

TencentDB for MongoDB

Troubleshooting

Product Documentation



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Troubleshooting

Increased Slow Queries

Last updated : 2022-01-25 19:08:31

Error Description

Slow query is the most common performance problem of MongoDB. You can use the slow query management and slow log query features in the [console](#) for troubleshooting.

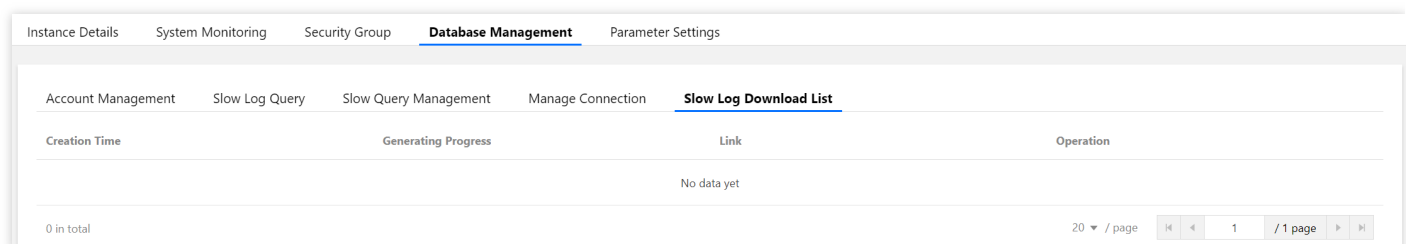
Cause

- The query is performed with the `$lookup` operator but doesn't use indexes or uses indexes that don't support the query; therefore, it is necessary to traverse the entire database for a complete scan, which eventually leads to a very low search efficiency.
- Some documents in your collection have many large array fields that are time-consuming to search and index, causing a high system load.

Troubleshooting Procedure

Log in to the [TencentDB for MongoDB console](#) and click an instance ID to enter the instance management page.

- Method 1: select **Database Management** > **Slow Query Management**, and the list will display the requests being executed by the current instance (including requests of secondary nodes). You can click **Batch Kill** to kill slow query statements.



The screenshot shows the TencentDB for MongoDB console interface. The top navigation bar includes 'Instance Details', 'System Monitoring', 'Security Group', 'Database Management' (selected), and 'Parameter Settings'. Below this, a sub-navigation bar includes 'Account Management', 'Slow Log Query', 'Slow Query Management', 'Manage Connection', and 'Slow Log Download List' (selected). The main content area displays a table with columns: 'Creation Time', 'Generating Progress', 'Link', and 'Operation'. The table is currently empty, showing 'No data yet'. At the bottom, there is a pagination control showing '0 in total' and '20 / page'.

- Method 2: select the **Slow Log Query** tab to view and analyze slow logs. The system logs operations executed for more than 100 milliseconds and retains slow logs for 7 days. Currently, slow logs cannot be exported. If needed, contact the aftersales service or [submit a ticket](#) for assistance.

If slow queries are heaping too fast, you are recommended to optimize your business based on the slow query

analysis result. If the problem persists, contact the aftersales service or [submit a ticket](#) for assistance.

Instance Details System Monitoring Security Group **Database Management** Parameter Settings

Account Management **Slow Log Query** Slow Query Management Manage Connection Slow Log Download List

i The system records the operations that have an execution time of more than 100 ms. The slow log is retained for 7 days, and the time range of a single query cannot exceed 1 day. The query is limited to the first 10,000 slow logs. If the query result is slow, please narrow the query time range. ✕

Query Method **Query statistics** Query details

Query Time Period 2022-01-17 22:00:34 ~ 2022-01-18 22:00:34 Time Consumed **>=100ms** **Query**

Query Method	Sample Command	Average Execution Time (ms)	Total
No data yet			

0 in total 20 / page 1 / 1 page

Number of Connections Exceeding Limit

Last updated : 2022-03-23 17:28:46

Issue Description

If the number of connections exceeds the upper limit, you can use the connection management and restart features in the [console](#) and optimize the service for troubleshooting.

Cause

- There are connection leaks, improper client coding, unreasonable connection pool configuration, or many unreleased connections.
- There is a large number of concurrent application requests, and the configured upper limit of connections is insufficient, so the current database specification cannot sustain such requests.

Troubleshooting Procedure

Option 1. Increase the upper limit

1. Log in to the [TencentDB for MongoDB console](#) and click an instance ID to enter the instance management page.
2. Select **Database Management** > **Manage Connection** and view the source IPs and number of connections for service troubleshooting.

Note :

- If the number of connections reaches or exceeds 80% of the upper limit and affects the establishment of new connections, you can click **Increase Connections** in the console to increase the maximum number of connections to 150% of the original limit for the next 6 hours.
- If the problem persists, contact the aftersales service or [submit a ticket](#) for assistance.

Instance Details System Monitoring Security Group **Database Management** Parameter Settings

Account Management Slow Log Query Slow Query Management **Manage Connection** Slow Log Download List

The system will record the client IP and connections of the current instance. You can manually release corresponding connection requests. After the percentage of current connections exceeds 80% of the max connections, you can temporarily increase the max connections to 3000 of original limit. You can do so for only 4 times per month. If you still have questions, please see [Suggestions for Handling Performance Problems](#)

Real-time connections: 42 Connection Utilization: 2% Increase Connections Max connections: 2000 Remaining: 0 hours Refresh Restart

Client IP	Connections
Tencent Cloud	12

Option 2. Restart the instance

1. Log in to the [TencentDB for MongoDB console](#) and click an instance ID to enter the instance management page.
2. Select **Database Management** > **Manage Connection**. You can click **Restart** on the right to restart the mongos instance to fix the problem.

Note :

- Replica sets on v4.0 don't have mongos instances.
- Restarting the mongod instance is highly risky and will cause a momentary disconnection, during which if data is written, rollback may be triggered, leading to data loss. Therefore, the restart feature is not enabled by default. If you need to enable it, contact the aftersales service or [submit a ticket](#) for assistance.

Restart MongoDB ✕

1 instance selected [View Details](#) ▾

Are you sure you want to restart selected MongoDB now?

During the restart, the server cannot provide services. Please be prepared to avoid interruptions.

As 4.0 replica set instance does not have Mongos, restarting Mongos will not take effect.

OK Close

Option 3. Optimize the service

You can troubleshoot the service for optimization.