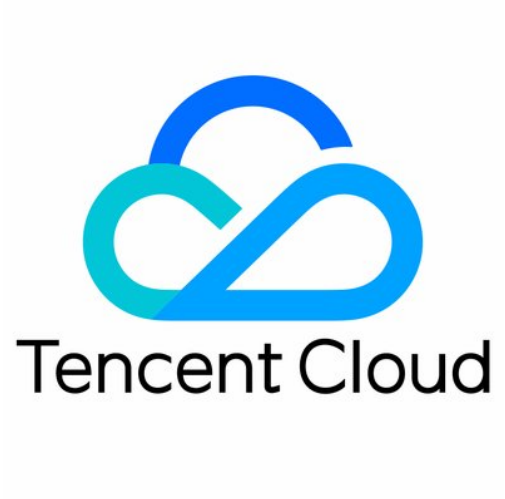
TencentDB for CTSDB

Client

Product Documentation



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SDK Reference

Last updated：2025-04-29 23:12:40

TencentDB for CTSDB 3.0 is natively compatible with the open-source InfluxDB v1.7. The open-source community has provided Client SDK for TSDB For InfluxDB® in multiple languages, as listed below. For more Client SDKs, see InfluxData.

Go

InfluxDB Client

Java

influxdb-java

JavaScript/Node.js

node-influx

PHP

influxdb-php
InfluxDB PHP SDK (influxdb-php-sdk)

Python

InfluxDB-Python (influxdb-python)

Ruby

influxdb-ruby

Influxer (influxer)

influx CLI Client

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The influx CLI Client is a command-line interface tool for interacting with the database. You can use it to write data and perform interactive queries.

Prerequisites

1. Log in to the Cloud Virtual Machine Console and purchase a CVM. You can Customizing Linux CVM Configurations or Customizing Windows CVM Configurations.
2. Tencent Cloud CVM should be in the same VPC network as TencentDB for CTSDB 3.0 instance.
3. Configure **outbound rules** in the security group of Tencent Cloud CVM. Add the IP and port of TencentDB for CTSDB 3.0 to the outbound rules. Configure **inbound rules** in the security group of TencentDB for CTSDB 3.0 and add the IP and port of the CVM to the inbound rules. For operation details, see Security Group.

Downloading the influx CLI Client

1. Download the influxdb-1.8.10_linux_amd64.tar.gz compressed package and upload it to the Linux server.
2. Execute `tar xvfz influxdb-1.8.10_linux_amd64.tar.gz` to decompress the compressed package.

Connecting to the Database

Enter the influx CLI path and execute the following command to connect to the TencentDB for CTSDB 3.0 instance.

```
./influx -host <DB_HOST> -port <DB_PORT> -username <USERNAME> -password <PASSWORD>
```

-username: a created user account.
-password: password corresponding to the user account.
-host: access address of the instance. Configure it as the private network access address of TencentDB for InfluxDB version.
-port: network port. The VPC network uses 8086.
The execution example is as follows:

```
./influx -host 10.0.1.7 -port 8086 -username ctsdbi-m35uo1e8 -password test@123
```

Using the Database

You can directly use database language to create databases, manage databases, and write data.

1. Creating a database

Execute the following statement to create a time-series database named `time_series_test_db1` with permanent data retention:

`CREATE DATABASE time_series_test_db1` .

Execute the following statement to create a time-series database named `time_series_test_db2` , which enables data expiration and sets the data retention period to 30 days:

`CREATE DATABASE time_series_test_db2 WITH DURATION 30d` .

To query the created database, execute `show databases` .

2. Writing data to the database

No.	Execution Steps	Execution Statements	Returned Information
1	Designating a database	`use time_series_test_db`	`Using database time_series_test_db`
2	Inserting data	`INSERT test_ctsdb,cap_id=king value=2`	-

3	Querying data	`show measurements`	`name: measurements`
			`name`
			`----`
			`test_ctsdb`

For more data writing methods, see Download and write the data to InfluxDB. Next, you can use various query statements to query the required time series data. For specific query syntax, see InfluxQL Compatibility.