

TencentDB for MySQL



Tencent Cloud

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:

TencentDB for MySQL

MySQL

MyISAM InnoDB

TencentDB for MySQL VPC

TencentDB for MySQL

2 3

/ TencentDB for MySQL

DTS InnoDB RocksDB

LAMP

Drupal

Python MySQL API

TencentDB for MySQL

:: 2024-07-25 16:38:48

- TencentDB for MySQL

TencentDB for MySQL

- TencentDB for MySQL

SQL

- TencentDB for MySQL

TencentDB for MySQL super, shutdown, file

 TencentDB for MySQL set

```
#1227-Access denied; you need(at least one of)the SUPER privilege (s)
for this operation
```

: set

,

[

]>[

]

• DML(SELECT, UPDATE, INSERT, DELETE)

•

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•

IP IP

,

•

IP

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•

CVM

MySQL

VPC

•

binlog

,

MySQL

TencentDB

for MySQL

3.4 mysqlbinlog
CVM / url
404

online ddl pt-online
-schema-change

begin
TencentDB for MySQL (5
). , DB DB
_bak'

DB

TencentDB for MySQL 5.6 MyISAM Memory . Memory
TencentDB for Redis Memcached .
TencentDB for MySQL MyISAM InnoDB .
, 1
row_format .
. MySQL 1 InnoDB
binlog_format row
/ .
NOT NULL . NULL SQL
. NULL IS NULL IS NOT NULL

utf8mb4
utf8mb4
, TencentDB for MySQL
utf8mb4

• decimal . float double .
• decimal .
• , , , , ,
• text/blob .

, , , , , event,

definer . definer

80% ()

- 5 , 5
- SQL , cardinality
- SQL , cardinality
- cardinality 10% (:).
- varchar ,
varchar
- , count(distinct left(,))/count(*)
- (a,b) (a) , (a)
redundant index a , (a,b) (a)
- IO . InnoDB 2
- SQL , (flashback table)
- IO ,
, select a,b from xxx where a = xxx a a, b

SQL

- UPDATE, DELETE LIMIT , WHERE . LIMIT
- INSERT INTO t_xxx VALUES (xxx)
- SQL
- a varchar , SQL where a = 1; varchar int
- ,
- join
- (a,b) SQL order by a b desclike

• `xx%`

• `(not, !=, not in)`

• `select *`

○ `I/O`

○ `innodb_buffer_pool_size`

○ `/`

• `join , join , join`

• `join`

• `LIMIT . LIMIT 80000, 10 80010 10`

• `: SELECT * FROM test WHERE id >= (SELECT sql_no_cache id FROM test ORDER BY id LIMIT 80000,1) LIMIT 10 ;`

• `SQL . MySQL 5.5 in exists`

! :

• `log_que`

• `ries_not_using_indexes , ,`

• `SQL ,`

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TencentDB for MySQL

hang

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TencentDB for MySQL

, connectTimeOut socketTimeOut

. OLTP(On-Line Transaction Processing)

20



:

● connectTimeOut:

TCP

● socketTimeOut: TCP

SQL

MySQL

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TencentDB for MySQL

lower_case_table_names

```
:0
**: ** , ,
0,1 0 .0
,1 .
**: ** , ,
, ( : 2 ,
Test, TEst),
TEst
```

auto_increment_increment

```
:1
: AUTO_INCREMENT 1~65535 ,
1 .
:
binlog_format statement ,
, /
```

auto_increment_offset

```
:1
: AUTO_INCREMENT ( ) 1~65535 ,
1 .
:
/ Auto Increment , /
```

sql_mode

: NO_ENGINE_SUBSTITUTION

: MySQL sql mode , sql mysql sql ,

5.6 NO_ENGINE_SUBSTITUTION

, Uncompiled . 5.7

ONLY_FULL_GROUP_BY , STRICT_TRANS_TABLES , NO_ZERO_IN_DATE , NO_ZERO_DATE

E ,

ERROR_FOR_DIVISION_BY_ZERO , NO_AUTO_CREATE_USER , NO_ENGINE_SUBSTITUTION

,

- ONLY_FULL_GROUP_BY GROUP BY SELECT , HAVING ORDER BY ,
- GROUP BY GROUP BY

STRICT_TRANS_TABLES Strict mode

NO_ZERO_IN_DATE , 0 , Strict mode

NO_ZERO_DATE 0 , Strict mode

NO_ZERO_DATE 0 , Strict mode

INSERT UPDATE 0 MySQL NULL

NO_AUTO_CREATE_USER GRANT

NO_ENGINE_SUBSTITUTION Uncompiled

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sql mode ,

sql mode sql mode ,

SQL /

MyISAM InnoDB

:: 2024-07-25 16:38:48

MyISAM InnoDB

TencentDB for MySQL InnoDB , MySQL 5.6

MyISAM Memory

TencentDB for MySQL 5.6

MyISAM InnoDB

MyISAM Auto Increment Compound Primary Key

InnoDB

MyISAM InnoDB

. ERROR 1075 (42000) : Incorrect table definition; there can be only one aut
o column and it must be defined as a key

Auto Increment InnoDB Auto Increment Compound Primary
Key

InnoDB Auto Increment Compound Primary Key

1. SQL :

```
create table t_complexkey
(
  id int(8) AUTO_INCREMENT,
  name varchar(19),
  value varchar(10),
  primary key (name,id),
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
```

:

```
Database changed
MySQL [1]> create table t_complexkey
-> (
->   id int(8) AUTO_INCREMENT,
->   name varchar(19),
->   value varchar(10),
->   primary key (name,id)
-> ) ENGINE=MyISAM DEFAULT CHARSET=utf8:
ERROR 1075 (42000): Incorrect table definition; there can be only one auto column and it must be defined as a key
```

2. SQL :

```
create table t_complexkey
(
  id int(8) AUTO_INCREMENT,
  name varchar(19),
  value varchar(10),
  primary key (name,id),
  key key_id (id)  ## ?? ?? ?? ?? ?? ?? ?? ??
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
```

2

```
MySQL [ ] > create table t_complexkey
  -> (
  ->     id int(8) AUTO_INCREMENT,
  ->     name varchar(19),
  ->     value varchar(10),
  ->     primary key (name,id),
  ->     key key_id (id)
  -> ) ENGINE=MyISAM DEFAULT CHARSET=utf8;
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

3.

1

```
show create table t_complexkey;
```

```
mysql [huawu]> show create table t_complexkey;
+-----+-----+
| Table | Create Table |
+-----+-----+
| t_complexkey | CREATE TABLE `t_complexkey` (
  `id` int(8) NOT NULL AUTO_INCREMENT,
  `name` varchar(19) NOT NULL,
  `value` varchar(10) DEFAULT NULL,
  PRIMARY KEY (`name`,`id`),
  KEY `key_id` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8 |
+-----+-----+
1 row in set (0.00 sec)
```

TencentDB for MySQL

VPC

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Tencent Cloud (CDB) : Tencent Cloud VPC **VPC**
. VPC Tencent Cloud (: Tencent Cloud CDB).
VPC VPC CDB
VPC , CDB VPC .
VPC CVM TencentDB for MySQL , VPC

1 : VPC

VPC 1 ,
1. **VPC**
2. VPC +New
3. VPC . VPC CIDR

VPC CIDR IP 1 . VPC PC/
CIDR
 10.0.0.0 10.255.255.255 (1628)
 172.16.0.0 172.31.255.255 (1628)
 192.168.0.0 192.168.255.255 (1628)
 CIDR VPC CIDR
VPC IP 192.168.0.0/16 , VPC IP 192.168.0.
0/16 、 192.168.0.0/17 .

Create a VPC

VPC information

Region: East China(Nanjing)

Name:

IPv4 CIDR Block: 10 . 0 . 0 . 0 / 16 Cannot be modified after creation

For better usage of VPC, it's recommended to have a proper network structure.

[Advanced Options](#)

Original subnet information

Subnet Name:

IPv4 CIDR Block: 10 . 0 . 0 . 0 / 16

Availability Zone: Nanjing Zone 1 ①

Associated route table: Default ①

[Advanced Options](#)

OK **Close**

2 :

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1. [VPC](#)

2.

3. [VPC](#) [+New](#)

4. , CIDR, ,

Create a Subnet

Subnet Name	VPC IP Range	CIDR	Availability Zone	Associated route table	Operation
Enter the subnet name	0/60	10.206.0.0/16	16	Nanjing Zone 1	default
+ Add a line					

Advanced Options ▶

[Create](#) [Cancel](#)

5. () [+]

6.

3 :

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1. VPC

2. VPC [+New](#)

3. ,

Create a route table

Destination	Next hop type	Next hop	Notes	Operation
Local	LOCAL	Local	Delivered by default; indicates tha...	-
<input type="text"/>	Public IP of CVM	Public IP of CVM	<input type="text"/> X	
+ Add a line				

[Create](#) [Close](#)

4. []

4 : CVM

1. [VPC](#)

2.

3. CVM CVM

Subnet											Help of Subnet
East China (Nanjing) All VPCs											
+ New Filter											Separate keywords with " "; press Enter to separate
ID/Name	Network	CIDR	IPv6 CIDR	Availability Z...	Associated ro...	CVM	Available IP	Creation Time	Default Subnet	Operation	
			-	Nanjing Zone 1			4092	2020-01-03 10:31:10	Yes	Delete Change route table	

4. CVM CVM

5 : CDB

1. [TencentDB for MySQL](#)

[New](#)

2.

CDB

Network	Default-VPC(default)	Default-Subnet(de...	4093 subnet IPs in total, with 4089 available
To change the network, please go to the console Create VPC or Create Subnet . After the cloud database is purchased, the private network/subnet can be switched through the console.			

1.

Operation Manage

2.

VPC

TencentDB for MySQL

:: 2024-07-25 16:38:48

TencentDB for MySQL

QPS

1.

1.1

TencentDB for MySQL

v5.5, v5.6, v5.7 v8.0

MySQL

v5.5

v5.6

MySQL v5.7

JSON

MySQL v5.7 MySQL

JSON

MySQL v5.7 : JSON JSON , , JSON

MySQL v5.7 : JSON JSON

MySQL v5.7 : query JSON , ,

MySQL v5.7 : JSON features SQL
MySQL v5.7 . feature JSON

```
SELECT feature->("$.properties.STREET" AS property_street FROM
features WHERE id = 121254;
```

MySQL 5.7

SYS Schema

MySQL SYS Schema , , , ,
database schema . Performance Schema INFORMATION_SCHEMA
DBA

MySQL SYS Schema MySQL 5.7

FAQ

?

CVM

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● InnoDB

● InnoDB(Online DDL)

: MySQL

Buffer Pool size

. InnoDB

UNDO

(ibdata1)

MySQL v5.7

varchar

● InnoDB

: MySQL v5.7 InnoDB

90%

● InnoDB

: MySQL

InnoDB

25%

MySQL

MySQL 5.7

MySQL

1.2

TencentDB for MySQL

CPU

CPU

Sysbench

TencentDB for MySQL

IO

1.3

TencentDB for MySQL

, , binlog

1.4

TencentDB for MySQL

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1.5 TencentDB

TencentDB for MySQL

binlog

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1.6 TencentDB

TencentDB for MySQL

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1.7 CVM TencentDB for MySQL

CVM TencentDB for MySQL

MySQL

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4:1 10:1

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TencentDB for MySQL

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3. TencentDB

TencentDB for MySQL

Tencent Cloud

MySQL

4. 2 3

TencentDB for MySQL

2 3

• TencentDB for MySQL

1 2

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• 2 3

5.

M-S()

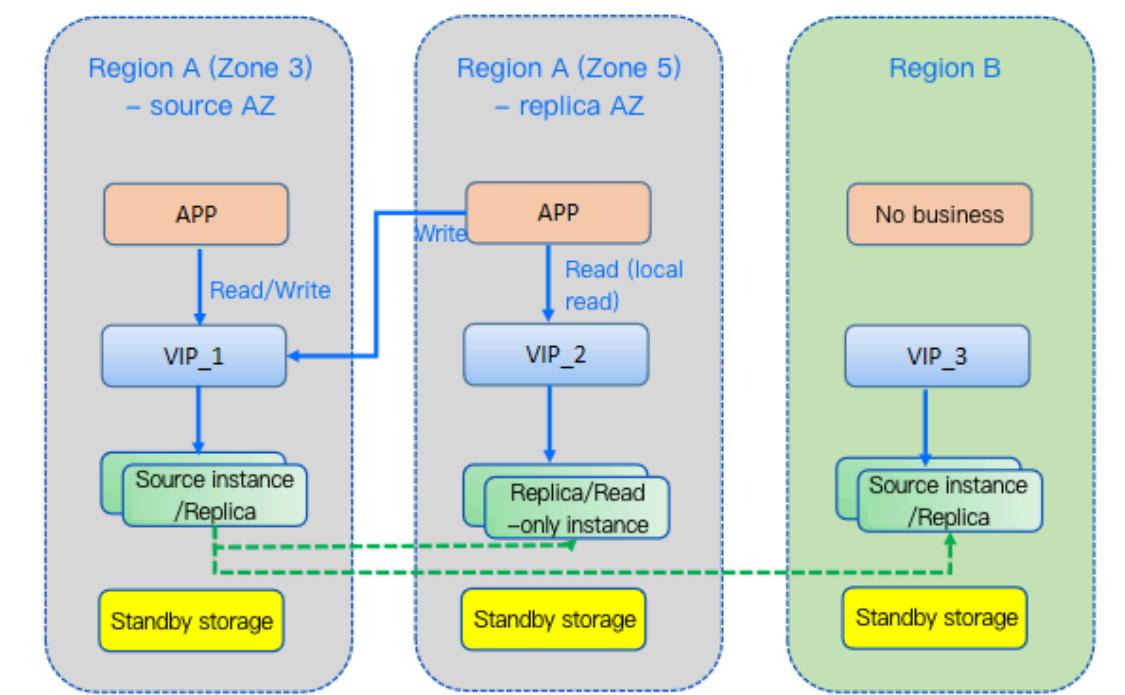
2 3

:: 2025-11-24 20:51:16

(AZ)

2 3

2 3



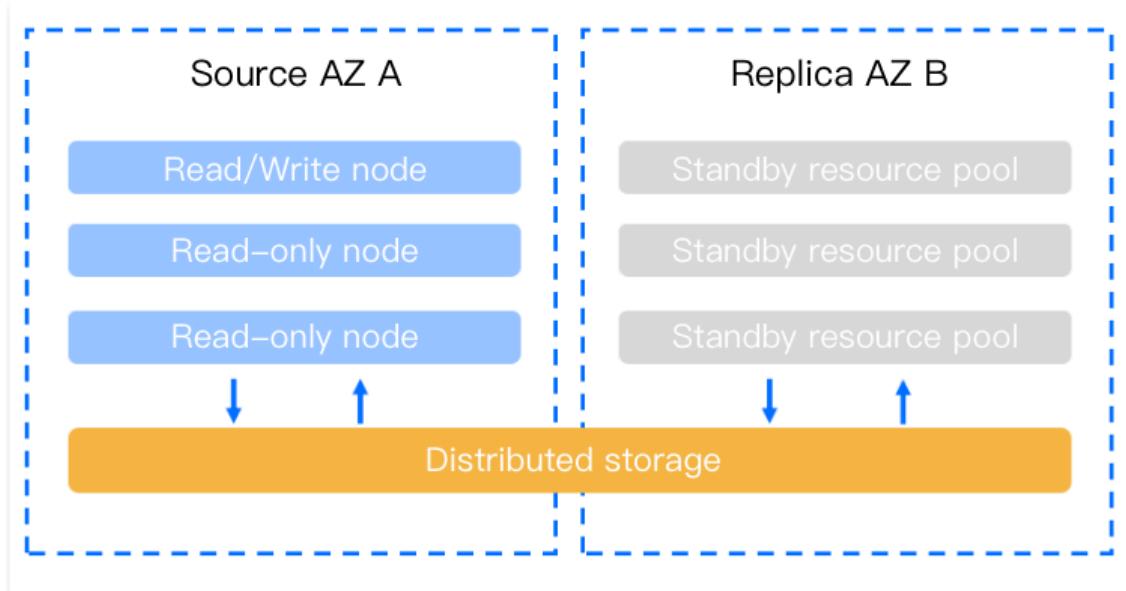
• 1 2 :
A 3 5 1 2 . 3 5

• :
A B . A 3, 5
B .

AZ

TencentDB for MySQL AZ . AZ , AZ IDC AZ

TencentDB for MySQL AZ AZ



2 AZ

AZ

AZ TencentDB for MySQL

AZ

AZ

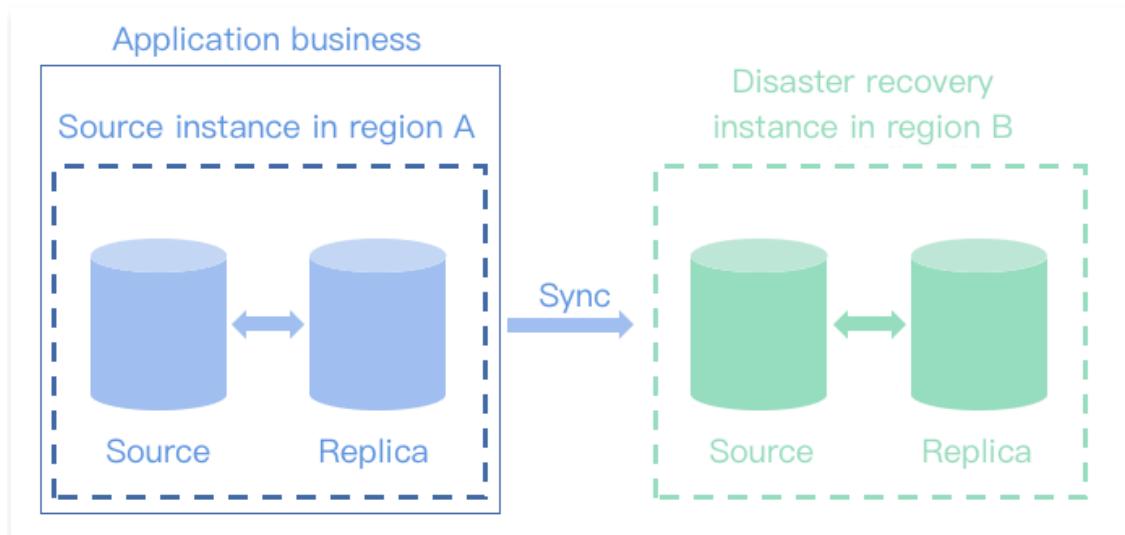
A7

AZ

TencentDB for

MySQL

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2 3

1 : AZ

AZ

1. TencentDB for MySQL

2. AZ AZ AZ



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AZ

2~3ms

Source AZ

Beijing Zone 1 Beijing Zone 2 Beijing Zone 3 Beijing Zone 4 Beijing Zone 5 Beijing Zone 6 Beijing Zone 7

Products in the same VPC but different AZs can communicate with each other via private network. For example, in the same VPC, the CVM in Guangzhou Zone 2 can access the MySQL instance in Guangzhou Zone 3 via private network.

Replica AZ

Beijing Zone 1 Beijing Zone 2

The source and replica are in different AZs, which may increase the network sync delay of 2-3 ms.

3.

>

AZ

AZ

1. TencentDB for MySQL

2.

ID

3.

>

AZ

Availability Info Source/Replica SwitchData Replication Mode **Async** [Modify Replication Mode](#)Deployment Mode **Multi-AZ** [Modify Replica AZ](#)

4.

AZ

AZ

Instance ID

Instance Name

Private Network Address

Network

Architecture **Two-Node**Original Region/AZ **North China region(Beijing)/Beijing Zone 6**

New AZ

Beijing Zone 6Multi-AZ Deployment [①](#)**Yes**

No

Database Type

AZ

Replica

Beijing Zone 5**Submit**

Cancel

2

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5.6

GTID

1GB

50GB

InnoDB

MySQL

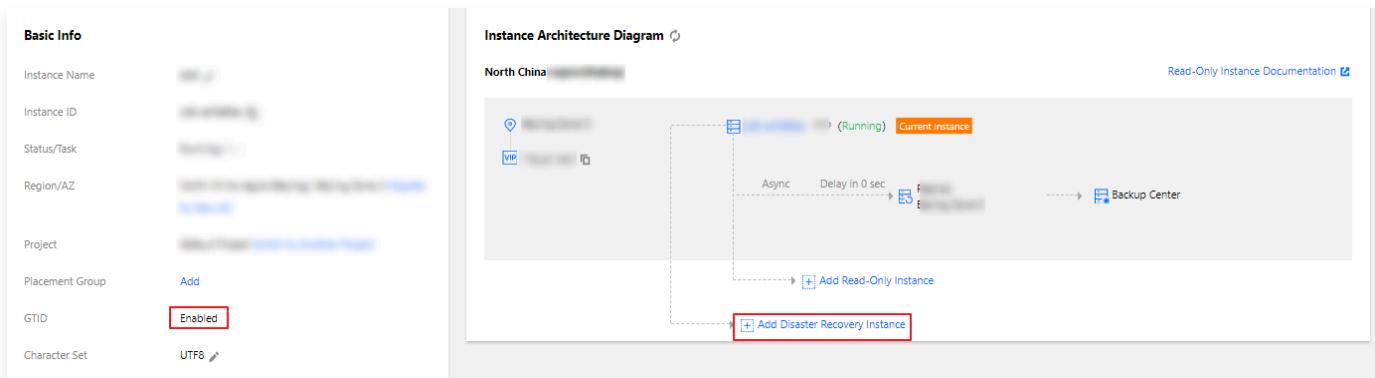
2.1

1. TencentDB for MySQL

ID

2.

GTID



Basic Info

Instance Name: [REDACTED]

Instance ID: [REDACTED]

Status/Task: [REDACTED]

Region/AZ: [REDACTED]

Project: [REDACTED]

Placement Group: [Add](#)

GTID: **Enabled**

Character Set: UTF8

Instance Architecture Diagram

North China [REDACTED]

Read-Only Instance Documentation

Current instance (Running)

Backup Center

Async

Delay in 0 sec

Add Read-Only Instance

Add Disaster Recovery Instance

3.



4.

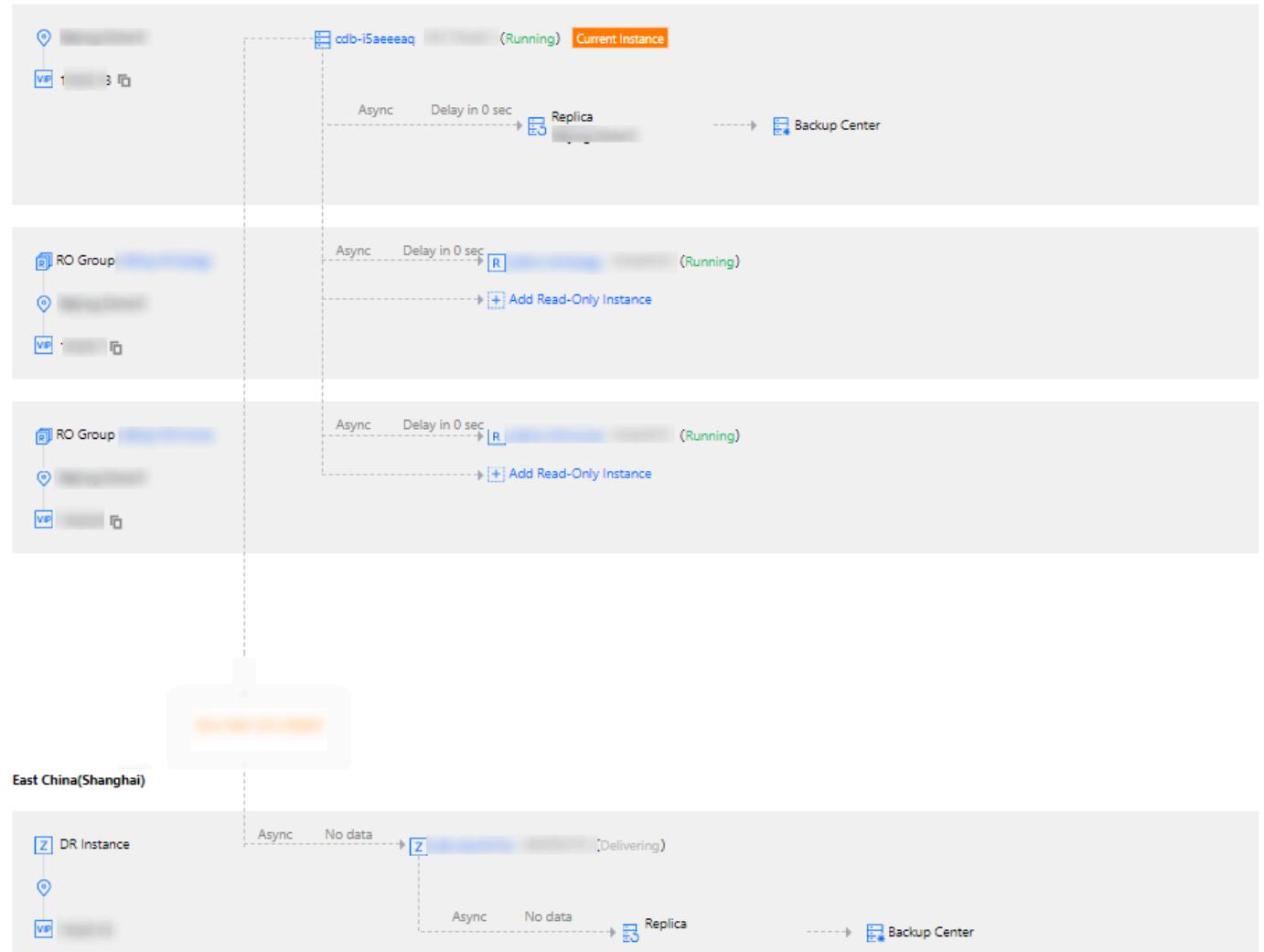
5.

2 3

2 3

Instance Architecture Diagram

North China region(Beijing)

[Read-Only Instance Documentation](#)

/

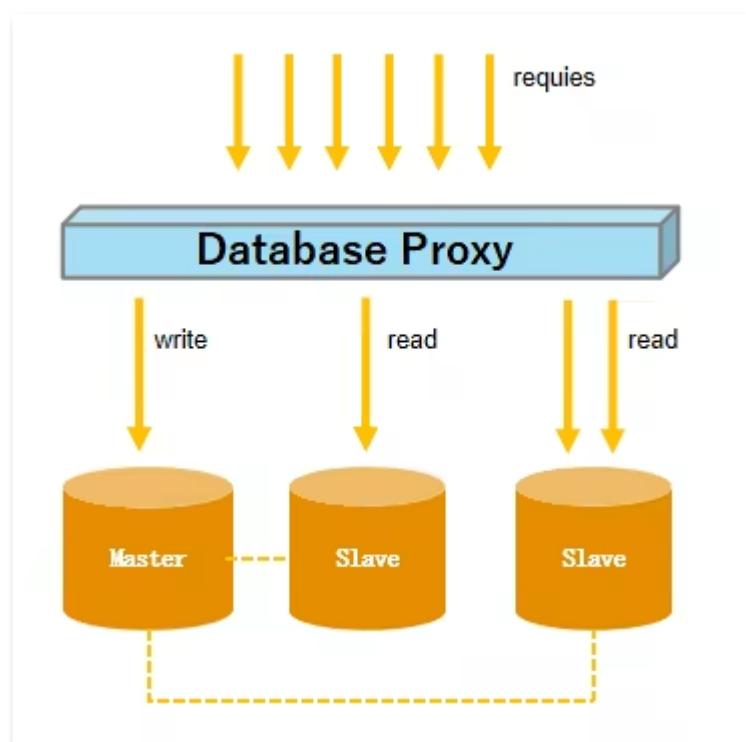
TencentDB for MySQL

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TencentDB for MySQL

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TencentDB

TencentDB

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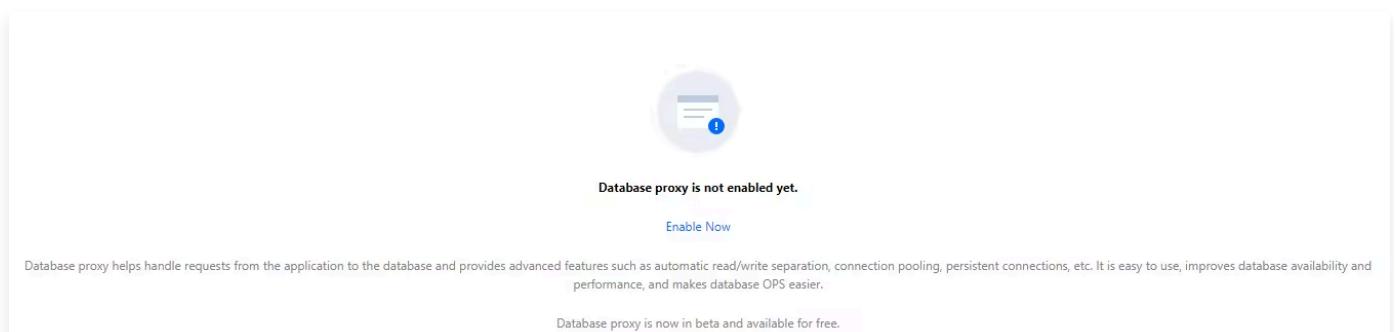
,

1 :

1. TencentDB for MySQL

, ID

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3.

Enable Database Proxy

Database proxy is free-of-charge in beta, after which a commercial version will be released.

Network [Default-VPC - Default-Subnet](#)

Proxy [2-core 4000 MB memory](#)

Specification

Node Quantity pcs (1 to 4)

To ensure the high availability of proxy, please purchase at least two proxy nodes.
It's recommended to set the number of proxy nodes to 1/8 (rounded up to the nearest integer) of the sum of the CPU cores per node of the source instance and the CPU cores of all its read-only instances. For example, if the source instance uses 4 CPU cores per node and its read-only instances use 8 CPU cores in total, then the recommended number of proxy nodes is $(4+8)/8 \approx 2$.
If the recommended number of proxy nodes you calculated exceeds the maximum purchasable quantity, please choose a higher proxy node specification.

Security Group [Open all ports-2019092316102349843](#)

Selected 1 item

[Open all ports-2019092316102349843](#)

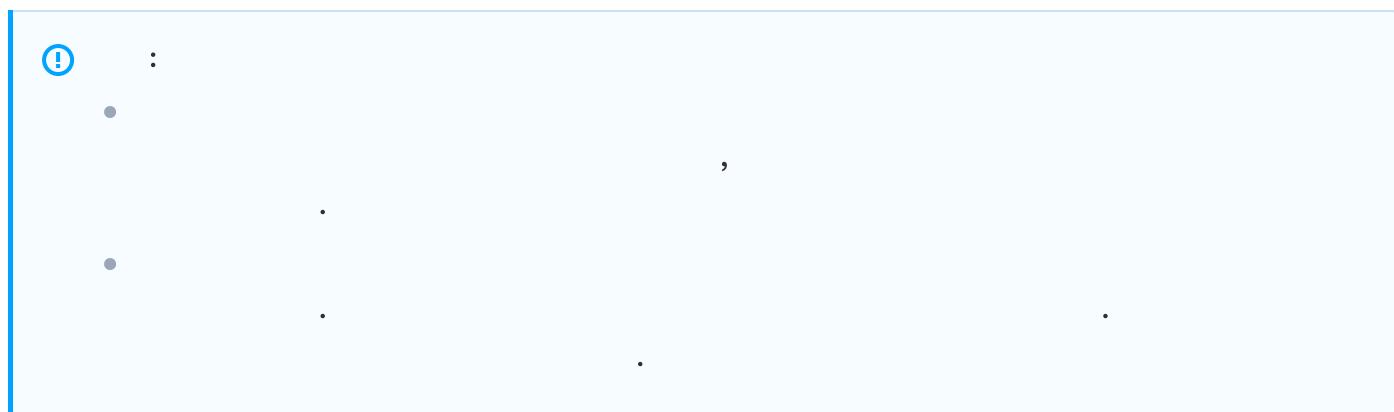
Preview Rules [Instruction](#)

To access through the database proxy, you need to configure security group policies and open the private port (3306). For more information, see [MySQL Security Groups](#)

Remarks

[OK](#) [Cancel](#)

4.



Overview Read/Write Separation Performance Monitoring

Adjust Configurations Disable Database Proxy

Basic Info

Status/Task: Running

Region/AZ: ██████████

Proxy Version: 1.0.1 [Upgrade Kernel Minor Version](#)

Node Quantity: 2

Read/Write Separation: Enable

Connection Pool: To use this feature, you need to upgrade both the proxy and the source instance kernel to the latest version.

Proxy Node

Rebalance ⓘ

Node ID	Connections	Specification	Status
prc-██████████	2	2-core 4000 MB memory	Running
prc-██████████	2	2-core 4000 MB memory	Running

Connection Address

Database Proxy Address	Network	Remarks
██████████	██████████	██████████

2 : /

1. MySQL

2. ID

3. /

Instance Details Instance Monitoring Database Management Security Group Backup and Restoration Operation Log Read-Only Instance **Database Proxy**

Overview **Read/Write Separation** Performance Monitoring

Read/write separation is not enabled yet.

[Enable Now](#)

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Configure Read/Write Separation

X

Remove Delayed RO [Learn More](#)

Instances

Note that this setting only applies to delayed RO instances. Failed RO instances are always removed directly and added back after they're recovered.

Delay Threshold sec

An integer ≥ 1

Least RO Instances

Assign Read Weight Assigned by system Custom

Instance ID/Name	Type	Weight	Status
...	Source Instance	1(auto-assigned)	Running
...	Read-Only Instance	1(auto-assigned)	Running
...	Read-Only Instance	Read-only instances with delayed replication enabled are not supported.	Running

Failover

If database proxy fails, the database proxy address will route requests to the source instance.

Apply to Newly Added

RO Instances

OK

Cancel

Overview **Read/Write Separation** Performance Monitoring

Adjust Configurations Disable Read/Write Separation

Basic Info (Click "Adjust Configurations" in the upper right corner to edit configurations)

Remove Delayed RO Instances: Enabled

Delay Threshold: 10 seconds

Least RO Instances: 1

Failover: Disabled

Apply to Newly Added RO Instances: Disabled

Assign Read Weight: Assigned by system

Instance	Type	Weight
ID/Name	Read-Only Instance	1
	Source Instance	1

Read/Write Separation Architecture Diagram 

[\[+\] Add Read-Only Instance](#)

DTS

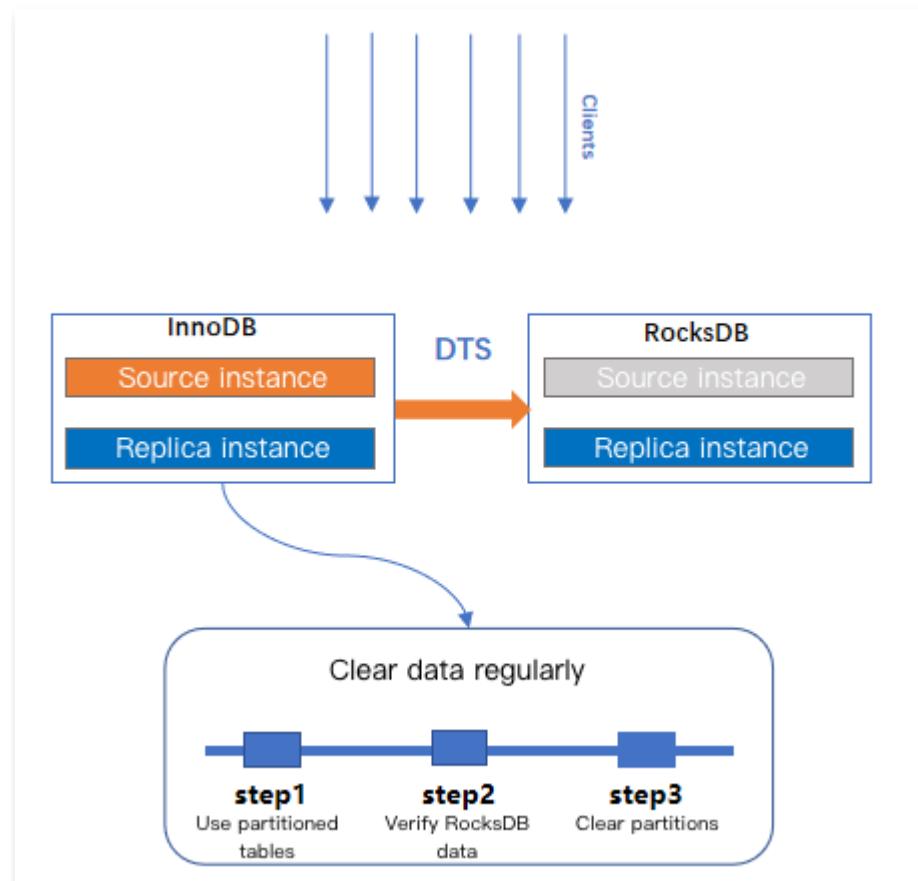
InnoDB

RocksDB

:: 2024-07-25 16:38:48

TXRocks	KV(key-value)	RocksDB	Tencent	TXSQL
InnoDB	B+Tree	TXRocks	LSM Tree	
. InnoDB	B+Tree	half-full	,	
InnoDB		. TXRocks SST		MB
. .	TXRocks 4K		. SST	Block
Block		TXRocks SST		
			SST	
			50%	

InnoDB DTS RocksDB



:

DTS(Data Transmission Service)

TencentDB

1. DTS

2.

3.

! :

DB

1 Set source and target databases > 2 Set migration options and select migration objects > 3 Verify task

Task Configuration

Task Name * DT: [redacted]

Running Mode * Immediate execution Scheduled execution

Source Database Settings

Source Database Type * MySQL

Service Provider * Others AWS Alibaba Cloud

Access Type * Public Network Self-Build on CVM Direct Connect VPN Access Database CCN Intranet Access Type Description [Edit](#)

Cross-/Intra-Account * Intra-account Cross-account

Region North China region(Beijing)

Database Instance * [redacted] [Edit](#)

Account * [redacted]

Password * [redacted]

[Test Connectivity](#)

Target Database Settings

Target Database Type * MySQL

Region North China (Beijing)

Access Type * Database

Database Instance * [redacted] [Edit](#)

Account * [redacted]

Password * [redacted]

[Test Connectivity](#)

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Online DDL

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Online DDL

```
•          rename ( : table A  table B  rename)  
table A          table A          (
```

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Task ID / Name	Task Status / Progress	Running...	Specification	Billing Mode	Last Check Result	Source ...	Target Dat...	Source Ac...	Address	Creation Time	Operation
NewDTS	(3 / 3)   binlog_sinker	Immediate execution		Pay as you go 	 	MySQL	MySQL	Database	Sources:  Targets: 	2023-09-11 10:45:23	Immediate start Done   Verify  More 

7.

InnoDB

RocksDB

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LAMP

:: 2024-07-25 16:38:48

LAMP Linux+Apache+Mysql/MariaDB+Perl/PHP/Python

Tencent CVM 1 LAMP

Tencent CDB

! :
CDB CVM CDB
CVM ,

CDB

CDB MySQL

CVM

CVM Linux CVM CentOS

MySQL

1. CVM yum MySQL

```
yum install mysql -y
```

```
[root@VM_165_193_centos_html]# yum install mysql -y
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
Resolving Dependencies
--> Running transaction check
--> Package mariadb.x86_64 1:5.5.52-1.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
| Package           | Arch | Version | Repository |
| ====== | ===== | ====== | ====== |
| Installing:      |       |          |           |
| mariadb          | x86_64 | 1:5.5.52-1.el7 | os          |
|                   |       |          |             |
Transaction Summary
=====
| Install 1 Package |
Total download size: 8.7 M
Installed size: 48 M
Downloading packages:
mariadb-5.5.52-1.el7.x86_64.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:mariadb-5.5.52-1.el7.x86_64
  Verifying  : 1:mariadb-5.5.52-1.el7.x86_64

Installed:
  mariadb.x86_64 1:5.5.52-1.el7

Complete!
```

2. Tencent CDB

```
mysql -h hostname -u username -p
```

```
[root@VM_165_193_centos_html]# mysql -h : -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 19768
Server version: 5.6.28-cdb2016-log 20170228

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]>
```

, hostname

IP

, username

3.

```
quit;
```

Apache

1. CVM

yum

Apache

```
yum install httpd -y
```

```
[root@VM_193_centos html]# yum install httpd -y
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.6-45.el7.centos.4 will be installed
--> Finished Dependency Resolution

Dependencies Resolved
```

```
=====
 Package           Arch         Version
 =====
 Installing:
 httpd            x86_64      2.4.6-45.el7.centos.4
```

```
Transaction Summary
=====
```

```
Install 1 Package
```

```
Total download size: 2.7 M
```

```
Installed size: 9.4 M
```

```
Downloading packages:
```

```
httpd-2.4.6-45.el7.centos.4.x86_64.rpm
```

```
Running transaction check
```

```
Running transaction test
```

```
Transaction test succeeded
```

```
Running transaction
```

```
  Installing : httpd-2.4.6-45.el7.centos.4.x86_64
```

```
  Verifying  : httpd-2.4.6-45.el7.centos.4.x86_64
```

```
Installed:
```

```
  httpd.x86_64 0:2.4.6-45.el7.centos.4
```

```
Complete!
```

2. Apache

```
service httpd start
```

3. Apache



:

CVM

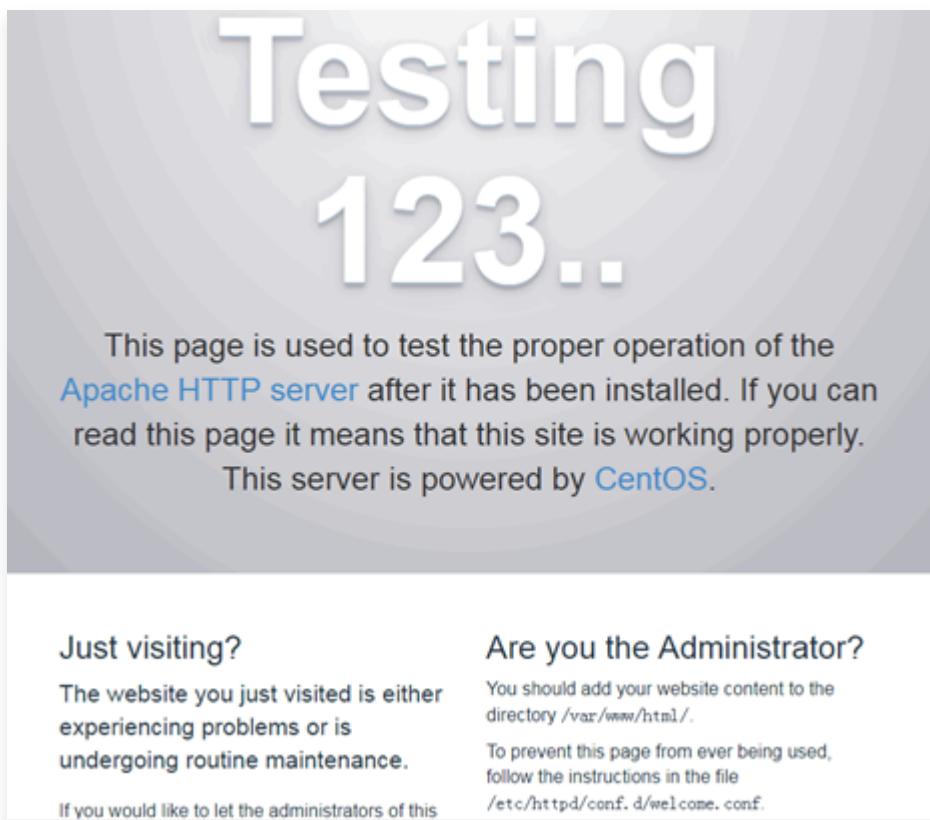
all

TCP:80

Inbound rule

Security Group

http://xxx.xxxx.xxxx.xxxx/ (, xxx.xxxx.xxxx.xxxx)
CVM IP), Apache .



PHP

1. CVM

yum

PHP

```
yum install php -y
```

```
[root@VM_165_193_centos html]# yum install php -y
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
Resolving Dependencies
--> Running transaction check
--> Package php.x86_64 0:5.4.16-42.el7 will be installed
--> Processing Dependency: php-common(x86-64) = 5.4.16-42.el7 for p
--> Processing Dependency: php-cli(x86-64) = 5.4.16-42.el7 for pack
--> Running transaction check
--> Package php-cli.x86_64 0:5.4.16-42.el7 will be installed
--> Package php-common.x86_64 0:5.4.16-42.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version
=====
Installing:
  php              x86_64    5.4.16
Installing for dependencies:
  php-cli          x86_64    5.4.16
  php-common       x86_64    5.4.16

Transaction Summary
=====
Install 1 Package (+2 Dependent packages)

Total download size: 4.6 M
Installed size: 17 M
Downloading packages:
(1/3): php-5.4.16-42.el7.x86_64.rpm
(2/3): php-common-5.4.16-42.el7.x86_64.rpm
(3/3): php-cli-5.4.16-42.el7.x86_64.rpm
-----
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
```

LAMP

1. , CVM /var/www/html 1 info.php .

```
<?php phpinfo(); ?>
```

2. Apache .

```
service httpd restart
```

3. http://xxx.xxx.xxx.xxx/info.php (, xxx.xxx.xxx.xx .
x CVM IP), LAMP .

PHP Version 5.4.16



System	Linux VM_165_193_centos 3.10.0-327.36.3.el7.x86_64 #1 SMP Mon Oct 24 16:09:20 UTC 2016 x86_64
Build Date	Nov 6 2016 00:30:05
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/curl.ini, /etc/php.d/fileinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysql.ini, /etc/php.d/mysqli.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysql.ini, /etc/php.d/pdo_sqlite.ini, /etc/php.d/phar.ini, /etc/php.d/sqlite3.ini, /etc/php.d/zip.ini
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend	API200100525 NTC

Drupal

:: 2024-07-25 16:38:48

Drupal PHP
(Content Management System) PHP
(Content Management Framework) ,
(Framework) . Drupal

CVM Drupal
: CentOS7.2, Drupal7.56, PHP5.4.16.

CVM

CVM Linux CVM

MariaDB

1. MariaDB CentOS v7 MariaDB . yum
CVM MariaDB

```
yum install mariadb-server mariadb -y
```

2. MariaDB

```
systemctl start mariadb
```

3. Drupal (: drupal)

```
mysqladmin -u root -p create drupal
```

drupal Drupal

4.

```
mysql -u root -p
```

```
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, INDEX, ALTER,  
CREATE TEMPORARY TABLES, LOCK TABLES ON drupal.* TO  
'username'@'localhost' IDENTIFIED BY 'password';
```

```
FLUSH PRIVILEGES;  
exit
```

username Drupal , password Drupal

Apache

1. CVM yum Apache

```
yum install httpd -y
```

2. Apache

```
service httpd start
```

3. Apache

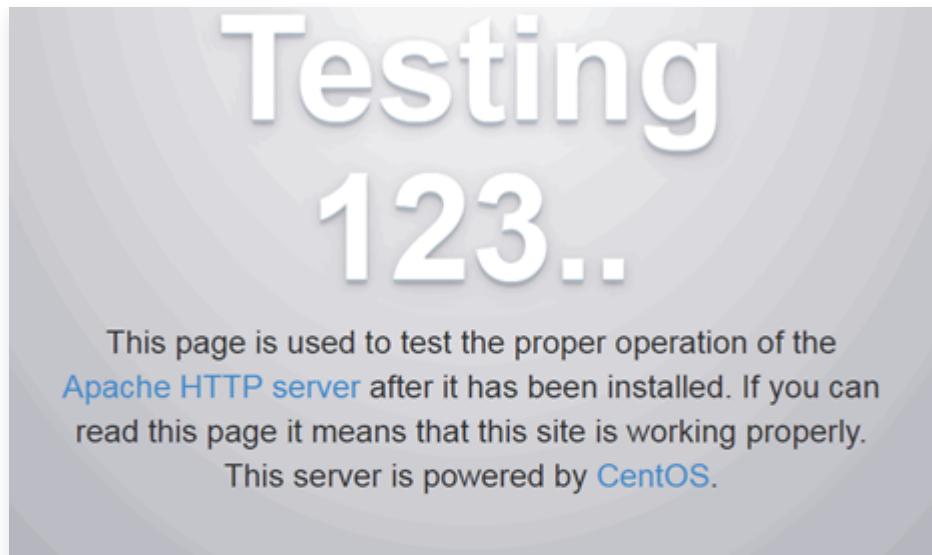


CVM

all

TCP:80

http://115.xxx.xxx.xxx/ (115.xxx.xxx.xxx CVM
IP). Apache



Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this

Are you the Administrator?

You should add your website content to the directory `/var/www/html/`.

To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

PHP

1. `yum` CVM PHP

```
yum install php php-dom php-gd php-mysql php-pdo -y
```

2. , CVM `/var/www/html` info.php PHP

```
<?php phpinfo(); ?>
```

3. Apache

```
service httpd restart
```

4. `http://115.xxx.xxx.xxx/info.php` (115.xxx.xxx.xx CVM IP). PHP

PHP Version 5.4.16



System	Linux VM_165_193_centos 3.10.0-327.36.3.el7.x86_64 #1 SMP Mon Oct 24 16:09:20 UTC 2016 x86_64
Build Date	Nov 6 2016 00:30:05
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/curl.ini, /etc/php.d/fileinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysql.ini, /etc/php.d/mysqli.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysql.ini, /etc/php.d/pdo_sqlite.ini, /etc/php.d/phar.ini, /etc/php.d/sqlite3.ini, /etc/php.d/zip.ini
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend	API20100525 NTC

Drupal

1. Drupal

```
wget http://ftp.drupal.org/files/projects/drupal-7.56.zip
```

2.

```
unzip drupal-7.56.zip
mv drupal-7.56/* /var/www/html/
```

3.

```
cd /var/www/html/
```

```
wget -P profiles/standard/translations
http://ftp.drupal.org/files/translations/7.x/drupal/drupal-7.56.zh-
hans.po
```

4. sites

```
chown -R apache:apache /var/www/html/sites
```

5. Apache

```
service httpd restart
```

6.

http://115.xxx.xxx.xxx/ (

115.xxx.xxx.xxx

CVM

IP)

Drupal

[Save and continue]

PHP Version 5.4.16



System	Linux VM_165_193_centos 3.10.0-327.36.3.el7.x86_64 #1 SMP Mon Oct 24 16:09:20 UTC 2016 x86_64
Build Date	Nov 6 2016 00:30:05
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/curl.ini, /etc/php.d/fileinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysql.ini, /etc/php.d/mysqli.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysql.ini, /etc/php.d/pdo_sqlite.ini, /etc/php.d/phar.ini, /etc/php.d/sqlite3.ini, /etc/php.d/zip.ini
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend	API20100525 NTS

7. , [Save and continue]
8. , mariadb
9. .
10. Drupal .
11. `http://115.xxxx.xxxx.xxxx/` (115.xxxx.xxxx.xxxx CVM IP)

Python MySQL API

:: 2024-07-25 16:38:48

API	
CreateDBInstance	CDB
CreateDBInstanceHour	CDB ()
DescribeDBInstances	
DescribeDBPrice	
DescribeDBZoneConfig	CDB
InitDBInstances	

CreateDBInstance CDB

```
client = cdb_client.CdbClient(cred, "ap-beijing")

# 客户端参数: req = models.ModifyInstanceParamRequest()
req = models.CreateDBInstanceRequest()
req.Memory = 2000
req.Volume = 120
req.Period = 1
req.GoodsNum = 1
req.Zone = "ap-beijing-1"
req.Port = 3306
#req.MasterInstanceId = "cdb-7ghaiocc"
req.InstanceRole = "master"
req.EngineVersion = "5.6"
req.Password = "CDB@Qcloud"
req.ProtectMode = 0
req.InstanceName = "tencentcdb"
req.SecurityGroup = ["sg-eq0hvlzp"]

# 客户端调用: resp = client.CreateDBInstance(req)
# json 响应: print(resp.to_json_string())

except TencentCloudSDKException as err:
    msg = traceback.format_exc() # 打印异常
    print (msg)

''' 客户端示例代码 '''
def CreateDBInstancedemoro():
    try:
        # 1. 从秘钥对 (secretId, secretKey) 中获取秘钥对, 2. 从 Tencent Cloud 调用秘钥对
        cred = credential.Credential("secretId", "secretKey")
        # 3. 从秘钥对 (secretId: cdb) 中获取客户端
        client = cdb_client.CdbClient(cred, "ap-beijing")
```

```
client = cdb_client.CdbClient(cred, "ap-beijing")

# 客户端参数: req = models.ModifyInstanceParamRequest()
req = models.CreateDBInstanceRequest()
req.Memory = 2000
req.Volume = 200
req.Period = 1
req.GoodsNum = 1
req.Zone = "ap-beijing-1"
req.Port = 3306
req.InstanceRole = "ro"
req.EngineVersion = "5.6"
req.Password = "CDB@Qcloud"
req.ProtectMode = 0
req.DeployMode = 1
req.GoodsNum = 2
req.SlaveZone = "ap-beijing-1"
req.ParamList = [{"name": "max_connections", "value": "1000"}, {"name": "lower_case_table_names", "value": "1"}]
req.BackupZone = "0"
req.AutoRenewFlag = 0
req.MasterInstanceId = "cdb-bgr97hu0"
req.RoGroup = {"RoGroupMode": "allinone", "RoGroupName": "roweek"}
req.InstanceName = "tencentcdbRO"

# 客户端参数: resp = client.CreateDBInstance(req)
# json 响应参数
print(resp.to_json_string())

except TencentCloudSDKException as err:
    msg = traceback.format_exc() # 报错
    print (msg)

''' 客户端参数: def CreateDBInstancedemodr():
    try:
```

```
# 1. 导入秘钥，秘钥是 Tencent Cloud 提供的 secretId, secretKey
secretKey = "secretKey"
cred = credential.Credential("secretId", "secretKey")

#2. 创建 CDB 客户端
client = cdb_client.CdbClient(cred, "ap-shanghai")

#3. 创建请求: req = models.ModifyInstanceParamRequest()
req = models.CreateDBInstanceRequest()

req.Memory = 4000
req.Volume = 200
req.Period = 1
req.GoodsNum = 1
#req.Zone = "ap-shanghai-2"
req.Port = 3306
req.InstanceRole = "dr"
#req.MasterInstanceId
req.EngineVersion = "5.6"
req.Password = "CDB@Qcloud"
req.ProtectMode = 0
req.DeployMode = 0
#req.SlaveZone = "ap-guangzhou-3"
req.ParamList = [{"name": "max_connections", "value": "1000"}, {"name": "lower_case_table_names", "value": "1"}]
req.BackupZone = "0"
req.AutoRenewFlag = 0
#req.RoGroup = {"RoGroupMode": "alone", "RoGroupName": "roweek"}
#req.RoGroup = {"RoGroupName": "roweek"}
#param = models.RoGroup()
#param.RoGroupMode = "alone"
#param.RoGroupName = "roweek"
#param.MinRoInGroup = 1
#req.RoGroup = [param]

#ro = [{"roGroupMode": "allinone"}, {"RoGroupName": "ro_www"}]
#req.RoGroup = [ro]
req.MasterInstanceId = "cdb-bgr97hu0"
req.MasterRegion = "ap-beijing"
```

CreateDBInstanceHour CDB

()

```
# 客户端初始化
client = cdb_client.CdbClient(cred, "ap-beijing")

# 客户端请求: req = models.ModifyInstanceParamRequest()
req = models.CreateDBInstanceHourRequest()
req.EngineVersion = "5.6"
req.Zone = "ap-beijing-3"
req.ProjectId = 0
req.GoodsNum = 1
req.Memory = 1000
req.Volume = 50
req.InstanceRole = "master"
req.Port = 3311
req.Password = "CDB@Qcloud"
req.ParamList = [{"name": "max_connections", "value": "1000"}, {"name": "lower_case_table_names", "value": "1"}]
req.ProtectMode = 1
req.SlaveZone = "ap-beijing-3"
req.InstanceName = "oneday1"
req.AutoRenewFlag = 0

# 客户端调用
resp = client.CreateDBInstanceHour(req)

# json 格式输出
print(resp.to_json_string())

except TencentCloudSDKException as err:
    msg = traceback.format_exc() # 1
    print (msg)
```

DescribeDBInstances

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# API 客户端
import logging
```

```
import traceback
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入所需的模块，包括腾讯云 SDK，以及错误处理模块
    # 2. 定义凭证类，通过 secretId 和 secretKey 构造
    cred = credential.Credential("secretId", "secretKey")

    # 3. 定义客户端类，通过凭证和地域（ap-shanghai）构造
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 4. 定义请求类
    req = models.ModifyInstanceParamRequest()
    req = models.DescribeDBInstancesRequest()
    req.EngineVersions = ["5.6"]
    req.OrderBy = "instanceId"
    req.InstanceIds = ["cdb-1j8lumf6"]

    # 5. 调用客户端的 DescribeDBInstances 方法，传入请求对象
    resp = client.DescribeDBInstances(req)

    # 6. 打印返回的 JSON 格式数据
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    msg = traceback.format_exc() # 7.1
    print (msg)
```

DescribeDBPrice

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 1. 导入所需的模块，包括腾讯云 SDK，以及错误处理模块
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
```

```
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入 SDK, 2. 从 Tencent Cloud 导入 secretId, secretKey
    cred = credential.Credential("secretId", "secretKey")

    # 3. 通过 cred 创建 client
    client = cdb_client.CdbClient(cred, "ap-guangzhou")

    # 4. 通过 client 生成 req: req = models.ModifyInstanceParamRequest()
    req = models.DescribeDBPriceRequest()
    req.Zone = "ap-guangzhou-3"
    req.GoodsNum = 1
    req.Memory = 2000
    req.Volume = 1000
    req.PayType = 'PRE_PAID'
    req.Period=1

    # client 通过 req 生成 resp, 5. 通过 resp 调用 to_json_string()
    resp = client.DescribeDBPrice(req)

    # json 格式打印
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

DescribeDBZoneConfig CDB

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 1. 导入 API 相关模块
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
```

```
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入 SDK, 2. 从 Tencent Cloud 导入 secretId, secretKey
    cred = credential.Credential("secretId", "secretKey")

    # 3. 通过 cred 和 (Region: cdb) 为 client
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 4. 通过 client 为 req: models.ModifyInstanceParamRequest()
    req = models.DescribeDBZoneConfigRequest()
    # req.InstanceId = "cdb-j0edpju5"

    # client 为 resp: models.DescribeDBZoneConfigResponse
    resp = client.DescribeDBZoneConfig(req)

    # json 格式打印
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

InitDBInstances

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 1. 导入 API 2. 导入 credential

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
```

```
# 1. 导入必要的模块，包括腾讯云腾讯云 secretId, secretKey
# 2. 定义凭证
cred = credential.Credential("secretId", "secretKey")

#3. 定义客户端
client = cdb_client.CdbClient(cred, "ap-shanghai")

#4. 定义请求: req = models.ModifyInstanceParamRequest()
req = models.InitDBInstancesRequest()
req.InstanceIds = ["cdb-c752yqcn"]
req.NewPassword = "CDB@Qcloud"

req.Parameters = [{"name": "max_connections", "value": "100"}, {"name": "character_set_server", "value": "utf8"}, {"name": "lower_case_table_names", "value": "1"}]

# 客户端发起请求
resp = client.InitDBInstances(req)

# json 格式打印
print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

:: 2024-07-25 16:38:48

API	
ModifyInstanceParam	
CloseWanService	
OpenWanService	
RestartDBInstances	
OpenDBInstanceGTID	GTID
ModifyDBInstanceName	CDB
ModifyDBInstanceProject	CDB
ModifyDBInstanceVipVport	CDB IP
DescribeDBInstanceCharset	CDB
DescribeDBInstanceConfig	CDB
DescribeDBInstanceGTID	CDB GTID
DescribeDBInstanceRebootTime	CDB

ModifyInstanceParam

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 腾讯云 API 文档
import logging
import traceback
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
```

```
# 1. 导入腾讯云 SDK，调用方需先安装 Tencent Cloud SDK secretId, secretKey
# 密钥
cred = credential.Credential("secretId", "secretKey")

#2. 创建 CDB 客户端
client = cdb_client.CdbClient(cred, "ap-shanghai")

#3. 构造请求
req = models.ModifyInstanceParamRequest()
req.InstanceIds = ["cdb-1y6g3zj8", "cdb-7ghaiocc"]
req.ParamList = [{"name": "max_connections", "currentValue": "100"}, {"name": "character_set_server", "currentValue": "utf8"}, {"name": "lower_case_table_names", "currentValue": "1"}]
#req.ParamList = [{"name": "max_connections", "currentValue": "100"}]
param = models.Parameter()
param.Name = "max_connections"
param.CurrentValue = "1000"
req.ParamList = [param]

print req
# 客户端调用 ModifyInstanceParam 方法，返回值为 JSON 格式
resp = client.ModifyInstanceParam(req)

# 将 JSON 格式打印出来
print resp.to_json_string()

except TencentCloudSDKException as err:
    msg = traceback.format_exc() # 3.1
    print (msg)
```

CloseWanService

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 1. 导入 API 对象
from tencentcloud.common import credential
```

```
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入 SDK，调用类 Tencent Cloud 的 secretId, secretKey
    # 2. 导入类 credential.Credential
    cred = credential.Credential("secretId", "secretKey")

    # 3. 导入类 client.CdbClient
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 4. 导入类 req = models.ModifyInstanceParamRequest()
    req = models.CloseWanServiceRequest()
    req.InstanceId = "cdb-1y6g3zj8"

    # client 调用方法 CloseWanService(req)
    resp = client.CloseWanService(req)

    # json 格式打印
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

OpenWanService

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 1. 导入 API 对象
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
```

```
# 1. 导入公共模块, 包含了 Tencent Cloud 的 secretId, secretKey
# 定义
cred = credential.Credential("secretId", "secretKey")

# 定义 cdb 客户端
client = cdb_client.CdbClient(cred, "ap-shanghai")

# 定义请求: req = models.ModifyInstanceParamRequest()
req = models.OpenWanServiceRequest()
req.InstanceId = "cdb-1y6g3zj8"

# 客户端调用方法, 完成操作
resp = client.OpenWanService(req)

# json 格式输出
print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

RestartDBInstances

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 定义 API 调用模块
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入公共模块, 包含了 Tencent Cloud 的 secretId, secretKey
    # 定义
    cred = credential.Credential("secretId", "secretKey")

    # 定义 cdb 客户端
    client = cdb_client.CdbClient(cred, "ap-shanghai")
```

```
# 云 API: req = models.ModifyInstanceParamRequest()
req = models.DescribeDBInstancesRequest()
#req.MasterInstanceId = "cdb-7ghaiocc"

# client 为云 API 对象, 调用对象
resp = client.InitDBInstances(req)

# json 格式打印
print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

OpenDBInstanceGTID

GTID

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 云 API 对象
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 云 API 调用, 需要腾讯云密 ID, secretId, secretKey
    # 2. 密
    cred = credential.Credential("secretId", "secretKey")

    # 3. (1: cdb) 为 client 对象
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 4. 云 API: req = models.ModifyInstanceParamRequest()
    req = models.OpenDBInstanceGTIDRequest()
    req.InstanceId = "cdb-7ghaiocc"

    # client 对象调用云 API
    resp = client.OpenDBInstanceGTID(req)
```

```
# json 亂碼 亂碼 亂碼
print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

ModifyDBInstanceName CDB

ModifyDBInstanceProject CDB

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 调用 API 例程
import logging
import traceback
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

def DescribeDBInstancesList():
    try:
        # 1. 导入秘钥对, 2. 从 Tencent Cloud 导入 secretId,
        secretKey# 密钥对
        cred = credential.Credential("secretId", "secretKey")

        #3. 导入(4: cdb)的 client 对象
        client = cdb_client.CdbClient(cred, "ap-shanghai")

        #4. 导入(5: req = models.ModifyInstanceParamRequest())
        req = models.ModifyDBInstanceProjectRequest()
        req.InstanceIds = ["cdb-7ghaiocc"]
        req.NewProjectId = 1

        #5. 调用 client 的 ModifyDBInstanceProject 方法
        resp = client.ModifyDBInstanceProject(req)

        #6. 将 json 格式的数据打印出来
        print(resp.to_json_string())
    except TencentCloudSDKException as err:
        msg = traceback.format_exc() # 例1
        print (msg)
```

```
DescribeDBInstancesList()
```

ModifyDBInstanceVipVport CDB

IP

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 调用 API 例程 例程
import logging
import traceback
from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 例程 例程 例程 例程, 例程 例程 例程 Tencent Cloud 例程 secretId, secretKey
    例程 例程
    cred = credential.Credential("secretId", "secretKey")

    # 例程 例程
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 例程 例程 例程 例程: req = models.ModifyInstanceParamRequest()
    req = models.ModifyDBInstanceVipVportRequest()
    req.InstanceId = "cdb-7ghaiocc"
    req.DstIp = "10.0.0.13"
    req.DstPort = 1025
    req.UniqVpcId = 1111

    # 例程 例程
    resp = client.ModifyDBInstanceVipVport(req)

    # json 例程 例程 例程 例程

```

DescribeDBInstanceCharset CDB

DescribeDBInstanceConfig CDB

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 调用 API 例程 2

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 例程 2 调用参数, 请将 Tencent Cloud 22 secretId, secretKey 替
换为自己的
    cred = credential.Credential("secretId", "secretKey")

    # 调用对象 例程 2: cdb 客户端对象
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 例程 2 调用请求: req = models.ModifyInstanceParamRequest()
    req = models.DescribeDBInstanceConfigRequest()
    req.InstanceId = "cdb-1y6g3zj8"

    # 客户端调用请求, 例程 2: resp = client.DescribeDBInstanceConfig(req)
    resp = client.DescribeDBInstanceConfig(req)

    # json 格式打印结果
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

DescribeDBInstanceGTID CDB

GTID

```
#!/usr/bin/python
# -*- coding: utf-8 -*-
```

DescribeDBInstanceRebootTime<42/>CDB

```
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入 SDK，调用类 TencentCloudSDKException
    # 2. 导入模块 cdb.v20170320，调用类 CdbClient
    # 3. 导入类 Credential，调用类 Credential("secretId", "secretKey")
    cred = credential.Credential("secretId", "secretKey")

    # 4. 导入类 ModifyInstanceParamRequest, DescribeDBInstanceRebootTimeRequest
    # 5. 调用类 CdbClient，参数为 cred, 地域名
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 6. 调用类 ModifyInstanceParamRequest: req = models.ModifyInstanceParamRequest()
    # 7. 调用类 DescribeDBInstanceRebootTimeRequest: req = models.DescribeDBInstanceRebootTimeRequest()
    # 8. 调用类 CdbClient，参数为 req
    req.InstanceIds = ["cdb-1y6g3zj8"]

    # client 调用方法 DescribeDBInstanceRebootTime，参数为 req
    resp = client.DescribeDBInstanceRebootTime(req)

    # json 格式打印
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

:: 2024-07-25 16:38:48

API	
CreateBackup	CDB
DeleteBackup	CDB
DescribeBackupConfig	CDB
DescribeBackupDatabases	
DescribeBackupTables	
DescribeBackups	
DescribeBinlogs	
DescribeSlowLogs	
ModifyBackupConfig	

CreateBackup CDB

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 调用 API 代码示例

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入所需的模块，2. 调用 Tencent Cloud API，3. 调用 secretId, secretKey
    cred = credential.Credential("secretId", "secretKey")

    # 4. 调用 CDB 客户端
    client = cdb_client.CdbClient(cred, "ap-shanghai")
```

```
# 定义请求: req = models.ModifyInstanceParamRequest()
req = models.CreateBackupRequest()
#req.MasterInstanceId = "cdb-7ghaiocc"
req.BackupMethod = "logical"

print req
# 客户端调用 CreateBackup, 返回结果
resp = client.CreateBackup(req)

# json 格式输出
print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

DeleteBackup CDB

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 定义 API 调用参数

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入密钥对, 2. 调用 Tencent Cloud 提供的密钥对类
    cred = credential.Credential("secretId", "secretKey")

    # 3. 通过密钥对, 调用 CdbClient
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 4. 定义请求: req = models.ModifyInstanceParamRequest()
    req = models.DeleteBackupRequest()
```

DescribeBackupConfig CDB

DescribeBackupDatabases

```
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    msg = traceback.format_exc() # 101
    print (msg)
```

DescribeBackupTables

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 100 API 2020-02-01

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 100 20 200 2000, 2000 20 2 Tencent Cloud 20 secretId, secretKey
    # 20 20
    cred = credential.Credential("secretId", "secretKey")

    #2000 2 20(2: cdb)2 client 20 20 20
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    #20 20 2000: req = models.ModifyInstanceParamRequest()
    req = models.DescribeBackupTablesRequest()
    #req.MasterInstanceId = "cdb-7ghaiocc"
    req.StartTime = "2018-08-02 15:19:19"
    req.DatabaseName = "sissi"

    # client 200 20 2000 2000 20, 20 20 20 20
    resp = client.DescribeBackupTables(req)

    # json 200 200 20
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

DescribeBackups

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 调用 API 例程 2

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 例程 2 调用参数, 请将 Tencent Cloud 22 secretId, secretKey 替
换
    cred = credential.Credential("secretId", "secretKey")

    # 调用对象 例程 2: cdb 客户端对象
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 例程 2 调用请求: req = models.ModifyInstanceParamRequest()
    req = models.DescribeDBPriceRequest()
    #req.MasterInstanceId = "cdb-7ghaiocc"

    # 客户端调用方法 例程 2: resp, 例程 2
    resp = client.DescribeBackups(req)
    print resp

    # json 格式输出 例程 2
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

DescribeBinlogs

```
#!/usr/bin/python
# -*- coding: utf-8 -*-
```

```
# 调用 API 例程

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 通过 SecretId 和 SecretKey，调用 Tencent Cloud API
    # 2. 通过 Credential
    cred = credential.Credential("secretId", "secretKey")

    # 3. 通过 Client
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 4. 通过 Request: req = models.ModifyInstanceParamRequest()
    #    req = models.DescribeDBPriceRequest()
    #    req.MasterInstanceId = "cdb-7ghaiocc"

    # client 调用 API 例程，返回结果
    resp = client.DescribeDBInstances(req)

    # json 格式打印结果
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

DescribeSlowLogs

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 调用 API 例程

from tencentcloud.common import credential
```

```
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
    # 1. 导入 SDK，调用类 TencentCloudSDKException
    # 2. 导入 API 对象 cdb_client
    # 3. 导入请求类 models
    # 4. 导入常量 ap-shanghai

    cred = credential.Credential("secretId", "secretKey")

    # 5. 实例化一个 client 对象
    client = cdb_client.CdbClient(cred, "ap-shanghai")

    # 6. 实例化一个请求对象，根据实际情况进行设置
    req = models.ModifyInstanceParamRequest()
    req = models.DescribeSlowLogsRequest()
    #req.MasterInstanceId = "cdb-7ghaiocc"

    # 7. 调用 client 的方法调用 API
    resp = client.DescribeSlowLogs(req)

    # 8. 打印返回结果
    print(resp.to_json_string())
except TencentCloudSDKException as err:
    print(err)
```

ModifyBackupConfig

```
#!/usr/bin/python
# -*- coding: utf-8 -*-

# 1. 导入 API 对象 cdb_client
# 2. 导入请求类 models
# 3. 导入常量 ap-shanghai
# 4. 导入异常类 TencentCloudSDKException
# 5. 导入 credential 模块

from tencentcloud.common import credential
from tencentcloud.common.exception.tencent_cloud_sdk_exception import
TencentCloudSDKException
from tencentcloud.cdb.v20170320 import cdb_client, models

try:
```

```
# 1. 导入必要的模块，包括腾讯云腾讯云 secretId, secretKey
# 密钥
cred = credential.Credential("secretId", "secretKey")

#2. 客户端（cdb）的 client 对象
client = cdb_client.CdbClient(cred, "ap-shanghai")

#3. 定义请求对象: req = models.ModifyInstanceParamRequest()
req = models.ModifyBackupConfigRequest()
req.InstanceId = "cdb-1y6g3zj8"
req.ExpireDays = 10
req.StartTime = "06:00-10:00"
req.BackupMethod = "logical"
print req

# 客户端调用方法
resp = client.ModifyBackupConfig(req)

# json 格式输出
print(resp.to_json_string())

except TencentCloudSDKException as err:
    print(err)
```