_HOUR.
InternetMaxBandwidthOut	Integer	No	Bandwidth cap of the public network (in Mbps). Default: 0 Mbps. The bandwidth cap varies among different models. For more information, please see <a href="#">Purchase Network Bandwidth</a> .
PublicIpAssigned	Boolean	No	Whether to assign public IP. Value range: <ul style="list-style-type: none"> <li>TRUE: Assign public IP</li> <li>FALSE: Do not assign public IP</li> </ul> If the public network bandwidth is greater than 0 Mbps, you're free to choose whether to enable the public IP (which is enabled by default). If the public network bandwidth is 0 Mbps, the public IP is not assigned.

## InternetBandwidthConfig

Information of bill-by-bandwidth method

Used by actions: DescribeInstanceInternetBandwidthConfigs.

Name	Type	Description
StartTime	Timestamp	Start time, in the format of YYYY-MM-DDThh:mm:ssZ according to the ISO8601 standard. UTC time is used.
EndTime	Timestamp	End Time, in the format of YYYY-MM-DDThh:mm:ssZ according to the ISO8601 standard. UTC time is used.
InternetAccessible	<a href="#">InternetAccessible</a>	Instance bandwidth information.

## InternetChargeTypeConfig

Network billing

Used by actions: DescribeInternetChargeTypeConfigs.

Name	Type	Required	Description
InternetChargeType	String	No	Network billing method
Description	String	No	Description of network billing method

## ItemPrice

The price of an item

Used by actions: DescribeZoneInstanceConfigInfos, InquiryPriceModifyInstancesChargeType, InquiryPriceRenewInstances, InquiryPriceResetInstance, InquiryPriceResetInstancesInternetMaxBandwidth, InquiryPriceResetInstancesType, InquiryPriceResizeInstanceDisks, InquiryPriceRunInstances.

Name	Type	Description
UnitPrice	Float	Subsequent unit price (in CNY)



Name	Type	Description
ChargeUnit	String	Subsequent billing unit. Value Range: <ul style="list-style-type: none"> <li>• HOUR: Bill by hour. Scenarios using this billing unit include: postpaid by hour (POSTPAID_BY_HOUR) and postpaid by bandwidth on an hourly basis (BANDWIDTH_POSTPAID_BY_HOUR).</li> <li>• GB: The billing unit is calculated in GB. The scenario using this billing unit is: postpaid by traffic on an hourly basis (TRAFFIC_POSTPAID_BY_HOUR).</li> </ul>
OriginalPrice	Float	Original price of a prepaid instance (in CNY).
DiscountPrice	Float	Discount price of a prepaid instance (in CNY).

## KeyPair

The information of a key pair

Used by actions: CreateKeyPair, DescribeKeyPairs.

Name	Type	Description
KeyId	String	Key pair ID , the unique ID of an key pair.
KeyName	String	Key pair name.
ProjectId	String	ID of the project to which a key pair belongs.
Description	String	Key pair description.
PublicKey	String	The public key (in plain text) of the key pair.
PrivateKey	String	The private key (in plain text) of the key pair. Tencent Cloud will not retain user's private key. Please keep it well.
AssociatedInstanceIds	Array of String	The list of IDs of instances associated with the key.
CreatedTime	Timestamp	Creation time, in the format of YYYY-MM-DDThh:mm:ssZ according to the ISO8601 standard. UTC time is used.

## LocalDiskType

Specifications of a local disk

Used by actions: DescribeZoneInstanceConfigInfos.

Name	Type	Description
Type	String	Type of a local disk.
PartitionType	String	Attributes of a local disk.
MinSize	Integer	Minimum size of a local disk.
MaxSize	Integer	Maximum size of a local disk.

## LoginSettings

The configuration and information related to instance login.

Used by actions: DescribeInstances, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description
Password	String	No	<p>Instance login password. Password complexity requirement varies with different operating systems, as shown below:</p> <ul style="list-style-type: none"> <li>Password for a Linux instance should be a combination of 8 to 16 characters comprised of at least two of the following types: [a-z,A-Z], [0-9], and [() ~ ! @ # \$ % ^ &amp; * - + = &amp;#124; { } [ ] ; : ' , . ? / ].</li> </ul> <p>The password for a Windows instance should be a combination of 12-16 characters comprised of at least three of the following types: [a-z], [A-Z], [0-9] and [() ~ ! @ # \$ % ^ &amp; * - + = { } [ ] ; : ' , . ? / ].</p> <p>If this parameter is not specified, a password is randomly generated and sent to you via the internal message.</p>
KeyIds	Array of String	No	<p>List of key IDs. An instance associated with the key can be accessed using the corresponding private key. KeyId can be obtained via the API DescribeKeyPairs. A key and a password cannot be specified at the same time, and specifying key is not supported in Windows. You can specify only one key when purchasing the instance.</p>

Name	Type	Required	Description
KeepImageLogin	String	No	<p>Keep the original settings for an image. This parameter cannot be specified along with Password or KeyIds.N. You can specify this parameter to TRUE only when you create an instance using a custom image, shared image, or image imported from external resources. Value range:</p> <ul style="list-style-type: none"> <li>TRUE: Keep the login settings for the image</li> <li>FALSE: Do not keep the login settings for the image</li> </ul> <p>Default: FALSE.</p>

## OsVersion

Supported operating system types.

Used by actions: DescribeImportImageOs.

Name	Type	Description
OsName	String	Operating system type
OsVersions	Array of String	Supported operating system version
Architecture	Array of String	Supported operating system architecture

## Placement

The abstract location of an instance, including its availability zone, project, and host (CDH products only)

Used by actions: AllocateHosts, DescribeHosts, DescribeInstances, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
Zone	String	Yes	ID of the <a href="#">availability zone</a> to which the instance belongs. This parameter can also be obtained from the Zone field in the returned values of <a href="#">DescribeZones</a> .
ProjectId	Integer	No	<p>ID of the project to which the instance belongs.</p> <p>This parameter can be obtained from the Zone field in the returned values of <a href="#">DescribeProject</a>. If this is left empty, default project is used.</p>

Name	Type	Required	Description
HostIds	Array of String	No	The list of IDs of CDHs to which your instances belongs. If you have purchased CDHs and specified this parameter, the instances you purchased will be randomly deployed on these CDHs.

## Price

### Price

Used by actions: `InquiryPriceModifyInstancesChargeType`, `InquiryPriceRenewInstances`, `InquiryPriceResetInstance`, `InquiryPriceResetInstancesInternetMaxBandwidth`, `InquiryPriceResetInstancesType`, `InquiryPriceResizeInstanceDisks`, `InquiryPriceRunInstances`.

Name	Type	Description
InstancePrice	<a href="#">ItemPrice</a>	Instance price
BandwidthPrice	<a href="#">ItemPrice</a>	Network price

## RegionInfo

### Region information

Used by actions: `DescribeRegions`.

Name	Type	Description
Region	String	Region name. For example, ap-guangzhou
RegionName	String	Region description. For example, South China (Guangzhou)
RegionState	String	Whether the region is available

## RunMonitorServiceEnabled

### Information on the Cloud Monitor service

Used by actions: `InquiryPriceResetInstance`, `InquiryPriceRunInstances`, `ResetInstance`, `RunInstances`.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable <a href="#">Cloud Monitor</a> service. Value range: <ul style="list-style-type: none"> <li>TRUE: Enable</li> <li>FALSE: Do not enable</li> </ul> Default: TRUE.

## RunSecurityServiceEnabled

Information on the Cloud Security service

Used by actions: InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description
Enabled	Boolean	No	Whether to enable <a href="#">Cloud Security</a> service. Value range: <ul style="list-style-type: none"> <li>TRUE: Enable</li> <li>FALSE: Do not enable</li> </ul> Default: TRUE.

## SharePermission

An array of information on image sharing

Used by actions: DescribeImageSharePermission.

Name	Type	Description
CreateTime	Timestamp	The time when the image is shared
Account	String	ID of the account to which the image is shared

## SpotMarketOptions

Spot-related options

Used by actions: InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
MaxPrice	String	Yes	Bid rate

Name	Type	Required	Description
SpotInstanceType	String	No	Spot request type. Only "one-time" is supported.

## StorageBlock

Information of local HDD storage

Used by actions: DescribeZoneInstanceConfigInfos, RunInstances.

Name	Type	Description
Type	String	Type of local HDD storage. Value: LOCAL_PRO.
MinSize	Integer	Minimum size of local HDD storage
MaxSize	Integer	Maximum size of local HDD storage

## SystemDisk

Information on the block device (the system disk) where the operating system is located

Used by actions: DescribeInstances, InquiryPriceResetInstance, InquiryPriceRunInstances, ResetInstance, RunInstances.

Name	Type	Required	Description
DiskType	String	No	Type of system disk. For information about the limits on system disk types, please see <a href="#">CVM Instance Configuration</a> . Value range: <ul style="list-style-type: none"> <li>LOCAL_BASIC: Local disk</li> <li>LOCAL_SSD: Local SSD disk</li> <li>CLOUD_BASIC: HDD cloud disk</li> <li>CLOUD_PREMIUM: Premium cloud storage</li> <li>CLOUD_SSD: SSD cloud disk</li> </ul> Default value: LOCAL_BASIC.
DiskId	String	No	System disk ID. Neither LOCAL_BASIC nor LOCAL_SSD comes with an ID. This parameter is not supported for now.
DiskSize	Integer	No	System disk size (in GB). Default is 50

## Tag

Tag key-value pair

Used by actions: InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
Key	String	Yes	Tag key
Value	String	Yes	Tag value

## TagSpecification

The tag pair bound to a CVM instance that is being created

Used by actions: InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
ResourceType	String	Yes	Type of resource bound to a tag. Only type "instance" is supported
Tags	Array of <a href="#">Tag</a>	Yes	List of tag pairs

## VirtualPrivateCloud

VPC-related information, including subnet, IP, etc.

Used by actions: DescribeInstances, InquiryPriceRunInstances, RunInstances.

Name	Type	Required	Description
VpcId	String	Yes	VPC ID, in the format of <code>vpc-xxx</code> . A valid VPC ID can be queried through the <a href="#">console</a> or obtained from the <code>unVpcId</code> field returned by the API <a href="#">DescribeVpcEx</a> .
SubnetId	String	Yes	VPC subnet ID, in the format of <code>subnet-xxx</code> . A valid VPC subnet ID can be queried through the <a href="#">console</a> or obtained from the <code>unSubnetId</code> field returned by the API <a href="#">DescribeSubnets</a> .

Name	Type	Required	Description
AsVpcGateway	Boolean	No	Whether used as a public gateway. The public gateway can be used only when the instance has a public IP and resides in a VPC. Value range: <ul style="list-style-type: none"><li>TRUE: Used as a public gateway</li><li>FALSE: Do not used as a public gateway</li></ul> Default: FALSE.
PrivateIpAddresses	Array of String	No	Array of VPC subnet IPs. This parameter can be used to create instances and modify VPC attributes for instances. Multiple IPs of a same subnet can be passed only when instances are created in batches.

## ZoneInfo

The information on an availability zone

Used by actions: DescribeZones.

Name	Type	Description
Zone	String	Availability zone name. For example, ap-guangzhou-3
ZoneName	String	Availability zone description. For example, Guangzhou Zone 3
ZoneId	String	Availability zone ID
ZoneState	String	Availability zone status