

Database Audit Getting Started Product Documentation





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Getting Started Enabling TencentDB for MySQL Audit

Last updated : 2023-12-21 17:16:24

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.

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.

Audit Instance	Audit Rule Audit Policy	Audit Log		
Create Rule				
Name		Туре	Description	Creation/Modification Time
		Full Audit		2021-08-18 19:46:07/2021-08-18 19:46:06

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.



Audit Instance Audit Rule Audit Policy Audit Log								
Separate keywords with "]"; press Enter to separate filter tags		Q						
Instance ID / Name	Audit Status	Policy Name	Log Retention Period	Stored Log Size	Project Y			
201	Disabled				Default Project			
8.0T	Disabled				Default Project			

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 Rule	Audit Policy	Audit Log		
Audit Instance		v			
1 Enable SQI Service	L Audit	> 2 Cor	nfigure SQL Audit	>	3 Create a Policy

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**.



Audit Instance	Audit Rule	Audit Policy	Audit Log			
Create Policy						Separate keywords with " "; pre
Policy Name		Status		Audit Instance	Rule	Creation Time
		Running		10 C	test-intl	2021-08-18 19:47:27

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 : 2023-12-21 17:16:38

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.

Audit Instance Audit Log								
Separate keywords with "[]: press Enter to separate filter tags		Q		Audit Status Enabled Disabled				
Cluster ID/Name	Instance ID / Name	Audit Status	Log Retention Period	Stored Log Size 🛈				
	-	Disabled						
		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	.61	▼ cyr
1 Enable SQ Service	L Audit >	2 Configure SQL Audit
Enable SQL Aud	it Service	
Welcome to SQL au	dit. It will be billed separa	ately 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

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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.

Audit Instance Audit Log				
Separate keywords with " "; press Ente	er to separate filter tags	Q,		
Cluster ID/Name	Instance ID / Name	Audit Status	Log Retention Period	Stored
		Disabled		
		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

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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_TRUNCATE,

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.