

Database Audit

Getting Started

Product Documentation



Copyright Notice

©2013-2019 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice



All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Contents

Getting Started

Enabling TencentDB for MySQL Audit

Enabling TDSQL-C for MySQL Audit

Enabling TencentDB for MongoDB Audit

SQL Audit Rule

Getting Started

Enabling TencentDB for MySQL Audit

Last updated : 2022-07-11 15:02:23

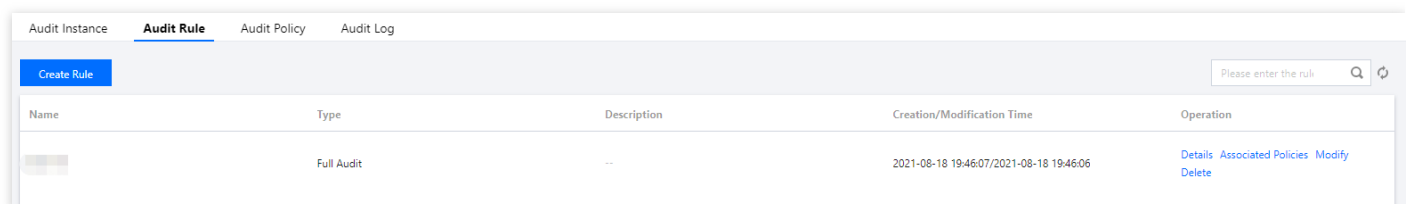
Tencent Cloud provides database audit capabilities for TencentDB for MySQL, which can record accesses to databases and executions of SQL statements to help you manage risks and improve the database security.

Note :

Database Audit currently supports TencentDB for MySQL 5.6, 5.7, and 8.0 (two-node and three-node) instances but not TencentDB for MySQL 5.5 or single-node instances.

Creating Audit Rule

1. Log in to the [TencentDB for MySQL console](#), select **Database Audit** on the left sidebar, select a region at the top, and click the **Audit Rule** tab.
2. On the **Audit Rule** tab, click **Create Rule**.



Name	Type	Description	Creation/Modification Time	Operation
	Full Audit	--	2021-08-18 19:46:07/2021-08-18 19:46:06	Details Associated Policies Modify Delete

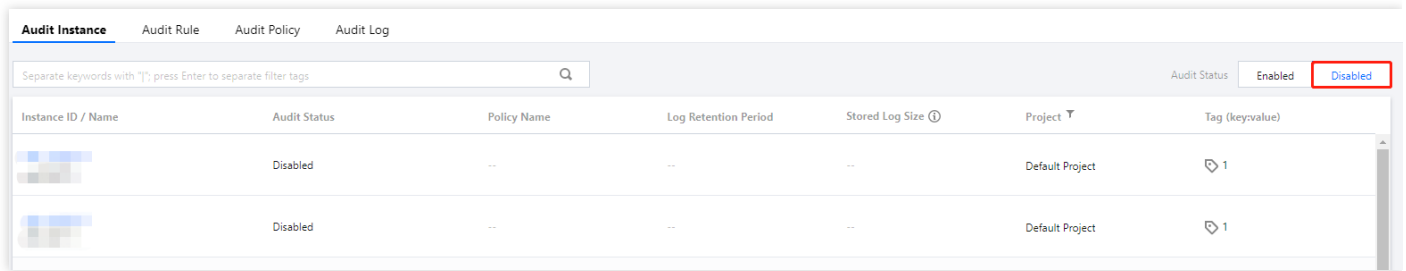
3. On the **Create Audit Rule** page, enter the rule name and description and click **Next**.
4. On the **Set Parameters** page, select the required audit mode and parameters and click **Save**.

Note :

- After the rule is created successfully, it must be associated with an audit policy before it can take effect.
- For use instructions of SQL audit rules, see [SQL Audit Rule](#).

Enabling SQL Audit Service

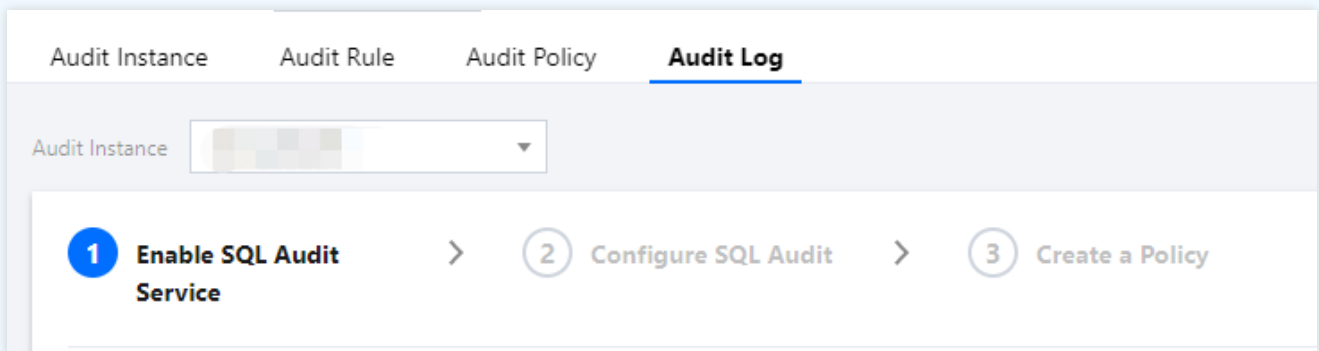
1. Log in to the [TencentDB for MySQL console](#), select **Database Audit** on the left sidebar, select a region at the top, click the **Audit Instance** tab, and click **Disabled** to filter instances whose audit is disabled.



Instance ID / Name	Audit Status	Policy Name	Log Retention Period	Stored Log Size	Project	Tag (key:value)
[blurred]	Disabled	--	--	--	Default Project	1
[blurred]	Disabled	--	--	--	Default Project	1

Note :

Alternatively, in **Audit Instance** on the **Audit Log** tab, directly search for instances whose audit is disabled and then enable audit.



2. On the **Audit Instance** tab, click the ID of the target instance to enter the enablement page, indicate your consent to the agreement, and click **Next**.
3. On the **Configure SQL Audit** page, select the audit log retention period and click **Next**.

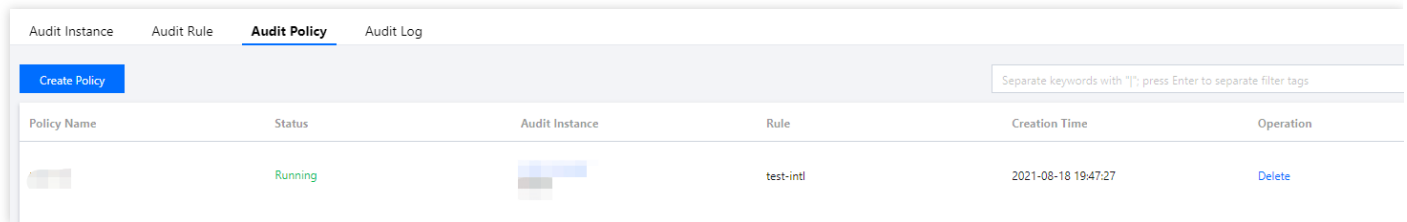
Note :

- You can select 7 days, 30 days, 3 months, 6 months, 1 year, 3 years, or 5 years as the audit log retention period. You can also modify it in the console after enabling audit. For more information, see [Modifying Log Retention Period](#).
- In order to meet the security compliance requirements for the retention period of SQL logs, we recommend you select 180 days or above.

4. On the **Create a Policy** page, set the policy name, select a created [audit rule](#), and click **Create a Policy**.

Creating Audit Policy

1. Log in to the [TencentDB for MySQL console](#), select **Database Audit** on the left sidebar, select a region at the top, and click the **Audit Policy** tab.
2. On the **Audit Policy** tab, click **Create Policy**.



Policy Name	Status	Audit Instance	Rule	Creation Time	Operation
	Running		test-intl	2021-08-18 19:47:27	Delete

3. In the pop-up window, set the policy name, select a created [audit rule](#), and click **OK**.

Viewing Audit Log

After enabling audit, you can view SQL audit logs on the **Audit Log** tab. For more information, see [Viewing Audit Log](#).

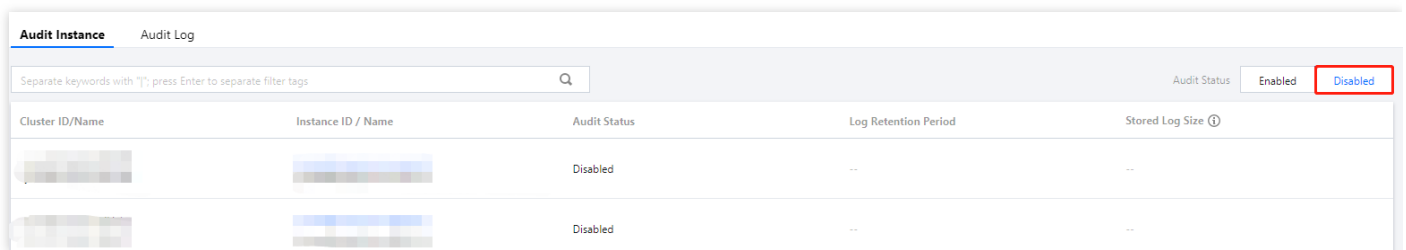
Enabling TDSQL-C for MySQL Audit

Last updated : 2022-08-18 14:15:58

Tencent Cloud provides database audit capabilities for TDSQL-C for MySQL, which can record accesses to databases and executions of SQL statements to help you manage risks and improve the database security.

Enabling SQL Audit Service

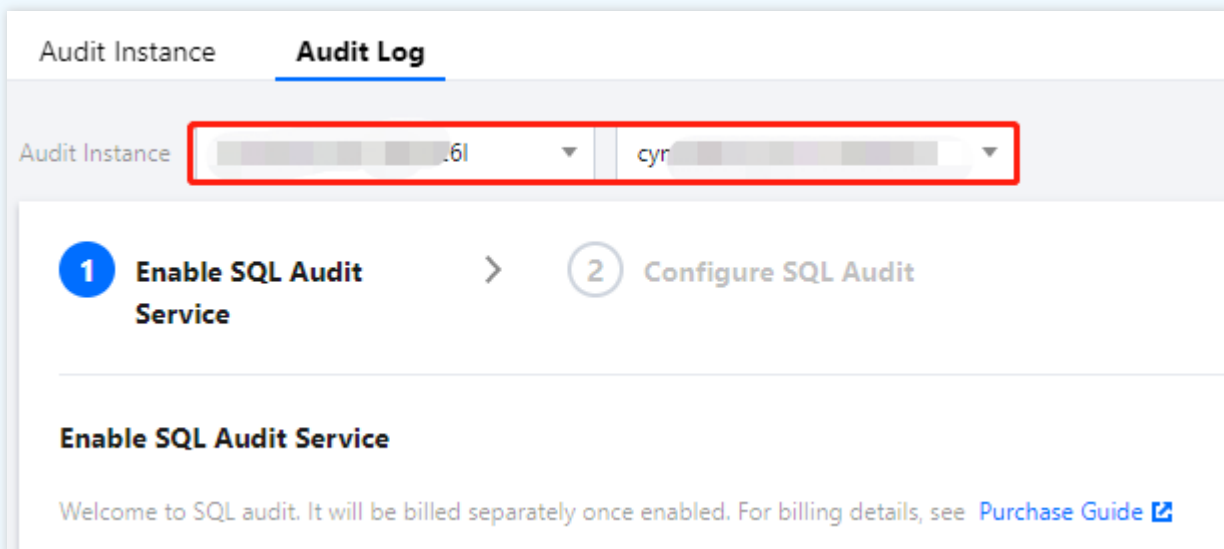
1. Log in to the [TDSQL-C for MySQL console](#), select **Database Audit** on the left sidebar, select a region at the top, click the **Audit Instance** tab, and click **Disabled** to filter instances whose audit is disabled.



Cluster ID/Name	Instance ID / Name	Audit Status	Log Retention Period	Stored Log Size ①
[blurred]	[blurred]	Disabled	--	--
[blurred]	[blurred]	Disabled	--	--

Note :

Alternatively, in **Audit Instance** on the **Audit Log** tab, directly search for instances whose audit is disabled and then enable audit.



Audit Instance **Audit Log**

Audit Instance [dropdown] [dropdown]

1 Enable SQL Audit Service > **2 Configure SQL Audit**

Enable SQL Audit Service

Welcome to SQL audit. It will be billed separately once enabled. For billing details, see [Purchase Guide](#)

2. On the **Audit Instance** tab, click the ID of the target instance to enter the enablement page, select a log retention period, and click **Enable**.

Note :

- You can select 7 days, 30 days, 3 months, 6 months, 1 year, 3 years, or 5 years as the audit log retention period. You can also modify it in the console after enabling audit. For more information, see [Modifying Log Retention Period](#).
- In order to meet the security compliance requirements for the retention period of SQL logs, we recommend you select 180 days or above.

Viewing Audit Log

After enabling audit, you can view SQL audit logs on the **Audit Log** tab. For more information, see [Viewing Audit Log](#).

Enabling TencentDB for MongoDB Audit

Last updated : 2022-08-18 14:27:16

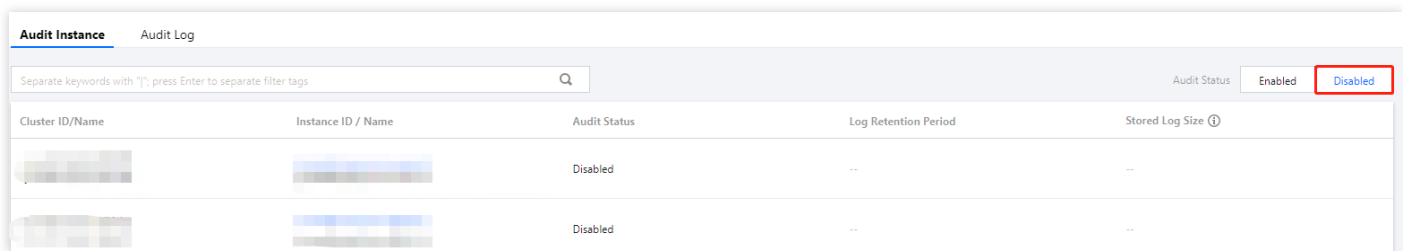
Tencent Cloud provides database audit capabilities for TencentDB for MongoDB, which can record accesses to databases and executions of SQL statements to help you manage risks and improve the database security.

Note :

Database Audit currently supports TencentDB for MongoDB 4.0.

Enabling SQL Audit Service

1. Log in to the [TencentDB for MongoDB console](#), select **Database Audit** on the left sidebar, select a region at the top, click the **Audit Instance** tab, and click **Disabled** to filter instances whose audit is disabled.

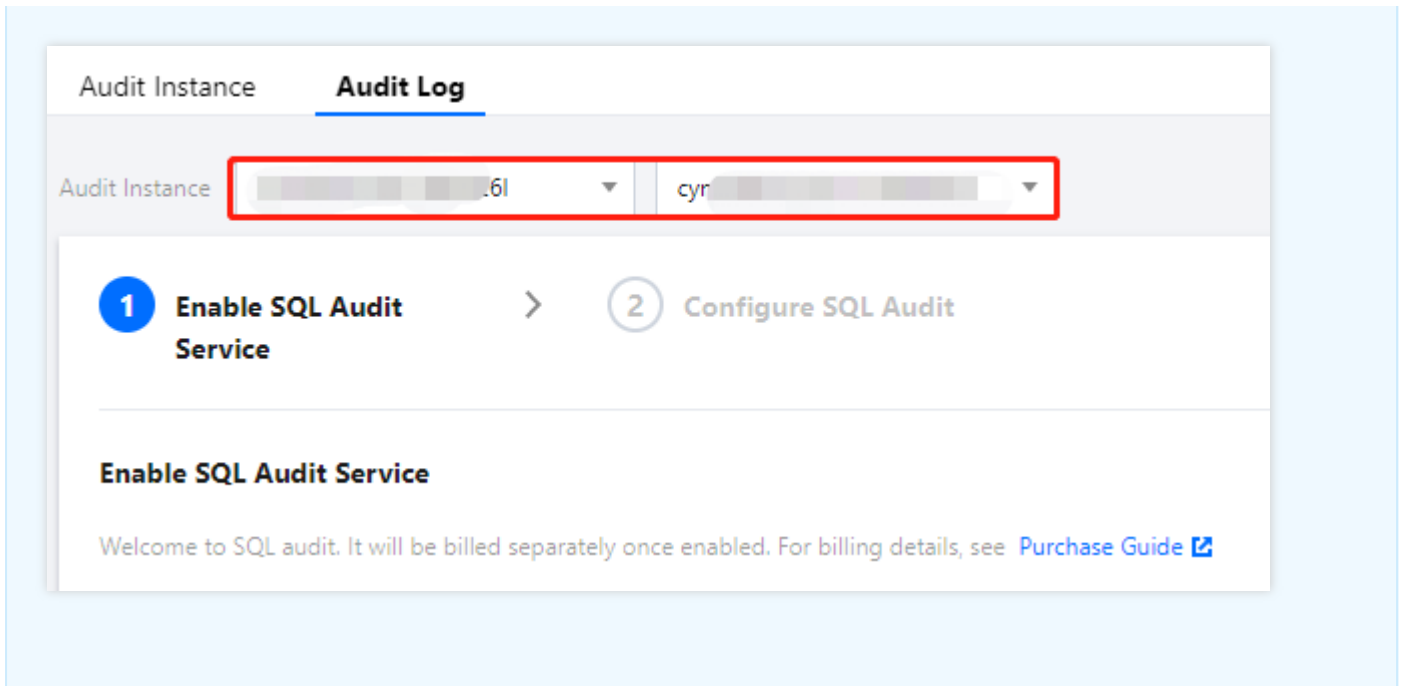


The screenshot shows the 'Audit Instance' tab in the TencentDB for MongoDB console. At the top right, there are two buttons for 'Audit Status': 'Enabled' and 'Disabled'. The 'Disabled' button is highlighted with a red border. Below the buttons is a table with the following columns: 'Cluster ID/Name', 'Instance ID / Name', 'Audit Status', 'Log Retention Period', and 'Stored Log Size'. The table contains two rows, both with 'Disabled' in the 'Audit Status' column.

Cluster ID/Name	Instance ID / Name	Audit Status	Log Retention Period	Stored Log Size
[blurred]	[blurred]	Disabled	--	--
[blurred]	[blurred]	Disabled	--	--

Note :

Alternatively, in **Audit Instance** on the **Audit Log** tab, directly search for instances whose audit is disabled and then enable audit.



2. On the **Audit Instance** tab, click the ID of the target instance to enter the enablement page, select a log retention period, and click **Enable**.

Note :

- After audit is enabled for TencentDB for MongoDB, the rule is full audit.
- You can select 7 days, 30 days, 3 months, 6 months, 1 year, 3 years, or 5 years as the audit log retention period. You can also modify it in the console after enabling audit. For more information, see [Modifying Log Retention Period](#).
- In order to meet the security compliance requirements for the retention period of SQL logs, we recommend you select 180 days or above.

Viewing Audit Log

After enabling audit, you can view SQL audit logs on the **Audit Log** tab. For more information, see [Viewing Audit Log](#).

SQL Audit Rule

Last updated : 2022-07-11 15:02:24

Rule Content

The following types are supported:

Client IP, database account, and database name. Supported operators are **include and exclude**.

The full audit rule is a special rule, and all statements will be audited after it is enabled.

Rule Operation

- The different fields in each rule add the conditions; that is, the relationship between field and condition is "AND" (&&).
- The relationship between rules is "OR" (||).
You can specify one or more audit rules for an instance, and as long as any one of them is met, the instance should be audited. For example, if rule A specifies that only operations of user1 with an execution time ≥ 1 second need to be audited, and rule B audits the statements of user1 with an execution time < 1 second, then all statements of user1 need to be audited eventually.

Rule Description

Client IP, database account, and database name support **include and exclude** operators, and only one operator can be set at a time.

Database name description

If a statement is of the following table object type:

```
SQLCOM_SELECT, SQLCOM_CREATE_TABLE, SQLCOM_CREATE_INDEX, SQLCOM_ALTER_TABLE,  
SQLCOM_UPDATE, SQLCOM_INSERT, SQLCOM_INSERT_SELECT, SQLCOM_DELETE, SQLCOM_TRUNCAT  
E, SQLCOM_DROP_TABLE
```

Then, for this type of operation, the name of the database actually manipulated by the statement shall prevail. For example, if the currently used database is "db3", and the statement is:

```
select *from db1.test,db2.test;
```

Then, "db1" and "db2" will be used as the target database for rule judgment. If the rule is configured to audit "db1", "db1" will be audited, and if the rule is configured to audit "db3", "db3" will not be audited.

For statements not of the above table object type, the currently used database will be used as the target database for rule judgment. For example, if the currently used database is "db1", and the executed statement is `show databases`, then "db1" will be used as the target database for judgment. If the rule is configured to audit "db1", "db1" will be audited.

Notes

You can write only one value for "include" and "exclude" operator. If you write multiple values, they will be treated as a string, resulting in incorrect matching.