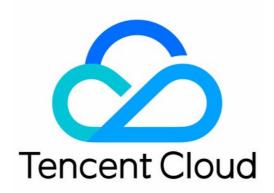


TDSQL-C for MySQL Getting Started Product Documentation





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Getting Started Creating Cluster

Last updated : 2022-09-20 00:03:26

This document describes how to create a cluster in the TDSQL-C for MySQL console.

Prerequisites

To make a purchase, you need to complete identity verification first. For more information, see Identity Verification Guide.

Directions

- 1. Log in to the purchase page, complete the Database Configuration settings, and click Next.
 - Compute Billing Mode: Monthly subscription, pay-as-you-go, and serverless billing modes are supported.
 - Region: Select a region for database deployment.
 - **Source AZ**: Select an AZ for deployment. Specific AZs in the selected region are shown on the actual purchase page.
 - **Multi-AZ Deployment**: Select whether to enable multi-AZ deployment. If you enable it, the replica AZ option will appear.
 - **Replica AZ**: It is disabled by default and can be selected after multi-AZ deployment is enabled.
 - **Network**: For performance and security considerations, only VPC network is supported currently. CVM instances can communicate with TDSQL-C clusters only in the same VPC.
 - Compatible Database: MySQL 5.7 and 8.0 are supported.
 - Compute Instance Quantity: The instance quantity includes one read-write instance and one or more readonly instances. We recommend you select at least two instances to ensure the high availability of the cluster. After the cluster is created, you can expand its read capacity by adding read-only instances.
 - **Instance Specification**: For more information on calculating the instance specification and storage capacity, see Billing Overview.

Instance Specificatio	n All CPU	J Specs 🗸	All Memory Specs	~					
	U	Dedicated	12-core	96GB	288000	36Gbps	80TB	4 AZs	D/month 🔺
	0	Dedicated	16-core	64GB	384000	48Gbps	100TB	4 AZs	USD/month
	0	Dedicated	16-core	96GB	384000	48Gbps	100TB	4 AZs	3D/month
	0	Dedicated	16-core	128GB	384000	48Gbps	100TB	4 AZs	D/month
	0	Dedicated	24-core	96GB	480000	60Gbps	150TB	4 AZs	SD/month
									τ.

Note :

If your desired instance specification is sold out, you can click **Do you need it?**, and the pop-up window will display instances of the same specification in other AZs. If none of them meet your requirements, submit a ticket for assistance.

Dedicated Sold out 88-core 710GB 780000 98Gbps 400TB 0 AZs	0	Dedicated	64-core	384GB	720000	90Gbps	400TB	4 AZs
		Dedicated Sold out Do you need it?	88-core	710GB	780000	98Gbps	400TB	
	-				ow o m			

• Storage Billing Mode:

- Pay-as-you-go billing is supported, which means you don't need to specify a storage option when you buy.
 TDSQL-C for MySQL is billed by the actual storage used per hour.
- Monthly subscription billing is supported, which means you need to purchase monthly-subscribed storage space now (billed in the entirety regardless of whether it is used up).

Note :

- Monthly-subscribed storage space can be purchased only after you select the monthly subscription billing mode.
- For more information on how to select an appropriate billing mode for storage space, see Selecting Billing Mode for Storage Space.
- Auto-Renewal: Auto-renew the device monthly upon expiration if your account has sufficient balance.

2. Complete the **Basic Info** and **Advanced Configuration** settings, select the **Validity Period**, confirm the fees, and click **Buy Now**.

• Basic Info

- Cluster Name: Name the cluster now or later with up to 60 letters, digits, hyphens, underscores, and dots.
- Admin Username: It is root by default.
- Password: The password can contain 8–64 characters in at least three of the following character types: uppercase letters, lowercase letters, digits, and special symbols ~!@#\$%^&*_-+=|\() { }
 []:;'<>,.?/.
- **Default Character Set**: UTF8, GBK, LATIN1, and UTF8MB4 are supported.
- Custom Port: It is 3306 by default and can be customized.
- Advanced Configuration
 - Security Group: Select or create a security group.
 - **Parameter Template**: Select or create a parameter template.
 - Table Name Case Sensitivity: Select Case-Insensitive or Case-Sensitive.
 - **Project**: Specify a project for the cluster to be created.
 - Alarm Policy: Select or create an alarm policy.
 - Tag: Add a tag to facilitate resource categorization and management.
 - Terms and Conditions: Read and indicate your consent to the terms and conditions.

Cloud Native Database TDSQL	C (Former CynosDB)		
Oatabase Configuration	2 Basic Info	3 Complete	
Basic Info			
Cluster Name It Later Name It Now			
Admin Username root			
Password Enter the password			
Confirm Password Enter the password again 😽			
Default Character Set UTF8 GBK	LATIN1 UTF8MB4		
Custom Port – 3306 +			
Advanced Configuration			
Selected instance specification: Dedicated 2-core/4 GB MEM 17% off			Configuration Fees
Period 1 2 6 months 1 year More Quantity	Y – 1 +		USD Previous Buy Now

Note:

 When you hover over Configuration Fees, the details such as computing fees and storage fees will be displayed.

Billable Item	Original Price	Discount	Discounted Price	
Computing Fees	JSD	17% off	USD	
Total	IUSD	17% off	2USD	

Cluster quantity

Pay-as-you-go: You can purchase up to ten TDSQL-C for MySQL clusters in each AZ. If you need more, submit a ticket for assistance.

Monthly subscription: You can purchase an unlimited number of clusters.

- When the amount of data stored in a cluster exceeds its maximum storage space, the cluster can only read but not write data. In this case, you can choose to delete redundant data or upgrade the specification.
- 3. After the purchase is completed, you will be redirected to the cluster list. After the status of the cluster becomes **Running**, it can be used normally.

Subsequent operations

After purchasing the TDSQL-C for MySQL cluster, you can connect to it through its private or public network address or DMC. For more information, see Connecting to Cluster.

Connecting to Cluster

Last updated : 2022-07-29 11:51:46

Connection Methods

You can connect to TDSQL-C for MySQL in the following ways:

- Private network connection: A CVM instance can be used to connect to the private network address of a TDSQL-C for MySQL instance. This method utilizes the high-speed private network of Tencent Cloud and features low delay.
- The CVM instance and the database must be under the same account and in the same VPC in the same region.
- The private network address is provided by the system by default and can be viewed in the cluster list or on the cluster details page in the console.

Note:

CVM and TencentDB instances in different VPCs (under the same or different accounts in the same or different regions) can be interconnected over the private network through Cloud Connect Network.

- **Public network connection**: You can connect to your TDSQL-C for MySQL cluster at its public network address. The public network address needs to be manually enabled. It can be viewed on the instance details page in the console and can be disabled if no longer needed.
- Enabling the public network address will expose your database services to the public network, which may lead to database intrusions or attacks. We recommend you use the private network to connect to the database.
- Public network access to TencentDB is suitable for development or auxiliary database management but not for actual business access, because uncontrollable factors may cause public network access to be unavailable, such as DDoS attacks and sudden surges in access traffic.
- **DMC connection**: You can access TDSQL-C for MySQL through Database Management Console (DMC).

Connection to TDSQL-C for MySQL over Private or Public Network

Connecting from Windows CVM instance

- 1. Log in to a Windows CVM instance. For more information, see Customizing Windows CVM Configurations.
- 2. Download a standard SQL client.

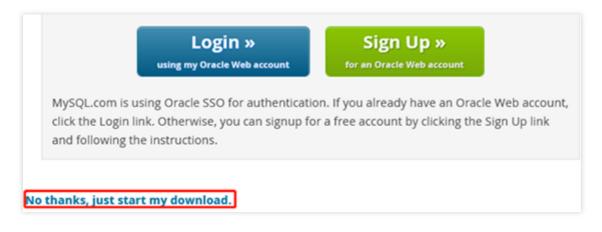


Note :

We recommend you download MySQL Workbench. Click here and download an installer based on your operating system.

MySQL Workbench 8.0.18			
Select Operating System:		Looking for previous GA	
Microsoft Windows	~	versions?	
Recommended Download:			
MySQL Installer for Windows		E.	
All MySQL Products. For All Windows Platforms In One Package.	ъ. Т		
Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI package	es.		
Windows (x86, 32 & 64-bit), MySQL Installer MS	I	Go to Download Page	>
Other Downloads:			
Windows (x86, 64-bit), MSI Installer	8.0.18	37.2M Downlo	oad

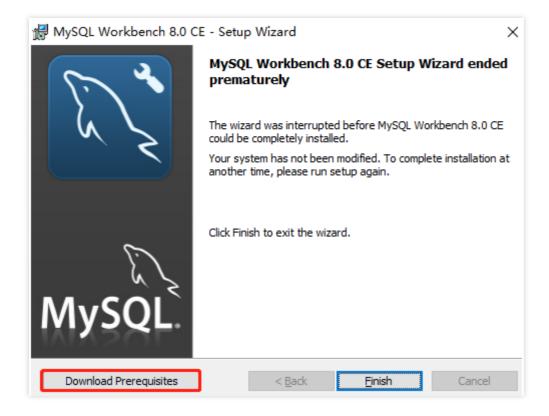
3. Login, Sign Up, and No thanks, just start my download. will appear on the page. Select No thanks, just start my download. to download quickly.



4. Install MySQL Workbench on this CVM instance.

Note :

- Microsoft .NET Framework 4.5 and Visual C++ Redistributable for Visual Studio 2015 are required for the installation.
- You can click **Download Prerequisites** in the MySQL Workbench installation wizard to enter the corresponding page to download and install them. Then, install MySQL Workbench.

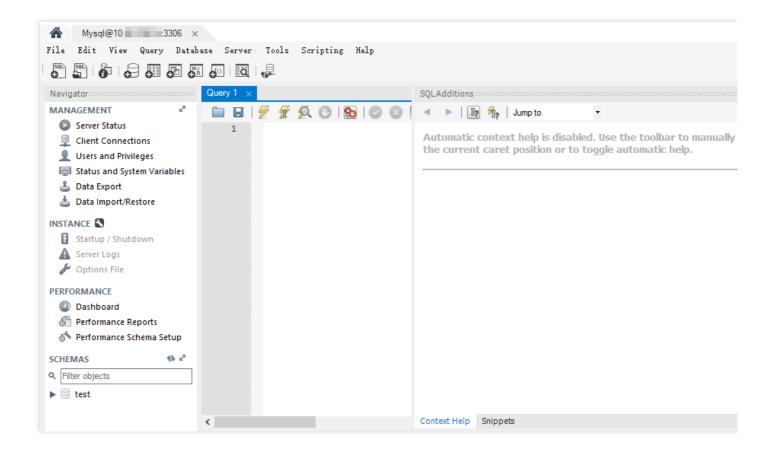


- 5. Open MySQL Workbench, select **Database** > **Connect to Database**, enter the private (or public) network address, username, and password of your MySQL instance and click **OK** to log in.
 - Hostname: Enter the private (or public) network address of the target database, which can be viewed on the cluster details page in the console. For public network address, check whether it has been enabled as instructed in Enabling Public Network Address.
 - **Port**: Private (or public) network port.
 - $\circ~$ Username: The default value is ~ root ~ .

• **Password**: The password corresponding to the username. If you forgot the password, reset it in the console.

MySQL Wo	orkbench		– 0 ×
	View D:	atabase Tools Scripting Help	
	MyS	SQL Connections 🟵 🕲	۹ Filter connections
		📓 Connect to Database — 🗆 🗙	
		Stored Connection: Select from saved connection settings	
		Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS	
		Parameters SSL Advanced	
		Hostname: 10. Port: 3306 Name or IP address of the server host - and TCP/IP port.	
		Username: root Name of the user to connect with.	
		Password: Store in Vault Clear The user's password. Will be requested later if it's not set.	
		Default Schema: The schema to use as default schema. Leave blank to select it later.	
		OK Cancel	

6. After successful login, the following page will appear, where you can view the modes and objects of the database, create tables, and perform operations such as data insertion and query.



Connecting from Linux CVM instance

- 1. Log in to the Linux CVM instance. For more information, see Customizing Linux CVM Configurations.
- 2. Taking a CVM instance on CentOS 7.2 (64-bit) as an example, run the following command to install the MySQL client.

yum **install** mysql

If Complete! is displayed, the MySQL client is installed successfully.

> Running transaction check > Package mariadb-libs.x86_6 > Package mariadb-libs.x86_6 > Finished Dependency Resolut Dependencies Resolved	install mysql langpacks med hostfile 5.5.52-1.el7 will be iadb-libs(x86-64) = 1 54 1:5.5.50-1.el7_2 will 54 1:5.5.52-1.el7 will bion	:5.5.52-1.el7 for package: 1:mariadf uill be updated I be an update		
Package	Arch	Version	Repository	Size
Installing: mariadb Updating for dependencies: mariadb-libs Transaction Summary	x86_64 x86_64	1:5.5.52-1.el7 1:5.5.52-1.el7	0S 0S	8.7 M 761 k
Install 1 Package	ent package) sr/bin/applydeltarpm 17.x86_64.rpm	not installed.	i 761 kB i 8.7 MB	88:88:88
Total Running transaction check Running transaction test Transaction test succeeded Running transaction Updating : 1:mariadb-libs-5 Installing : 1:mariadb-libs-5 Installed: mariadb.x86_64 1:5.5.52-1.e Dependency Updated: mariadb-libs.x86_64 1:5.5.5 Complete! Iroot@UM_135_34_centos ~]#	2-1.el7.x86_64 5.5.50-1.el7 2.x86 64 17	ł	8.1 MB∕s ¦ 9.5 MB	00:00:01 1/3 2/3 3/3

3. Perform the corresponding operation based on the connection method:

• Private network connection:

i. Run the following command to log in to the TDSQL-C for MySQL cluster.

mysql -h hostname -**P** port -u username -**p**

- hostname: Replace it with the private network address of the target cluster, which can be viewed on the cluster details page in the console.
- port: Replace it with the private network port number.

• username: Replace it with the default username root .

For example, if the private network address is 10.0.168.14:5308 and the username is root , enter the following connection command: mysql -h 10.0.168.14 -P 5308 -u root -p .

- ii. Enter the password corresponding to the root account of the cluster after Enter password: is prompted. If you forgot the password, reset it in the console.
 - If MySQL [(none)]> is displayed, you have logged in to TDSQL-C for MySQL successfully.

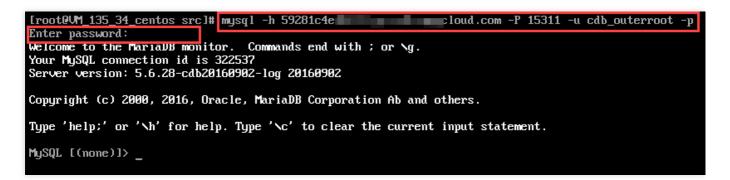
[root@VM_135_34_centos ~]# mysql -h 10.66u root -p Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g. Your MySQL connection id is 155439 Server version: 5.6.28-cdb20160902-log 20160902
Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or 'Nh' for help. Type 'Nc' to clear the current input statement.
MySQL [(none)]>

- Public network connection:
 - i. Run the following command to log in to the TDSQL-C for MySQL cluster.

mysql -h hostname -**P** port -u username -**p**

- hostname: Replace it with the public network address of the target cluster, which can be viewed together with the port on the cluster details page in the console. If the public network address has not been enabled, enable it as instructed in Enabling Public Network Address.
- port: Replace it with the public network port number.
- username: Replace it with the public network connection username. We recommend you create a separate account in the console for easier connection control.
- ii. Enter the password corresponding to the public network connection username after Enter password: is prompted. If you forgot the password, reset it in the console.

In this example, hostname is 59281c4exxx.myqcloud.com and public network port is 15311.



4. Under the MySQL [(none)]> prompt, you can send an SQL statement to the TDSQL-C for MySQL server for execution. For specific command lines, see mysql Client Commands.
 Below takes show databases; as an example:

MySQL [(none)]> show databases;
l Database
++ information_schema
¦ mysql i performance_schema
i test
** 4 rows in set (0.00 sec)

Connection Through DMC

- 1. Log in to the console and click Log In in the Operation column in the cluster list.
- 2. On the login page of DMC, enter "root" as the account and the password configured for the root account during cluster creation and click **Log In**.

Note :

DMC enables you to easily access instances, manipulate tables and databases, manage instance sessions, and monitor InnoDB lock waits, SQL window, etc. in real time.

Туре	TDSQL-C for MySQL	Ŧ
Region	South China (Guangzhou)	Ŧ
Instance	cyno	Ŧ
Account	Database account	
Password	Database password	
Password	Database password	

Appendix 1. Enabling Public Network Address

Note:

To connect over the public network, you need to enable the public network address of your database first.

- 1. Log in to the console and click a cluster ID in the cluster list to enter the cluster details page.
- 2. On the cluster details page, click **Enable** after the public network addresses.

Connection Info	
Private Read-Write Address:	Public Read-Write Address: Enable
Private Read-Only Address:	Public Read-Only Address: Enable

3. In the pop-up window, click **OK**.

Note :

- Once enabled successfully, the public network address can be viewed in the connection information.
- The public network access can be disabled by using the switch. When it is enabled again, the public IP corresponding to the domain name remains the same.
- To access the public network, you need to enable and configure a security group policy and open the default (3306) or modified private network access port.

