CDB for SQL Server

API Documents

Product Introduction

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API Documents
SQL Server API 2017
Intro

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Welcome to Tencent Cloud Database SQL Server. You can call the APIs discussed in this document to work with CDB for SQL Server. Before the use of these APIs, make sure you have a thorough understanding of the product as well as its usage and billing methods.

For the product documentation of SQL Server, please see SQL Server Product Documentation.

1. Glossary

Term	Full Name	Description
CDB	Cloud Database	High-performance distributed data storage service created based on the open source database MySQL.
SQL Server	CDB for SQL Server	SQL Server is a relational database developed by Microsoft featuring high scalability and performance as well as the capability to query, search, synchronize, report and analyze the data.
VPC	Virtual Private Cloud	Virtual Private Cloud enables you to build an independent network space on Tencent Cloud to customize IP address ranges, IP addresses, routing policies, etc. You can also establish a VPN tunnel through Internet/Direct Connect to interconnect VPC with your other cloud resources and deploy hybrid cloud flexibly.

2. API Quick Start

1. Backup and Recovery APIs

   API View Backup List is used to view backup list.

   API Create Backup is used to create a backup.

2. Instance Management APIs

   API Query Flow Status is used to query flow status.

API Overview

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1. Backup and Recovery APIs

Feature	Action ID	Description
View Backup List	ListBackup	View list and details of instances
Create Backup	CreateBackup	Create backup manually

2. Instance Management APIs

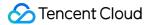| Feature	Action ID	Description
Query Flow Status	GetFlowStatus	View the flow status of asynchronous task

Update History

Last updated：2017-05-22 14:54:10

Date	Updates
Sep 9, 2016	API "ListBackup" became available
Nov 8, 2016	APIs "CreateBackup" and "GetFlowStatus" became available
Dec 06, 2016	Error code information was added

Call Method
Request Structure
Request Structure

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When you call a Tencent Cloud API, a request with corresponding parameters is sent to the server address of Tencent Cloud API. The Tencent Cloud API request structure consists of the following parts:

1. Service address

Tencent Cloud API service access address depends on specific modules. For details, see the description of each API.

2. Communication protocol

Most Tencent Cloud APIs use the HTTPS protocol to provide high-security communication channels.

3. Request mode

Tencent Cloud APIs support both POST and GET request modes.
**Note:

1. These two modes CAN NOT be used at the same time. That is, if you use the GET method, then all parameters are obtained from Querystring; if you use the POST method, all parameters are obtained from the Request Body and those parameters in Querystring will be ignored. Both request modes use the same format of parameters. GET is recommendedfor normal cases, and POST is recommended for parameters containing long strings.
2. For the GET request mode, URL encoding is required for all request parameter values; for POST, you do not need to encode the parameters.
3. The max length of GET requests varies for different browser and server settings. For example, the max length is 2k for IE, and 8k for Firefox. For API requests with lots of parameters, use POST to avoid request failures caused by over-limit strings

4. Request parameters

Each Tencent Cloud API request requires two types of parameters: public request parameters and API request parameters. The public request parameter is used by every API. For details, refer to the Common request parameters section; API request parameters are specific to each API. For details, see "Request parameters" for each API.

5. Character encoding

Tencent Cloud API requests and return results are encoded using the UTF-8 character set.

Public Request Parameters

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A complete Tencent Cloud API request requires two types of request parameters: common request parameter and API request parameter. This document will describe 6 common request parameters used in Tencent Cloud API requests. For more information about API request parameters, please see API Request Parameters.

Common request parameters are required in every API. When developers use Tencent Cloud APIs to send requests, they should make sure that the requests carry these common request parameters, otherwise the requests will fail. In order to differentiate from API request parameters, the initial letters of common request parameters are all capital letters.

Common request parameters are as follows:

> **Note:**
> The API examples in this document use Tencent Cloud CVM as example. For other Tencent Cloud products, refer to their instructions accordingly.

Parameter	Description	Type	Required
Action	API name of a specific operation. For example, when a Tencent Cloud CVM user calls the Query Instance List API, the Action parameter is DescribeInstances.	String	Yes
Region	Region parameter which is used to indicate the region of the instance to be operated in. For more information, please see the Regions and Availability Zones list, or use the Query Region List API. **Note:** 1. This parameter is required in normal conditions unless stated otherwise in the API description. 2. Some of the regions are under internal trial and are only available to certain users.	String	No
Timestamp	The current UNIX timestamp that records the time at which the API request was initiated.	UInt	Yes
Nonce	A random positive integer that is used in conjunction with Timestamp to prevent replay attacks.	UInt	Yes

Parameter	Description	Type	Required
SecretId	SecretId applied from Cloud API Key which is used for identification. Each SecretId corresponds to a unique SecretKey, while SecretKey is used to generate request Signature. For more information, please see Signature Method.	String	Yes
Signature	Request signature which is used to verify the validity of the current request. The signature must be calculated according to input parameters. For more information, please see Signature Method.	String	Yes
SignatureMethod	Signature method. Currently supported methods are HmacSHA256 and HmacSHA1. HmacSHA256 method is used only when the parameter is specified as HmacSHA256, otherwise HmacSHA1 is used to verify signatures. For more information, please see Signature Method.	String	No
Token	Token used for temporary certificate. The token must be used together with temporary key. A long-term key does not require a Token.	String	No

Example

The format of common request parameters in API request links for Tencent Cloud products are shown below. Take Tencent Cloud CVM as example, suppose a user needs to query the list of CVM instances in Guangzhou region, the request link should be:

```
https://cvm.api.qcloud.com/v2/index.php?
Action=DescribeInstances
&SecretId=xxxxxxx
&Region=ap-guangzhou
&Timestamp=1465055529
&Nonce=59485
&Signature=mysignature
&SignatureMethod=HmacSHA256
&<API request parameters>
```

API Request Parameters

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API request parameters depends on specific APIs. Different APIs support different API request parameters. The first letter of API request parameters is lowercase to distinguish them from public request parameters. We here use DescribeInstances as an example. It supports these API request parameters:
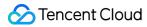
Parameter	Required	Type	Description
instanceIds.n	No	String	ID array of CVM instances to be queried (starting from 0). You can use instanceId and unInstanceId, and the uniform resource ID: unInstanceId is recommended.
lanIps.n	No	String	Private IP array of CVMs to be queried.
searchWord	No	String	User-defined CVM name.
offset	No	Int	Offset value, which defaults to 0.
limit	No	Int	The maximum number of CVM that can be queried at one time. The default is 20 and the maximum is 100.
status	No	Int	Status of the CVM to be queried.
projectId	No	String	Project ID. The CVM instances for all projects are queried if it is not specified. 0 indicates the default project. If you want to specify a different project, you can call the DescribeProject API to query.
simplify	No	Int	Obtains non-real time data. When simplify = 1 is specified, then non-real time data is obtained.
zoneId	No	Int	Availability zone ID. The CVM instances for all availability zones are queried if it is not specified. To specify an availability zone, you can call the DescribeAvailabilityZones API to query.

The fields are described as follows:

Parameter	Name of the request parameters supported by this API. You can use it as an API request parameter when using this API. Note: If the parameter name is ended with ".n", it indicates that this parameter is an array. Then you need to specify array parameters in sequence. For the DescribeInstances API, if you specify the parameter instanceIds.0=ins-

	0hm4gvho&instanceIds.1=ins-0hm4gvho, only the CVM instances with the IDs of ins-0hm4gvho and ins-0hm4gvho are queried.
Required	Indicates whether this parameter is required. "Yes" means that this parameter must be specified to call this API; "No" means that it may not be specified. In the DescribeInstances API, all API request parameters are not mandatory. You can call this API using common request parameters.
Type	Data type of this API parameter.
Description	Describes briefly the content of this API request parameter.

If you want to query the auto scaling group list, the request should be:

```
https://cvm.api.qcloud.com/v2/index.php?
&<Common request parameters>
&instanceIds.0=ins-0hm4gvho
&instanceIds.1=ins-8oby8q00
&offset=0
&limit=20
&status=2
&zoneId=100003
```

A complete request requires two types of request parameters: common request parameters and API request parameters. Only API request parameter are listed here. For more information about common request parameters, refer to Common request parameters.

Final Request Mode

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The final request URL consists of the following parts:

1) Request domain name: the domain name of the DescribeInstances request is cvm.api.qcloud.com. The actual request domain name varies with the module to which the API belongs. For details, refer to the description of each API.

2) Request path: The request path for the cloud API is "/v2/index.php".

3) Final request parameter strings: Includes both common request parameters and API request parameters.

The combination rule for final request parameter strings is:

> https:// + Request method + Request server + Request path + ? + Request string

Therefore, we get the following final request URL, where the first six parameters are common request parameters, the other six parameters are API request parameters.

```
https://cvm.api.qcloud.com/v2/index.php?
Action=DescribeInstances
&SecretId=xxxxxxx
&Region=gz
&Timestamp=1465055529
&Nonce=59485
&Signature=mysignature
&InstanceIds.0=ins-0hm4gvho
&InstanceIds.1=ins-8oby8q00
```

Backup and Restore API
View Backup List

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1. API Description

This API (ListBackup) is used to view backup list.
Domain for API request: sqlserver.api.qcloud.com

2. Input Parameters

The following request parameter list only provides API request parameters. Common request parameters are also needed when the API is called. For more information, please see Common Request Parameters. The Action field for this API is ListBackup.

Parameter Name	Required	Type	Description
resourceId	Yes	String	Instance ID
startTime	Yes	String	Start time (yyyy-MM-dd HH:mm:ss)
endTime	Yes	String	End time (yyyy-MM-dd HH:mm:ss)
pageSize	No	Int	Page size
pageNo	No	Int	Page number

3. Output Parameters

Parameter Name	Type	Description
code	Int	Common error code. 0: Successful; other values: Failed. For more information, please see Common Error Codes on the Error Codes page.
message	String	Module error message description depending on API.
data	Array	Returned data

Parameter data is composed as follows:

Parameter Name	Type	Description
totalCount	Int	Total number of backups
backupList	Array	Details of backup list

Parameter backupList is composed as follows:

Parameter Name	Type	Description
fileName	String	File name
size	Int	File size (in KB)
startTime	String	Start time of the backup
endTime	String	End time of the backup
internalAddr	String	Download address in the private network
externalAddr	String	Download address in the public network

4. Error Codes

Error Code	Error Message	Error Description
50	InstanceNotFound	Instance does not exist
1000	SystemError	System error. Contact customer service.
1002	DBConnectError	Database connection error
1005	CreateFlowFailed	Failed to create task flow

5. Example

Input

```
https://sqlserver.api.qcloud.com/v2/index.php?Action=ListBackup
```

```
&<Common request parameters>
&resourceId=mssql-q6g71pcf
&startTime=2016-09-27 00:00:00
&endTime=2016-09-28 00:00:00
&pageSize=10
&pageNo=0
```

Output

```
{
"code":"0",
"message":"",
"data":{
"backupList":[
{
"fileName":"backup_540316.tar",
"size":"1440",
"startTime":"2016-09-27 02:03:15",
"endTime":"2016-09-27 02:21:45",
"internalAddr":"http://10.66.185.141:58366/download/backup_540316.tar?YJW3gzNLKt2LCrywP9JslJXZ
o6TXiqprJ6x+tRJfDqzPsYYttIeozrDQeh2yfY/Dq/8OltqtK/+Bg3+plnNy5TzRhaYuCh+DpYehlAXVPBHPA
RU+zHUfxGkimTw+RxB5BBmgF/TTvwQXHfyjCr2DnQ==",
"externalAddr":"http://119.29.47.51:9097/download/backup_540316.tar?YJW3gzNLKt2LCrywP9JslJXZo
6TXiqprJ6x+tRJfDqzPsYYttIeozrDQeh2yfY/Dq/8OltqtK/+Bg3+plnNy5TzRhaYuCh+DpYehlAXVPBHPAR
U+zHUfxGkimTw+RxB5BBmgF/TTvwQXHfyjCr2DnQ=="
}
],
"totalCount":"1"
}
}
```