TencentDB for MySQL

Release Notes and Announcements

Product Documentation

Contents

Release Notes and Announcements

Release Notes

Last updated：2024-06-18 15:34:31

May 2024

Product Name	Product Description	Release Time	Relevant Documentation
Database Audit Optimization	TencentDB for MySQL has made the following optimizations for database auditing. Optimized the query time column in audit logs page, and added quick time query. Added fields "Table Name", "Transaction ID" in audit logs.	May 16, 2024	View Audit Logs
Support for Multiple Disaster Recovery	The primary instance of TencentDB for MySQL dual node and three-node architectures supports mounting multiple disaster recovery instances, helping to enhance business continuity service capability and data reliability.	May 15, 2024	Manage Disaster Recovery Instances

April 2024

Product Name	Product Description	Release Time	Relevant Documentation
TXSQL Kernel Feature Updates	TencentDB for MySQL 8.0 kernel version update 20230630, enhancing database performance and stability: Supports Nonblocking DDL feature. Supports xa commit to record the maximum gts instance TP/AP load statistics in relay log. Supports selecting Innodb temporary tables for parallel query of worker thread sharing. Supports using partition tables as parallel tables for parallel queries. Supports the flashback version query feature. Supports persistence for flashback query.	April 23, 2024	TXSQL Kernel Updates

	Supports virtual indexes. Supports the range/list secondary partition feature. Supports the automatic relay log recovery feature. Supports the default algorithm for DDL, with options INPLACE/INSTANT. Supports Fast Query Cache. Supports the conversion of partition tables from MyISAM to InnoDB.		

March 2024

Product Name	Product Description	Release Time	Relevant Documentation
Supports Cluster Edition	TencentDB for MySQL Cluster Edition is undergoing gray release, providing multiple specific capabilities of the Cluster Edition, including automatic failover, any standby node (read-only node) switched to a primary node (read-write node), standby node read-only, on-demand node addition or deletion, multi-AZ disaster recovery, node granularity monitoring, cluster node topology management, etc., to help users cope with complex business scenarios.	March 26, 2024	Overview of MySQL Cluster Edition
TXSQL Kernel Feature Updates	TencentDB for MySQL 5.7 kernel version update 20230601, enhancing database performance and stability: Supports persistence for flashback query. Supports drop table force, enabling drop innodb metadata. Supports Parallel Copy DDL. Supports limit in subquery. Supports the conversion of partition tables from MyISAM to InnoDB.	March 19, 2024	TXSQL Kernel Updates

February 2024

Product Name	Product Description	Release Time	Relevant Documentation

New General Purpose Instance Specifications	TencentDB for MySQL dual node/three-node instances introduce general purpose specifications: 24 cores 48,000 MB, and 48 cores 96,000 MB.	February 27, 2024	Database Instance Specifications
Supports remote CLS.	TencentDB for MySQL supports shipping slow logs and error logs to remote Cloud Log Service (CLS).	February 26, 2024	Log Shipping

November 2023

Product Name	Product Description	Release Time	Relevant Documentation
Supports setting data validation sensitivity.	In the scenario where configuration adjustments on the TencentDB for MySQL primary instance trigger migration configuration change, a new capability to set data validation sensitivity is added, allowing for the control over the validation duration and its performance impact.	November 27, 2023	Adjust Instance Specification

October 2023

Product Name	Product Description	Release Time	Relevant Documentation
Support for Log Shipping	TencentDB for MySQL supports the shipping of slow logs and error logs, which achieves rapid monitoring and swift identification of business issues by collecting and shipping corresponding log data to CLS.	October 18, 2023	Log Shipping
Supports upgrading from MySQL 5.7 to 8.0.	TencentDB for MySQL fully supports upgrading from MySQL 5.7 to 8.0. MySQL 8.0 achieves significant improvements and enhancements in both performance and features, especially in high concurrency and large data volume scenarios, providing stronger system performance and stability.	October 10, 2023	Upgrade from MySQL 5.7 to MySQL 8.0
New Support for Single-node in Frankfurt	TencentDB for MySQL single node instance is now supported in the Frankfurt region, offering extremely high cost-performance ratio, with support for up to 30T of storage space.	October 10, 2023	Single Node

September 2023

Product Name	Product Description	Release Time	Relevant Documentation
Database Audit Optimization	TencentDB for MySQL has made the following optimizations for database auditing. Supports binding multiple rule templates to an instance. The relationship between rule templates and instances has been changed from "Initialization" to "Strong Binding", meaning that modifications to a rule template's content will immediately affect the audit rules applied to instances bound to that template. Supports viewing the rule templates bound to each instance, the audit rules hit by each audit log, and the instances associated with each rule template. Integrates with event bus and TCOP, and supports event alarms for high, medium, and low-risk levels. Rule audit, setting of risk levels and alarm policies and post-event alarms need to submit tickets for usage.	September 25, 2023	Activate Audit Service Create New Rule Template Configure Post-event Alarms

August 2023

Product Name	Product Description	Release Time	Relevant Documentation
The database proxy supports the transaction-level connection pool.	The TencentDB for MySQL database proxy supports the transaction-level connection pool feature, which helps enhancing the database's concurrency performance and resource utilization rate, avoiding competition and conflict among multiple transactions, and improving the concurrency performance and reliability of transaction processing.	August 25, 2023	Connection Pool Overview
Optimize Instance Detail Page	TencentDB for MySQL has optimized the instance detail page, supporting viewing instance health	August 16, 2023	View Instance Health Status

	status, abnormal alarms, and adding configuration displays in terms of availability, performance, and security.		
Optimize Database Audit	TencentDB for MySQL has optimized the database audit log page, with SQL command details supporting multi-mode search. The matching items include "Including, excluding", "OR, AND", "segmentation, Wildcard".	August 9, 2023	View Audit Logs

July 2023

Update	Description	Release Date	Documentation
Supported binlog encryption	TencentDB for MySQL supports binlog encryption, enhancing security and reliability of data.	2023-07-17	Backup Encryption
Optimized the database audit	TencentDB for MySQL has optimized the audit log page and added multiple search modes,such as fuzzy/exact/forward/reverse/simple/complex search. The units of the audit log fields "Execution Time" and "CPU Time" in the console and downloaded audit log files are all adjusted to microseconds.	7/12/2023	Viewing Audit Log

May 2023

Update	Description	Release Date	Documentation
Supported elastic performance management	Elastic performance management is fully launched for TencentDB for MySQL. It supports manual expansion and automatic scaling to better alleviate the performance pressure caused by sudden requests and adapt to business peaks traffic, ensuring the stability of online business.	6/25/2023	Elastic Performance Management
Launched a new version of database audit	The new audit service of TencentDB for MySQL is in beta test. It supports both full and rule-based audit. The service can protect your data from tampering and ensure its integrity and reliability during collection, transfer, and storage.	5/15/2023	Enabling Audit Service

Supported creating a cross-AZ read-only group	TencentDB for MySQL supports creating read-only (RO) groups across AZs, which means that the RO group instance and the source instance can be deployed in different AZs. In this way, the disaster recovery capability can be enhanced.	5/4/2023	Managing the RO Group of Read-Only Instance

March 2023

Update	Description	Release Date	Documentation
Launched a new purchase page	TencentDB for MySQL has released a new version of the purchase page, which supports fast import of configurations and faster filtering of specifications. This makes it easier for you to quickly adjust and purchase the specifications based on existing configurations.	3/16/2023	Purchase Methods

February 2023

Update	Description	Release Date	Documentation
Supported setting the backup cycle by month	TencentDB for MySQL allows you to configure automatic backup by week or month.	2/28/2023	Backing up Databases
Supported transition-to-cold storage	TencentDB for MySQL allows you to configure transition-to-cold storage policies to transition the storage types of generated backup files and reduce the backup storage costs.	2/14/2023	Configuring Transition-to-Cold Storage

December 2022

Update	Description	Release Date	Documentation
Supported parallel	TencentDB for MySQL supports parallel query,	12/22/2022	Overview

query	which schedules and leverages multiple compute resources to greatly shorten the response time of large queries.		

November 2022

Update	Description	Release Date	Documentation
Launched a new version of database proxy	TencentDB for MySQL has released a new version of database proxy. It provides powerful features such as automatic read/write separation, transaction split, connection pool, and disconnection prevention. It also supports mounting read-only instances across AZs and enabling multiple database proxy access addresses to meet the requirements in different business scenarios.	11/2/2022	Overview

October 2022

Update	Description	Release Date	Documentation
Supported backup encryption	TencentDB for MySQL supports backup encryption to help improve the data security. Combined with KMS to encrypt backup files, it helps prevent accidental backup leakage from causing security incidents.	10/31/2022	Backup Encryption
Supported the single-node architecture	TencentDB for MySQL supports single-node instance of cloud disk edition, which offers a storage space of up to 30 TB and is extremely cost-effective and suitable for diversified scenarios such as testing, development, and learning.	10/8/2022	Single-Node Instances (Formerly Basic Edition and Cloud Disk Edition)

September 2022

Update	Description	Release	Documentation

		Date	
Supported parameter modification for read-only instances	TencentDB for MySQL supports modifying read-only instance parameters to meet the parameter configuration needs in different business scenarios.	9/19/2022	Setting Instance Parameters
Supported cross-region backup	TencentDB for MySQL supports cross-region backup to ensure the high availability, security, and recoverability of data and implement various features, such as remote backup and restoration, remote disaster recovery, long-term data archive, and regulatory compliance.	9/9/2022	Cross-Region Backup

July 2022

Update	Description	Release Date	Documentation
Supported password complexity	TencentDB for MySQL allows you to set the password complexity to improve the strength of database access passwords and ensure the database security.	7/20/2022	Setting Password Complexity

June 2022

Update	Description	Release Date	Documentation
TencentDB for MySQL supported infrequent access storage	Tencent Cloud provides the infrequent access storage option for TencentDB for MySQL. You can select a suitable storage type based on your actual storage frequency to reduce audit costs.	6/30/2022	Database Audit Billing Overview
Supported SSL encryption	TencentDB for MySQL supports SSL encryption to create encrypted data transfer channels and thus improve the security and integrity of communication data.	6/27/2022	Setting SSL Encryption

April 2022

Update	Description	Release Date	Documentation
Supported intelligent parameter tuning	TencentDB for MySQL supports the intelligent parameter tuning feature to help you improve the database performance.	4/25/2022	Intelligent Parameter Tuning
Supported the TXRocks engine	TencentDB for MySQL supports the TXRocks transactional storage engine, which has a performance comparable to that of InnoDB but requires a much smaller storage space. It is suitable for businesses with a large data volume and high requirements for the transactional read/write performance.	4/18/2022	Overview
Supported archive backup	You can use the archive backup feature to back up data by scheduling two cycles, which reduces the costs compared with a single-cycle backup policy.	4/2/2022	Backing up Database

February 2022

Update	Description	Release Date	Documentation
Supported connection pool for the database proxy	The TencentDB for MySQL proxy supports the session-level connection pool. It can effectively solve the problem of excessively high database instance loads caused by frequent establishment of new connections in non-persistent connection businesses.	2022-02	Connection Pool Overview
Optimized and updated the database proxy feature	TencentDB for MySQL's database proxy feature is optimized and updated. It can now support the upgrade of proxy kernel minor version, network switch, and reconfigurations, which delivers a higher convenience and performance.	2022-02	Upgrading Kernel Minor Version of Database Proxy Switching Database Proxy Network Adjusting Database Proxy Configuration

December 2021

Update	Description	Release Date	Documentation
Optimized RO group delay settings	RO delay configuration in TencentDB for MySQL is moved from instance configuration to RO group configuration, so that delay and removal policies configured in the same RO group will not conflict with each other. Moreover, RO instance delay management is simplified. When an RO group is used to unify IP access, no inconsistency between the accessed and expected data will occur due to a delayed RO instance.	2021-12	Managing the Delayed Replication of Read-Only Instance
Supported AZ migration	TencentDB for MySQL launched AZ Migration It can implement nearby access and resource expansion for your business and better utilize resources in different AZs in the same region.	2021-12	Migrating AZ
Parameter Template and Instance Purchase Process Optimization	TencentDB for MySQL optimizes parameter-related features and instance delivery process, including creating and applying parameter templates, comparing parameters, modifying modifiable parameters, and purchasing instances.	2021-12	Parameter Template and Instance Purchase Process Optimization

August 2021

Update	Description	Release Date	Documentation
Displayed project group information in bills in MySQL audit	Exported bills display the project group information of database instances for you to categorize bills and collect statistics by project group.	2021-08	Bill Overview
Displayed the instance name in MySQL audit	The original “Instance ID” column in the instance list is changed to “Instance ID/Name” to add the instance name for locating instances more quickly.	2021-08	-
Supported seven days as the log	When audit is newly enabled, you can set the log retention period to seven days. This is suitable for	2021-08	Modifying Audit Service

retention period in MySQL audit	scenarios where you want to observe execution conditions and analyze discovered database problems for a short time. For instances with audit already enabled, you can also change the log retention period to seven days.		
Optimized search in MySQL audit	Fuzzy search is supported, multiple SQL types can be used together for filtering, and the 24-hour limit on the search time period is removed.	2021-08	Viewing Audit Log

July 2021

Update	Description	Release Date	Documentation
Supported QuickChange	TencentDB for MySQL now supports QuickChange. If the physical machine where the instance is deployed has sufficient resources (aka local resources), you can adjust instance configuration in the QuickChange mode without migrating data. As it takes less time for preparation, the overall adjustment process becomes faster.	2021-07	Adjusting Database Instance Specifications

April 2021

Update	Description	Release Date	Documentation
Supported database proxy	Database proxy is a network proxy service between the TencentDB service and the application service. It is used to proxy all requests when the application service accesses the database. The database proxy access address is independent of the original database access address. Requests proxied at the proxy address are all relayed through the proxy cluster to access the source and replica nodes of the database. Read/Write separation is implemented, so that read requests are forwarded to read-only instances, which lowers the load of the source database.	2021-04	Database Proxy Overview

Notice on Binlog Taking up the Disk Space	As the speed of writing to binlog affects database performance, TencentDB for MySQL now migrates the binlog files to high-performance SSDs (i.e., instance disk space) in order to improve database performance and stability.	2021-04	Binlog Will Take up Disk Space
Local binlog retention period can be customized	You can now customize the retention period of local binlog files in the TencentDB for MySQL console.	2021-04	Configuring Local Binlog Retention Policy

March 2021

Update	Description	Release Date	Documentation
Instance architectures have been renamed	TencentDB for MySQL now supports three types of architectures including single-node (formerly Basic Edition), two-node (formerly High-Availability Edition), and three-node (formerly Finance Edition), and three resource isolation policies including basic, general, and dedicated policies. Renaming won't change any features of these architectures.	2021-03	Overview Resource Isolation Policy
Read-only instances support exclusive private network addresses	You can now configure a custom and exclusive private network address (IP and port) for a read-only instance.	2021-03	Creating Read-Only Instance

December 2020

Update	Description	Release Date	Documentation
Supported delayed replication for read-only instances	TencentDB for MySQL allows you to set delayed replication for read-only instances and enable/disable replication. You can set delayed replication (i.e., delay between a read-only instance and its source instance) and select to replay by flashbacked position or global transaction identifier	2020-12	Managing the Delayed Replication of Read-Only Instance

	(GTID) during the delay to efficiently roll back data and fix failures.		

November 2020

Update	Description	Release Date	Documentation
Instances can be cloned	You can now restore a TencentDB for MySQL instance to any point in time within the log backup retention period or from a specific physical backup set by cloning.	2020-11	Cloning Instances

October 2020

Update	Description	Release Date	Documentation
The purchase page is optimized	You can now specify alarm policies, parameter templates, and bind an instance with security groups of other projects on the purchase page.	2020-10	Creating MySQL Instance
TDE is supported for MySQL 8.0	TencentDB for MySQL 8.0 now supports Transparent Data Encryption (TDE).	2020-10	Enabling Transparent Data Encryption

August 2020

Update	Description	Release Date	Documentation
Supported MySQL 8.0	TencentDB for MySQL 8.0 is now supported. Combined with a complete set of management services and the TXSQL kernel, TencentDB for MySQL provides an enterprise-grade database service that is more stable and quicker to deploy. It applies to various use cases and helps you upgrade your business.	2020-08	Database Versions

July 2020

Update	Description	Release Date	Documentation
Parameter templates can be applied to instances	TencentDB for MySQL supports modifying parameters of multiple instances at the same time through parameter templates. You can perform a parameter modification task during the custom time window, or cancel it.	2020-07	Setting Instance Parameters Managing Parameter Template
Supported transparent data encryption (TDE)	TencentDB for MySQL comes with the transparent data encryption (TDE) feature. Transparent encryption means that the data encryption and decryption are transparent to users. TDE supports real-time I/O encryption and decryption of data files. It encrypts data before it is written to disk, and decrypts data when it is read into memory from disk, which meets the compliance requirements of static data encryption.	2020-07	Enabling Transparent Data Encryption
Supported MySQL database audit	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.	2020-07	Enabling Audit Service

June 2020

Update	Description	Release Date	Documentation
Supported manual kernel minor version upgrade	TencentDB for MySQL supports manual kernel minor version upgrade. Upgrading adds new features, improves performance, and fixes issues.	2020-06	Upgrading Kernel Minor Version

April 2020

Update	Description	Release	Documentation

		Date	
One-source-two-replica High-Availability Edition is renamed as Finance Edition	The Finance Edition adopts a one-source-two-replica architecture (three nodes in total) and supports strong sync replication. It guarantees strong data consistency through real-time hot backup and provides finance-grade reliability and high availability.	2020-04	Overview
Repossession time for the old IP address can be customized	The repossession time of the old IP address can be customized between 0 and 168 hours when the network is switched. If the repossession time is set to 0 hours, the old IP address will be repossessed immediately after the network switch.	2020-04	Network Switch

January 2020

Update	Description	Release Date	Documentation
Supported TencentDB for DBbrain	TencentDB for DBbrain (DBbrain) is an intelligent database diagnosis and optimization product. It provides real-time database protection, locates causes of and offers solutions to database exceptions, and helps with exception prevention at the source.	2020-01	Overview
Slow log and error log details can now be queried	TencentDB for MySQL (excluding the Basic Edition) instances support operation log management. In the **Operation Log** tab, you can view the slow logs details, error logs details, and rollback logs of the instance and download slow logs.	2020-01	Operation Logs

December 2019

Update	Description	Release Date	Documentation
MySQL backup is now a paid service	TencentDB for MySQL will start charging for the usage of instance backup space exceeding the free tier. Improvements will be made for data	2019-12	Backup Space Billing

	compression, backup stability and availability. You can shorten retention periods and lower backup frequencies to reduce your backup capacity costs. You can shorten retention periods and lower backup frequencies to reduce your backup capacity costs.		

November 2019

Update	Description	Release Date	Documentation
Supported event alarming	By subscribing to events such as OOM, source-replica switch, read-only instance removal, and instance migration caused by server failure, you can now stay on top of your instance statuses.	2019-11	Alarm Policies (TCOP)

September 2019

Update	Description	Release Date	Documentation
Database backup page is available	We have released the TencentDB for MySQL database backup page. It is divided into two sections: overview and backup list. Backup trends and statistics can be viewed in the overview tab. Backup data details and log backups can be found in the backup list.	2019-09	Viewing Backup Space

May 2019

Update	Description	Release Date	Documentation
Automatic backups are fully upgraded to physical backup	The automatic backup feature of TencentDB for MySQL only supports physical backup. Existing automatic logical backups will be switched to physical backups. If you need logical backups, you	2019-05	Backing up Databases

	can use the manual backup feature in the TencentDB for MySQL console or call APIs.		
Nanjing Zone 1 is now available	TencentDB for MySQL is now available in Nanjing Zone 1. With this new AZ, TencentDB for MySQL is now available in two regions in East China: Shanghai and Nanjing.	2019-05	Regions and AZs

March 2019

Update	Description	Release Date	Documentation
Supported switching between VPCs	Switch from VPC A to VPC B: A single TencentDB instance can be switched from VPC A to VPC B.	2019-03	Network Switch

February 2019

Update	Description	Release Date	Documentation
Supported one-click connectivity check	A one-click connectivity check is now provided in the console to help you quickly locate internal and external connectivity problems and offer corresponding solutions.	2019-02	One-Click Connectivity Checker

June 2018

Update	Description	Release Date	Documentation
Supported database audit	Database audit can record the actions of TencentDB in real time. It carries out fine-grained audit on database operations, records and alerts such risky database behaviors as SQL injection and abnormal operation.	2018-06	Enabling Audit Service
Supported	TencentDB for MySQL Basic Edition adopts a	2018-06	Overview

purchasing Basic Edition instances	single-node deployment method with computation-storage separation. If a computing node fails, the system can switch to a healthy one for quick recovery. Premium cloud disks are used as the underlying storage media of the Basic Edition, which feature high quality, cost-effectiveness, stability, and performance, making them suitable for 90% of I/O scenarios.		
Supported network switch	Switching between the classic network and VPC and between subnets in the same VPC is now supported.	2018-06	Network Switch
Supported self-service connectivity check	You can now quickly check the connectivity status of your databases.	2018-06	One-Click Connectivity Checker
Supported 5-day self-service return and refund	TencentDB for MySQL allows you to return one monthly subscribed instance unconditionally within five (inclusive) days after purchase under each account.	2018-06	Refund
Supported downgrading and refunding	You can now downgrade your database configuration and be refunded accordingly.	2018-06	Instance Adjustment Fee
Supported MySQL 5.7 data migration	DTS now supports migrating MySQL 5.7.	2018-06	Online Import of MySQL Data
Product is renamed	CDB for MySQL is renamed TencentDB for MySQL.	2018-06	TencentDB for MySQL

August 2017

Update	Description	Release Date	Documentation
Elastic specifications is supported for read-only instances	A read-only instance can now adopt a different specification from that of its source instance.	2017-08	Creating Read-Only Instance
Monitoring at a 1-minute granularity	Monitoring can now be performed at a 1-minute granularity.	2017-08	Monitoring

is now supported			
Supported physical backup	Data can now be stored through physical backups.	2017-08	Backing up Databases
Supported manual backup	You can now customize the backup time and retention period (up to 732 days).	2017-08	Backing up Databases
Supported security group	Security group serves as a stateful virtual firewall with filtering feature for configuring network access control for one or more TencentDB instances. It is an important network security isolation tool provided by Tencent Cloud.	2017-08	TencentDB Security Group Management
Supported data subscription	DTS can now help you get incrementally updated data in TencentDB in real time, so that you can consume incremental data based on your business needs.	2017-08	Data Subscription
Supported data migration between TencentDB instances	DTS is now compatible with more types of network environments.	2017-08	Online Import of MySQL Data
Data Management Center (DMC) is available	DMC supports real-time monitoring and management of instance sessions.	2017-08	DMC Overview

June 2017

Update	Description	Release Date	Documentation
Supported MySQL 5.7	MySQL 5.7 (Percona server) is now supported as well as MySQL 5.6 kernel. Native capabilities such as horizontal scaling and read/write separation are also supported.	2017-06	Database Versions

March 2016

Update	Description	Release Date	Documentation

Read-only instance feature is available	TencentDB for MySQL allows you to create one or more read-only instances, which are suitable for read/write separation and one-source-multiple-replica application scenarios and capable of greatly enhancing the read load capacity of your database.	2016-03	Creating Read-Only Instance
Supported pay-as-You-Go instances	Database services can now be billed by hour.	2016-03	Billing Overview

Announcements

Announcement on the Rule-Based Audit Feature for Database Audit

Last updated：2024-08-08 11:19:37

Dear Tencent Cloud user,

The new version of the rule-based audit feature for TencentDB for MySQL database audit will be officially released on August 9, 2024. You can configure the rules and activate the new version of the rule-based audit feature on the Audit Instance and Rule Template pages. For operations, refer to Activating the Audit Service. The explanations related to the new and old versions of the rule-based audit feature are as follows.

Change Time

00:00 (UTC+8), Friday, August 9, 2024

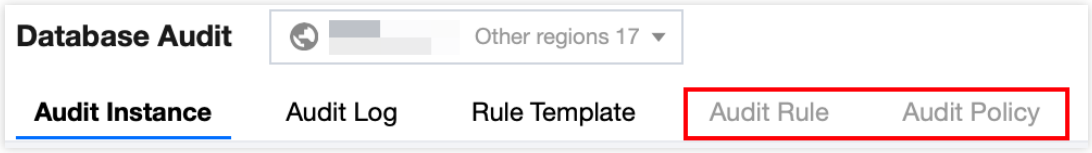
Change Description

After the change time, the new version of the rule-based audit feature for TencentDB for MySQL database audit will be fully launched.

After the change time, the old version of the rule-based audit feature for TencentDB for MySQL database audit will become invalid, and the related pages will not be displayed.

Note:

As shown in the figure below, the "Audit Rule" and "Audit Policy" pages will no longer support the old version of the rule-based audit feature. Instances with the old version of the rule-based audit feature enabled should be adjusted to use the new version by modifying the audit rules.



Impact

The changes related to the rule-based audit feature of database audit will not affect the access to the database by your business. Note the following points:

If you have not enabled database audit, after the change time, you can select full audit or the new version of the rule-based audit feature to enable database audit.
If you have enabled database audit and are using the old version of the rule-based audit feature, after the change time, you need to adjust the audit rules by modifying the audit rules. After modification, instance audit and logs storage will be conducted based on the new version of audit rules.

Announcement on Some APIs with CAM Authentication Integrated

Last updated：2024-07-16 10:28:57

Dear Tencent Cloud users, starting from July 15, 2024, Tencent Cloud will integrate the CAM authentication for some APIs of TencentDB for MySQL. To ensure that you can use these APIs normally, please log in to the Tencent Cloud CAM console to obtain authorization for accessing the relevant APIs before July 15, 2024.

Notes

For the users authorized before this date, the deployment of authentication will not affect them. However, after this date, the users not authorized should obtain authorization before accessing the relevant APIs.

Time to Take Effect

July 15 (Monday), 2024 Beijing Time (UTC+8).

List of APIs with CAM Authentication Integrated (4 in Total)

API Name	Description	Authorization Granularity
DescribeModifyAccountPrivilegesSql	Queries database tables using regular expressions	Resource-level
DescribeDatabasesForInstances	Queries TencentDB instance databases	Resource-level
OpenSSL	Enables the SSL connection feature	Resource-level
CloseSSL	Disables the SSL connection feature	Resource-level

Authorization Guide

For authorization operations, please refer to Authorization Guide.

Announcement on Some APIs with CAM Authentication Integrated

Last updated：2024-07-01 11:49:40

Dear Tencent Cloud users, starting from July 1, 2024, Tencent Cloud will integrate the CAM authentication for some APIs of TencentDB for MySQL. To ensure you can use these APIs normally, please log in to the Tencent Cloud CAM console to grant access permissions for the relevant APIs before July 1, 2024.

Notes

For users who have obtained authorization before this date, the deployment of authentication will not affect them. However, users who have not obtained authorization after this date and want to use the API need to secure authorization before gaining access to the relevant interfaces.

Time to Take Effect

Beijing Time, July 1, 2024 (Monday).

API List with CAM Authentication Integrated (16 in total)

API Name	Interface Description	Authorization Granularity
DescribeRecycleVipList	Queries the list of VIPs pending recycling	Operation-level
DescribeSSLStatus	Queries SSL activation status	Resource-level
DescribeDBInstanceGTID	Queries whether GTID is enabled for cloud data instances	Resource-level
DescribeInstanceGTIDInfo	Queries GTID information for cloud data instances	Resource-level
DescribeRoGroupInfo	Queries RO group details	Operation-level
DescribeAuditPolicies	Queries audit policies for cloud	Resource-level

	database instances	
DescribeAuditRules	Queries the user's audit rules in the current region	Operation-level
CreateAuditRule	Creates audit rules	Operation-level
ModifyAuditRule	Modifies audit rules	Operation-level
DeleteAuditRule	Deletes audit rules	Operation-level
DescribeInstancesAuditStatus	Queries instance audit status	Operation-level
DescribeAuditInstanceList	Retrieves audit instance lists	Resource-level
DescribeSubscribeAudit	Queries audit subscription	Resource-level
OpenSubscribeAudit	Enables audit subscription	Resource-level
CloseSubscribeAudit	Disables audit subscription	Resource-level
RegisterCKafkaToAudit	Registers CKafka information to audit instances	Resource-level

Authorization Operation Guide

For authorization operations, please refer to the authorization operation guide.

Notice on Elimination of Some Indicators in Event Alarms

Last updated：2024-06-18 14:03:34

Dear Tencent Cloud users, to provide you with more accurate and comprehensive event alarm descriptions, TencentDB for MySQL plans to eliminate **the following four event indicators on July 1, 2024: "MasterNotAvailable", "MasterNotAvailableRecovery", "SlaveNotAvailable", and "SlaveNotAvailableRecovery"**, and will **optimize them to "MasterHealthCheckError", "MasterHealthCheckRecovery", "SlaveHealthCheckError", and "SlaveHealthCheckRecovery"** respectively. The alarm principles of the involved event indicators will remain unchanged; this optimization is only for event names, descriptions, handling methods, and recommendations to better assist you in understanding.

Note:

After the elimination of the involved event indicators, you will need to reset the event alarms for the four new indicators: "MasterHealthCheckError," "MasterHealthCheckRecovery," "SlaveHealthCheckError," and "SlaveHealthCheckRecovery." For the operation guide, please refer to Setting Event Alarms.

Elimination Time

Beijing Time, Monday, July 01, 2024.

Information of Optimized Related Events Indicators

Event English Name	Event Type	Subordinate Dimension	Recovery Concept Availability	Event Description	Solution and Sugg
MasterHealthCheckError	Abnormal event	TencentDB for MySQL instance dimension	No	The primary instance may be unable to determine whether the current primary instance node service	Node configuratior increased appropr reduce the probab risks. 1. If you receive a MasterHealthChec event, it means tha primary node has r HA switch rollback occurred, and no a has occurred.

				status is active due to high load, maximum number of connections reached, runtime exceptions, network fluctuations, etc.	2. If you receive bo and SlaveHealthCheck events, it indicates switch has occurre recovery succeede 3. If you receive a event but do not re SlaveHealthCheck event, it means tha switch has occurre original primary ins been rebuilt.
MasterHealthCheckRecovery	Recovery event	TencentDB for MySQL instance dimension	No	Recovery after the database primary node encounters a service exception.	The database MasterHealthChec recovered from the exception and is n operating normally
SlaveHealthCheckError	Abnormal event	TencentDB for MySQL instance dimension	No	The replica instance may be unable to determine whether the current replica instance node service status is active due to high load, maximum number of connections reached, runtime exceptions, network fluctuations, etc.	Node configuratior number of read-on can be increased appropriately to re probability of risks 1. If you receive SlaveHealthCheck it indicates the rep has recovered. 2. If you does not r SlaveHealthCheck it indicates that the node health check out and been rebu

SlaveHealthCheckRecovery	Recovery event	TencentDB for MySQL instance dimension	No	1. Recovery after the database replica node encounters a service exception. 2. The original primary node is abnormal. After the primary-replica switch, the original abnormal primary node recovers as a replica node.	1. The database SlaveHealthCheck recovered from the exception and is n operating normally 2. The original MasterHealthChec the database has r from the service ex and is now operati normally.

Impact

This update will not affect your business database usage. If you have set up alarms for event indicators that are to be eliminated before July 1, 2024, these alarms will not be triggered after the elimination. Please ensure to set up alarms for the new event indicators timely. If you haven't set up alarms for the event indicators that are to be eliminated before July 1, 2024, we recommend you set up alarms for the new event indicators by then, to help you more clearly detect health check errors.

Commercial Billing for Database Proxy

Last updated：2024-02-23 10:31:36

Dear Tencent Cloud user,
Tencent Cloud will begin commercial billing for the TencentDB for MySQL Database Proxy **on April 1, 2024, at 16:00:00**. Please promptly review the Commercial Billing and Activity Description for Database Proxy and adjust the relevant Database Proxy policies according to your business needs.

Time of Commercial Charges

Starting on Monday, April 1, 2024, at 16:00:00 Beijing time (GMT+8)

Database Proxy Commercial Billing Overview

For Database Proxy pricing details, see Database Proxy Billing Overview.
For information regarding free promotions for new and existing customers during the commercialization period of the database proxy, see Discount Overview.
For guidance on database proxy, see Overview.

Database Proxy Commercialization Impact Explanation

It does not affect your use of TencentDB for MySQL with the commercialization of TencentDB for MySQL Database Proxy. After launching, Tencent Cloud will charge fees for the database proxy. To give you sufficient time to understand the needs of your business and consider the use of the database proxy, TencentDB for MySQL has provided relevant promotional activities.
TencentDB for MySQL records the official commercial billing time (on April 1, 2024, at 16:00:00 Beijing Time) of the activation of the database proxy, distinguishing old customers from new ones.
Existing customers: Those who have an effective database proxy node at the official commercial billing time are considered existing customers. Tencent Cloud will record the total specifications, in terms of instances, of the effective database proxy nodes of existing customers at the official commercial billing time as the total discounted volume specification for the database proxy of the existing customers. Since the billing starts, the total discounted volume specification for the database proxy can continue to be tried for free for three months. Three months later, this part of the database proxy specification will start to charge at the normal service price. For more details, please refer to Discount for Existing Customers.

New customers: At the official commercial billing time, those without a database proxy node are considered as new customers. Starting from the official commercial billing time, a Tencent Cloud UIN account supports three instances to enjoy a 15-day free trial database proxy feature activity, and each instance's database proxy node has a total discounted volume of a 32-core one with 64,000 MB memory. For more details, see Discount for New Customers.

Note:

Customers who previously enabled a database proxy before the start of commercial billing and disabled it before the official billing time are also considered new customers.

TencentDB for MySQL Audit Upgrade

Last updated：2023-09-13 16:06:34

Tencent Cloud has updated the database audit service of TencentDB for MySQL on July 12, 2023. This update mainly involves the audit log page as follows:

1. When searching audit logs, the character used to separate multiple search items is changed from **comma** to **line break**.

2. The units of the audit log fields **Execution Time** and **CPU Time** in the console and downloaded audit log files are all adjusted to **microseconds**.

Audit log fields	Unit in the console before update	Unit in the downloaded audit log file before update	Unit after update
Execution Time	Millisecond (ms)	Microsecond (μs)	**Microsecond (μs)**
CPU Time	Microsecond (μs)	Nanosecond (ns)	**Microsecond (μs)**

This update will not affect your use of the database. Thank you for your trust and support.

Added Authentication APIs

Last updated：2023-09-13 16:07:45

Tencent Cloud will add new APIs with CAM authentication for TencentDB for MySQL on May 7, 2023. To ensure that you can use these APIs normally, log in to the CAM console to grant access permissions for them.

Note

Users who have not granted access permissions before this date can't access some new APIs. To access them, you need to log in to the CAM console to grant access permissions.

Time for Adding Authentication APIs

Sunday, May 7, 2023, Beijing time.

APIs That Require CAM Authentication (22 in Total)

API	Description	Authorization Granularity
DescribeInstancesReturnable	Whether the instance can be returned	Operation-level
DescribeDefaultParamTemplates	Queries the list of the default parameter templates	Operation-level
DescribeDBSecurityGroupsDetail	Queries the security group information	Operation-level
DescribeCageRealServerUsage	Queries the utilization of physical machine resources in the financial cage	Operation-level
DescribeRollbackInstanceSyncStatus	Queries the data sync status that supports instance rollback in version upgrade	Operation-level
DescribeRecycleVipList	Queries the list of VIPs to be repossessed	Operation-level

DescribeStockCheckResult	Queries the execution result for the resource inventory task	Operation-level
DeleteBackups	Deletes TencentDB backups in batches	Resource-level
DescribeRemoteBackupConfig	Queries the configuration information of a remote TencentDB instance backup	Operation-level
DescribeProxySupportParam	Queries the supported proxy versions and parameters for an instance	Operation-level
DescribeCdbProxyInfo	Queries the database proxy details	Operation-level
AdjustCdbProxyAddress	Adjusts the database proxy address	Operation-level
CloseCdbProxyAddress	Disables the database proxy address	Operation-level
ModifyRemoteBackupConfig	Modifies the configuration information of a remote TencentDB instance backup	Operation-level
CreateCdbProxyAddress	Creates a database proxy address	Operation-level
CreateCdbProxy	Creates a database proxy	Resource-level
ModifyCdbProxyAddressDesc	Modifies the description of the proxy address	Operation-level
ModifyCdbProxyAddressVipAndVPort	Modifies the VPC of the database proxy address	Operation-level
ModifyCdbProxyParam	Configures the parameters of database proxy	Operation-level
RecycleVip	Repossess VIP immediately	Resource-level
StartCheckRoInstanceStockByMultiCondition	Initiates the task of querying the backend read-only resource inventory	Operation-level
StartCheckMasterInstanceStockByMultiCondition	Initiates the task of querying the	Operation-level

	read-only resource inventory	

Note

For operations on authorization, see API Authentication Upgrade。

API Authentication Upgrade

Last updated：2023-07-05 16:42:03

As required by the security requirements of Tencent Cloud, APIs that are directly accessed now require CAM authentication for access starting from March 31, 2023. To ensure that you can continue to use these APIs normally after the upgrade, go to the CAM console to grant the access permissions for them.

Note

If you have already authorized, the authentication upgrade will have no impact on your business; otherwise, you should authorize first before calling APIs.

Effective Time

Friday, March 31, 2023.

APIs That Require CAM Authentication (46 in Total)

API	Description	Authorization Granularity
DescribeSSLStatus	Queries whether SSL is enabled. If it is enabled, the download link for the certificate will be returned synchronously.	Operation-level
DescribeAuditPolicies	Queries the instance audit policy	Resource-level
DescribeDBPrice	Queries the price of a database instance	Resource-level
OpenAuditService	Enables the audit service	Operation-level
OpenSSL	Enables SSL connection	Resource-level
DescribeDBInstanceGTID	Queries whether GTID is enabled for the instance	Resource-

		level
DeleteAuditRule	Deletes the audit policy	Operation-level
CreateAuditRule	Creates an audit rule	Operation-level
CloseSSL	Disables SSL connection	Resource-level
ModifyAuditRule	Modifies the audit rule	Operation-level
DescribeDBFeatures	Queries database version attributes, including supported features such as database encryption and audit.	Resource-level
DescribeDBDiskInfo	Queries the disk information of the TencenDB physical machine	Resource-level
ModifyDBInstanceReadOnlyStatus	Sets TencenDB for MySQL instance to be read-only	Resource-level
OpenTransparentSlaveAccess	Enables the read-only access to the replica server	Resource-level
SwitchDrMasterRole	Performs a disaster recovery failback	Resource-level
DescribeDBInstanceProcess	Queries the instance active threads	Resource-level
DescribeDataBackupSavePlan	Queries the database backup retention plan for the next year	Resource-level
EndReservedRollbackInstance	Disables version rollback after version upgrade, which indicates that you can't roll back the instance version from v5.7 to v5.6.	Resource-level
BatchUpgradeDBInstance	Upgrades or downgrades TencentDB instance configurations in batches, which can be applied for a source instance, disaster recovery instance, or read-only instance	Resource-level
DescribeSupportDeviceClass	Obtains the supported placement group model	Operation-level

CheckDrInstanceRecovery	Verifies whether a disaster recovery failback can be performed. Before promoting the disaster recovery instance to the source instance, you can use this API to verify the delay between these two instances and their GTIDs. If the verification is successful, the disaster recovery instance can be promoted to the source instance and a disaster recovery failback can be performed.	Resource-level
StartReplay	Enables point-in-time replay to a specific time or position.	Resource-level
DescribeSwitchableInstanceList	Obtains the list of all instances to be switched	Resource-level
DescribeInstanceGTIDInfo	Queries GTID information	Resource-level
CloseTransparentSlaveAccess	Disables the read-only access to the replica server	Resource-level
CheckIpInSubnet	Verifies whether an IP is within a subnet	Operation-level
RollbackDBInstanceEngineVersion	Rolls back the instance that initiated the version upgrade. Currently, this is only supported for upgrading from v5.6 to v5.7, that is, only v5.7 can be rolled back to v5.6	Resource-level
UnAssociateSecurityGroups	Unassociates security groups from instances in batches	Resource-level
TransferPreToPost	Switches from monthly subscription to pay-as-you-go billing	Resource-level
TerminateInstanceAutoTune	Cancels parameter tunning task, which is only supported for incomplete task with instances that have not been terminated.	Resource-level
SubmitBatchOperation	Submits batch import tasks	Resource-level
StartInstanceAutoTune	Initiates parameter tunning task	Resource-level
ModifyRollbackInstanceSyncStatus	Ignores errors in data sync during the rollback version process after version upgrade	Resource-level

ModifyProtectMode	Modifies the sync mode of the instance	Resource-level
ModifyManualBackupName	Modifies the alias of a manual backup	Resource-level
ModifyBackupInfo	Modifies the backup information	Resource-level
DescribeTimeWindowSwitchForZone	Gets the list of regions where the maintenance window is disabled. This means that the switch tasks initiated within the maintenance window are all invalid, and no switch is performed..	Operation-level
DescribeMonitorData	Gets the instance monitoring data	Resource-level
DescribeBatchJobFileContent	Gets batch import SQL files	Operation-level
DescribeBackupDownloadDbTableCode	Queries the download position of sharded databases and tables	Resource-level
DeleteTimeWindowSwitchForZone	Deletes a region where any switch tasks initiated by users during the maintenance window will still be valid within the maintenance window.	Operation-level
DeleteReadOnlyInstanceIp	Deletes the exclusive VIP for a read-only instance	Resource-level
DeleteBatchJobFiles	Deletes the list of batch import SQL files submitted by users	Operation-level
CreateBatchJobFiles	Imports and exports SQL files in batches	Operation-level
CancelBatchOperation	Stops batch import task	Operation-level
AddPartSqlFile	Saves parts information when a large SQL file is divided into multiple parts for uploading	Operation-level

Authorization Guide

1. Log in to the CAM console.

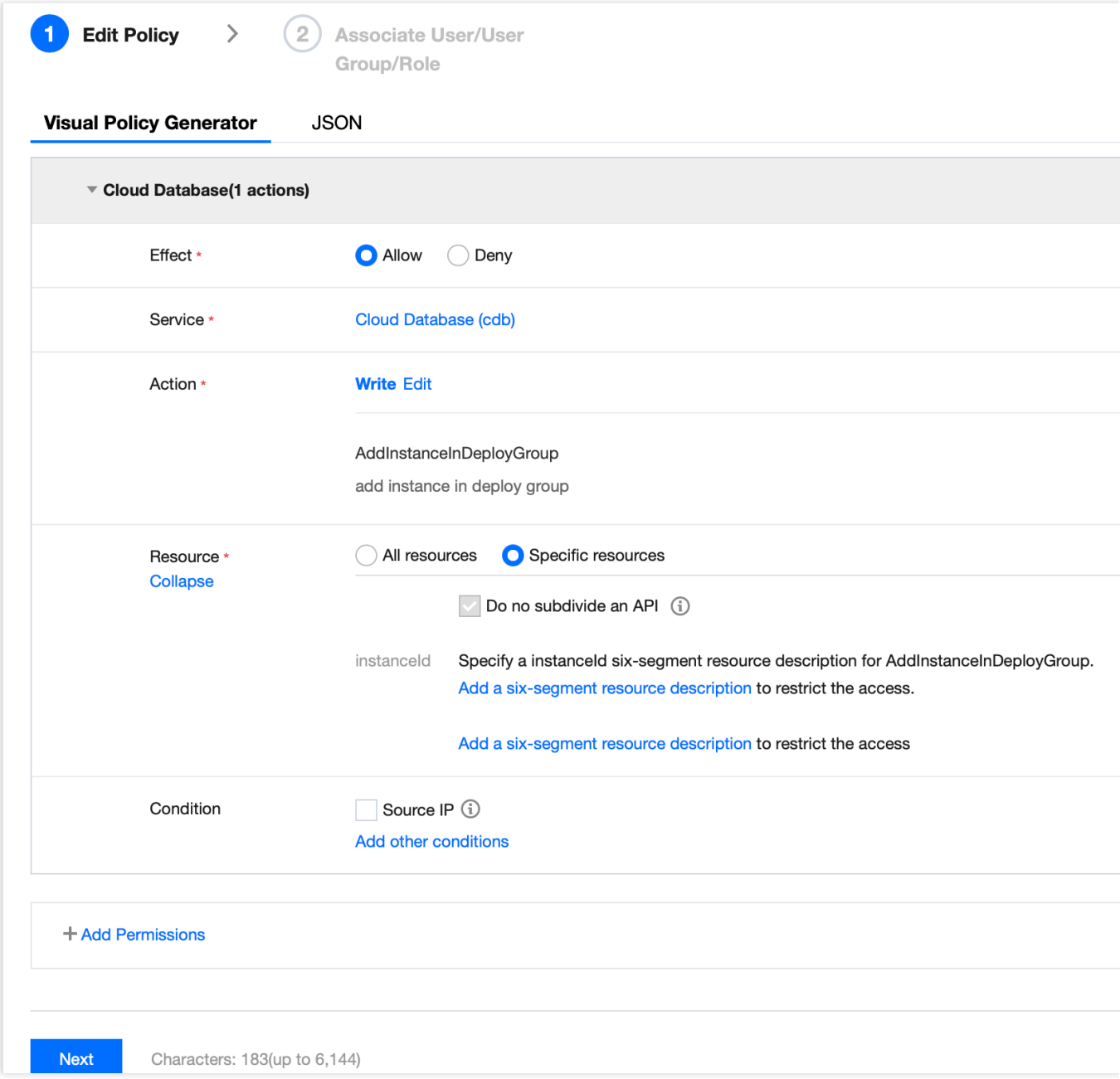
2. Click **Policies** on the left sidebar.

Resource-level APIs

Select **Create Custom Policy** > **Create by Policy Generator** to configure policy parameters.

Service: TencentDB for MySQL

Resource: Select **Specific resources** or **All resources**.

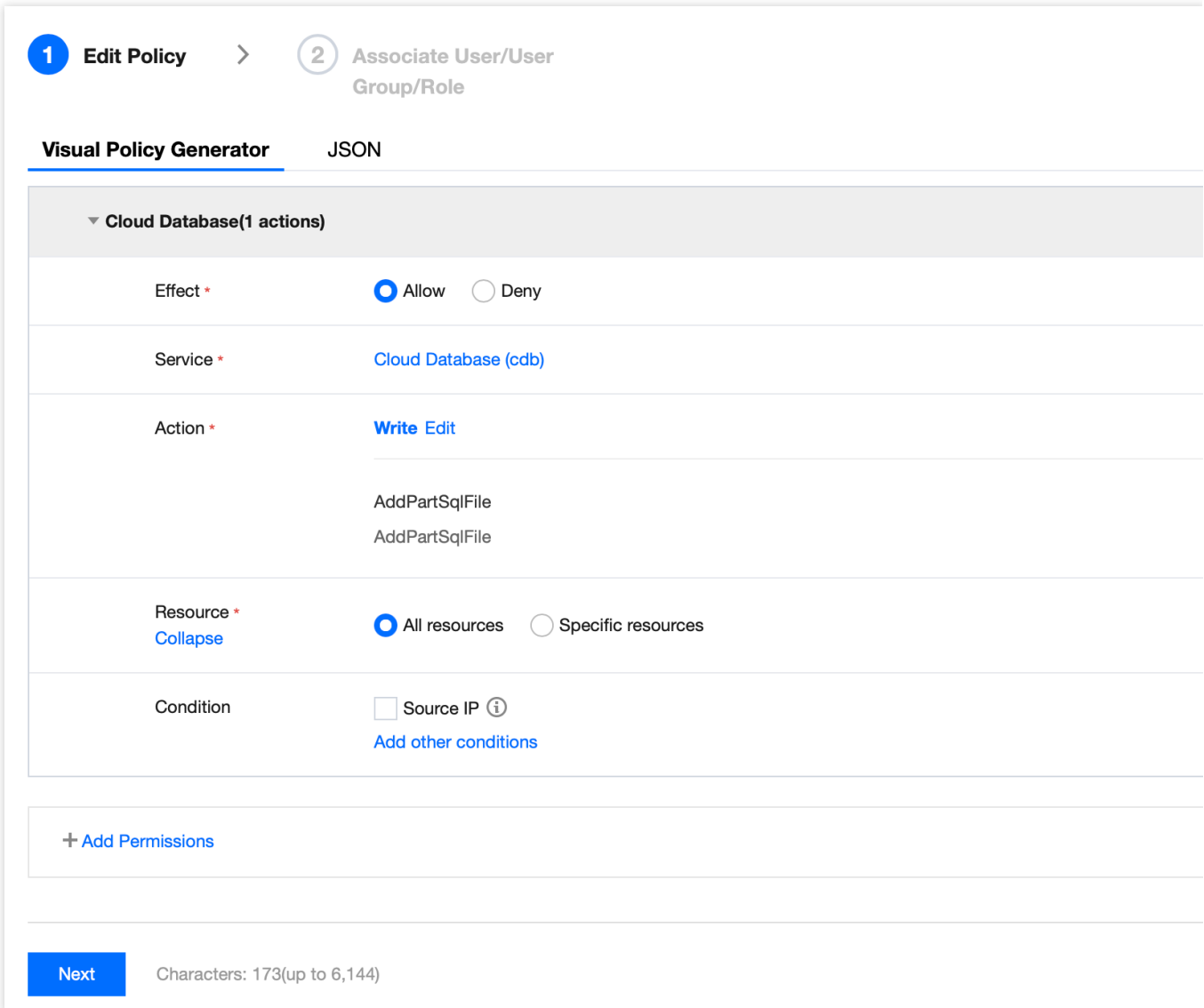


Operation-level APIs

Select **Create Custom Policy** > **Create by Policy Generator** to configure policy parameters.

-Service: TencentDB for MySQL

Resource: Select **All resources**.



TencentDB for MySQL API 2.0 Discontinuation

Last updated：2023-01-13 14:52:05

TencentDB for MySQL API 3.0 is easier to use with a lower access latency. Technical support has been discontinued for API 2.0, which will be deactivated on March 31, 2023, Beijing time (UTC+8).
We recommend you upgrade to TencentDB for MySQL API 3.0 as soon as possible to avoid affecting your business.

Change time

Friday, March 31, 2023.

Notes on the new version

The new API documentation is more standardized and comprehensive. The unified parameter style, common error codes, and SDK/CLI version are strictly consistent with the API documentation. For more information, see Introduction.
For more information on how to switch from TencentDB for MySQL API 2.0 to 3.0.
Thank you for your support!

Monitoring Module Upgrade in Shanghai Region

Last updated：2024-07-22 10:43:15

To provide you with more stable and high-quality TencentDB for MySQL service, we will upgrade and optimize its monitoring module in Shanghai region.

Change time

01:00–06:00 AM on February 17, 2023 (Friday) and February 20, 2023 (Monday).

Detailed schedule

AZs upgraded on February 17, 2023 (Friday): Shanghai Zones 5, 6, and 7.
AZs upgraded on February 20, 2023 (Monday): Shanghai Zones 1, 2, 3, and 4.

Impact of change

There will be one or two breakpoints in certain monitoring metrics, such as the numbers of abnormally closed client connections, failed connection attempts, full-table scans in join queries, range searches in join queries, table cache hits, table cache misses, and table cache overflows, but they won't affect the operation of your database instances. Key metrics such as CPU, memory utilization, and read/write rate will not be affected, nor will alarm events such as HA switch and running failures.
We apologize for any inconvenience caused.

Monitoring Metric Optimization

Last updated：2023-03-13 12:01:58

In order to help you better discover database exceptions and protect your business through monitoring, TencentDB for MySQL has optimized the IOPS utilization metric. The optimization will cause the metric data volume to increase. We recommend you promptly check out the corresponding changes of the metric and alarm configuration.

Change time

Friday, December 9, 2022.

Notes

After the metrics are optimized, the metric data volume may increase. We recommend you promptly check out the corresponding changes of metrics and alarm configuration.

Involved metrics

IOPS utilization.

Network Architecture Upgrade

Last updated：2023-03-13 12:01:58

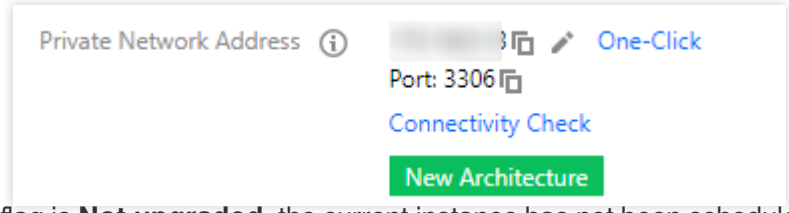
In order to provide better service, higher performance, and lower network latency, the TencentDB for MySQL team has fully upgraded the private network access linkage.
**Starting from November 9, 2022, the new network architecture will be applied to newly purchased instances to deliver lower latency and higher performance.
On January 21, 2023, all existing database instances will be switched to the new network architecture. A momentary disconnection from the database may occur during the switch. Make sure that your business has a reconnection mechanism.
Note:
The new architecture will deliver higher performance and network stability and lower network latency. For more information, see Network Architecture Performance Comparison.
A momentary disconnection from the database may occur during the architecture upgrade. Make sure that your business has a reconnection mechanism.
Single-node instances of cloud disk edition are already in the optimal network architecture, so their details page does not indicate whether the network architecture is new. This upgrade will not involve such instances.
The new network architecture cannot be used in the classic network, so the new architecture flag will not be displayed for it. To use it, switch to VPC as instructed in Network Switch.

Change time

Starting from Wednesday, November 9, 2022, the new network architecture is applied to newly purchased instances. By Saturday, January 21, 2023, the network architecture of all existing instances will be switched to the new version.

New network architecture flag

You can view the network architecture upgrade progress of the current instance through the flag after **Basic Info** > **Private Network Address** on the instance details page in the console.
Not upgraded



If the flag is **Not upgraded**, the current instance has not been scheduled for the network architecture upgrade. We recommend you wait patiently.

To be upgraded

If the flag is **To be upgraded**, the current instance will undergo the network architecture upgrade during the maintenance time. You can adjust the maintenance time to change the upgrade time. If the instance has other tasks to be performed during the maintenance time, the upgrade will be postponed to the next maintenance time. We will send you an upgrade notification in the Message Center about one week before the upgrade.

New architecture

If the flag is **New architecture**, the current instance has already been upgraded to the new architecture.

Thank you for your support!

Change of APIs for Querying the Specifications of Purchasable Database Instances

Last updated：2023-02-22 16:19:17

In order to enhance the API security and provide more stable and higher-quality TencentDB for MySQL services, we will change the **APIs for querying the specifications of purchasable database instances** on **November 30, 2022**.

Change time

Wednesday, November 30, 2022.

Change description

The original APIs for querying the specifications of purchasable database instances `DescribeDBZoneConfig` and `DescribeAvailableZoneConfig` will be deprecated and replaced by `DescribeCdbZoneConfig`.

List of deprecated APIs

API	Description
DescribeDBZoneConfig	Queries the specifications of purchasable database instances
DescribeAvailableZoneConfig	Queries the specifications of purchasable database instances

API for querying the specifications of purchasable database instances

API	Description
DescribeCdbZoneConfig	Queries the specifications of purchasable database instances

Thank you for your support!

Replacement of Certain Old Database Proxy APIs

Last updated：2022-12-19 11:58:58

TencentDB for MySQL has released a new database proxy version. In order to support all the capabilities of the new version, new APIs are provided for replacing, upgrading, and configuring the database proxy as detailed below.

Change time

Starting from Thursday, November 17, 2022.

Replaced APIs

Old API	New API	Description
UpgradeCDBProxy	AdjustCdbProxy	Upgrades the configuration of the database proxy
ModifyCDBProxy	AdjustCdbProxyAddress	Configures the read/write separation of the database proxy

Added Advanced Monitoring Metrics

Last updated：2023-07-05 16:42:03

To provide you with more comprehensive and convenient instance monitoring services, TencentDB for MySQL now supports advanced metrics for alarms, performance analysis, and failure alarming. If needed, you can go to the integration center to select the metric set.

The basic metric set only covers MySQL basic metrics, including visualization, alarms, and API calls. You can use them for free.

The advanced metric set covers both basic and advanced metrics, including visualization, alarms, and API calls. After enabling advanced metric set, you can continue to use the basic metrics for free and only pay for the data points generated by the advanced metrics.

Note:

You can use the advanced metric set for free before July 1, 2022, after which you will be charged based on the actual number of data points generated by the advanced metrics at the minimum granularity.

To enable or disable the advanced metrics, go to the integration center to do so in the TCOP console.

List of Advanced Metrics for TencentDB for MySQL

Parameter	Metric Name	Description	Unit	Dimension	Statistical Period
AbortedClients	Numbers of abnormally closed client connections	Number of suspended connections due to improper client disconnection	Count	InstanceId, InstanceType (optional)	5s, 60s, 300s, 3,600s, 86,400s
AbortedConnects	Number of failed connection attempts	Number of failed connections to MySQL server	Times/sec	InstanceId, InstanceType (optional)	5s, 60s, 300s, 3,600s, 86,400s
SelectFullJoin	Full-table scans in join queries	If this value is not `0`, check the index of the table carefully.	Times/sec	InstanceId, InstanceType (optional)	5s, 60s, 300s, 3,600s, 86,400s
SelectFullRangeJoin	Range search	Number of multi-table join	Times/sec	InstanceId, InstanceType	5s, 60s, 300s,

	counts in join queries	operations using range search on auxiliary reference tables. This value represents the number of times tables were joined using range search.		(optional)	3600s, 86400s
TableOpenCacheHits	Table cache hits	Table opened cache hits	Times/sec	InstanceId, InstanceType (optional)	5s, 60s, 300s, 3,600s, 86,400s
TableOpenCacheMisses	Table cache misses	Table opened cache misses	Times/sec	InstanceId, InstanceType (optional)	5s, 60s, 300s, 3,600s, 86,400s
TableOpenCacheOverflows	Table cache overflows	Table opened cache overflows	Times/sec	InstanceId, InstanceType (optional)	5s, 60s, 300s, 3,600s, 86,400s

Change of Calculation Formula for Memory Utilization

Last updated：2022-09-14 15:29:51

To provide you with more stable and higher-quality TencentDB for MySQL service, we will **change the calculation formula** of the database monitoring metric **memory utilization**.

Change time

01:00–01:30 AM on Tuesday, May 31, 2022.

Change description

Calculation formula before change: Memory utilization = memory usage / purchased memory specification
Calculation formula after change: Memory utilization = memory usage / (purchased memory specification + overused idle memory)
Note:
The overused idle memory refers to the additional memory allocated to each instance in a specific proportion when the memory resources of the physical machine are idle. It is automatically allocated by Tencent Cloud and does not involve fees. It reduces the probability of OOM during instance use.

Impact of change

The change will not affect instance operations. The memory utilization may fluctuate after the change.

Suggestions for alarm policy adjustment

Adjust the related thresholds of memory utilization in the alarm policy promptly. For detailed directions, see Alarm Policies (Cloud Monitor).
We recommend you set the alarm threshold of memory utilization to 90% after the change. When the memory utilization reaches 95%, there will be a great risk of OOM.
We apologize for any inconvenience caused.

Monitoring Module Upgrade and Optimization in Guangzhou and Shanghai Regions

Last updated：2022-09-14 10:56:23

To provide you with more stable and high-quality TencentDB for MySQL service, we will upgrade and optimize its monitoring module in Guangzhou and Shanghai regions.

Change Time

From 2022-05-11 (Wednesday) to 2022-05-12 (Thursday): Guangzhou
From 2022-05-16 (Monday) to 2022-05-17 (Tuesday): Shanghai

Impact of Change

There will be one or two breakpoints in certain monitoring metrics, but they will have no effect on the operation of your database instances. Key metrics such as CPU, memory utilization, and read/write rate will not be affected, nor will alarm events such as HA switch and running failures.
We apologize for any inconvenience caused.

Monitoring Module Upgrade

Last updated：2023-08-09 18:18:03

To provide you with more stable and high-quality TencentDB for MySQL service and reduce the delay in monitoring data collection, we will upgrade and optimize its monitoring feature.

Change Time

01:00–06:00 AM Beijing time (GMT+8) from 2022-03-25 (Friday) to 2022-04-15 (Friday).

Detailed Schedule

2022-03-25 (Friday): Singapore, Frankfurt, and Virginia
2022-03-28 (Monday): Silicon Valley, Toronto, São Paulo, and Jakarta
2022-03-29 (Tuesday): Mumbai, Bangkok, Seoul, Tokyo, Hong Kong (China), and Taipei (China)
2022-03-30 (Wednesday): Chengdu and Chongqing
2022-04-01 (Friday): Shenzhen, Hangzhou, Nanjing, and Tianjin
2022-04-04 (Monday): Beijing (Zones 5, 6, and 7)
2022-04-05 (Tuesday): Beijing (Zones 3 and 4)
2022-04-06 (Wednesday): Beijing (Zones 1 and 2)
2022-04-07 (Thursday): Guangzhou (Zones 6 and 7)
2022-04-08 (Friday): Guangzhou (Zones 4 and 5)
2022-04-11 (Monday): Guangzhou (Zones 2 and 3)
2022-04-12 (Tuesday): Guangzhou (Zone 1)
2022-04-13 (Wednesday): Shanghai (Zones 4 and 5)
2022-04-14 (Thursday) Shanghai (Zone 2)
2022-04-15 (Friday): Shanghai (Zones 1 and 3)

Impact of Change

There will be one or two breakpoints in certain monitoring metrics, but they will have no effect on the operation of your database instances. Key metrics such as CPU, memory utilization, and read/write rate will not be affected, nor will alarm events such as HA switch and running failures.
We apologize for any inconvenience caused.

Parameter Template and Instance Purchase Process Optimization

Last updated：2024-07-22 10:56:59

Starting from December 8, 2021, TencentDB for MySQL has optimized parameter-related features and instance delivery process, including creating and applying parameter templates, comparing parameters, modifying modifiable parameters, and purchasing instances.

Note:

Parameter capabilities are applicable only to two-node and three-node TencentDB for MySQL 5.6, 5.7, and 8.0.

Instance Purchase Process Optimization

As compared with the original instance purchase process, the initialization step is canceled, and you can select the character set, configure the table name case sensitivity, and enter the databases access port and root password on the instance purchase page.

For more information, see Creating MySQL Instance.

Parameter Optimization

Parameter application

Certain parameters can be defined in a formula to change along with the specification, ensuring that the database always runs with the optimal configuration.

Expression syntax is supported as follows:

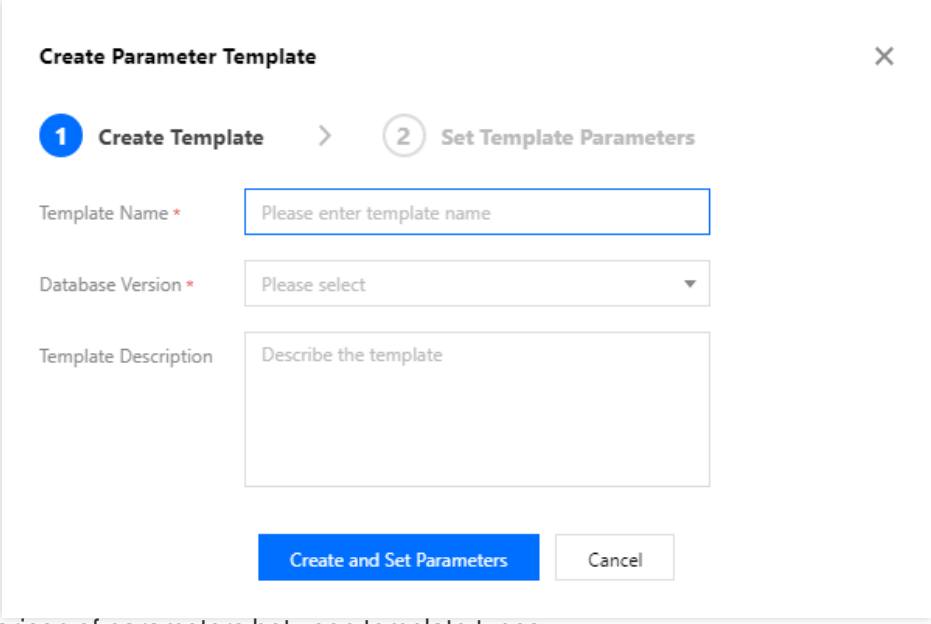
Supported Type	Description	Sample
Variable	DBinitMemory: Memory size of instance specification, which is an integer. For example, if the memory size of the instance specification is 4,000 MB, the value of `DBinitMemory` will be 4000. DBInitCpu: Number of CPU cores of instance specification, which is an integer. Note that the value of the `innodb_buffer_pool_size` parameter in TencentDB for MySQL must be between 50% and 90% of the memory size. If the configured value is above 90% or below 50%, it will be automatically configured to 90% or 50% respectively.	{DBinitMemory * 786432}: DBinitMemory * percentage (75% by default) * 1024 * 1024 (unit conversion).
Operator	Formula syntax: It should be enclosed in braces ({}).	-

	Division operator (/): It divides the dividend by the divisor and returns an integer quotient. If the calculation result is a decimal number, only the integer part will be retained. Decimal numbers are not supported; for example, `{MIN(DBInitMemory/4+500,1000000)}` instead of `{MIN(DBInitMemory\\*0.25+500,1000000)}` is supported. Multiplication operator (*): It multiplies two numbers and returns an integer product. If the calculation result is a decimal number, only the integer part will be retained. Decimal number calculation is not supported.	
Function	MAX(): It returns the greatest value in an integer or parameter formula list. MIN(): It returns the smallest value in an integer or parameter formula list.	{MAX(DBInitCpu/2,4)}

For detailed parameter settings, see Setting Instance Parameters.

Parameter template creation

For parameter template creation, the original one parameter template type is changed to two types (high-performance template and high-stability template), and the referenced template type option is added.



Comparison of parameters between template types:

Changed Parameter	Default Template	High-Performance Template	High-St
innodb_read_io_threads	12	{MAX(DBInitCpu/2,4)}	{MAX(D
innodb_write_io_threads	12	{MAX(DBInitCpu/2,4)}	{MAX(D

max_connections	800	{MIN(DBInitMemory/4+500,100000)}	{MIN(D
table_definition_cache	768	{MAX(DBInitMemory*512/1000,2048)}	{MAX(D
table_open_cache	2000	{MAX(DBInitMemory*512/1000,2048)}	{MAX(D
table_open_cache_instances	16	{MIN(DBInitMemory/1000,16)}	{MIN(D
innodb_disable_sort_file_cache	OFF	OFF	ON
innodb_log_compressed_pages	ON	OFF	ON
innodb_print_all_deadlocks	OFF	OFF	ON
sync_binlog	0	1000	1
thread_handling	one-thread-per-connection	pool-of-threads	one-thre
innodb_flush_redo_using_fdatasync	FALSE	TRUE	FALSE
innodb_fast_ahi_cleanup_for_drop_table	FALSE	TRUE	FALSE
innodb_adaptive_hash_index	FALSE	TRUE	FALSE
innodb_table_drop_mode	SYNC_DROP	ASYNC_DROP	SYNC_
innodb_flush_log_at_trx_commit	2	2	1

For more information on template parameters, see Managing Parameter Template.

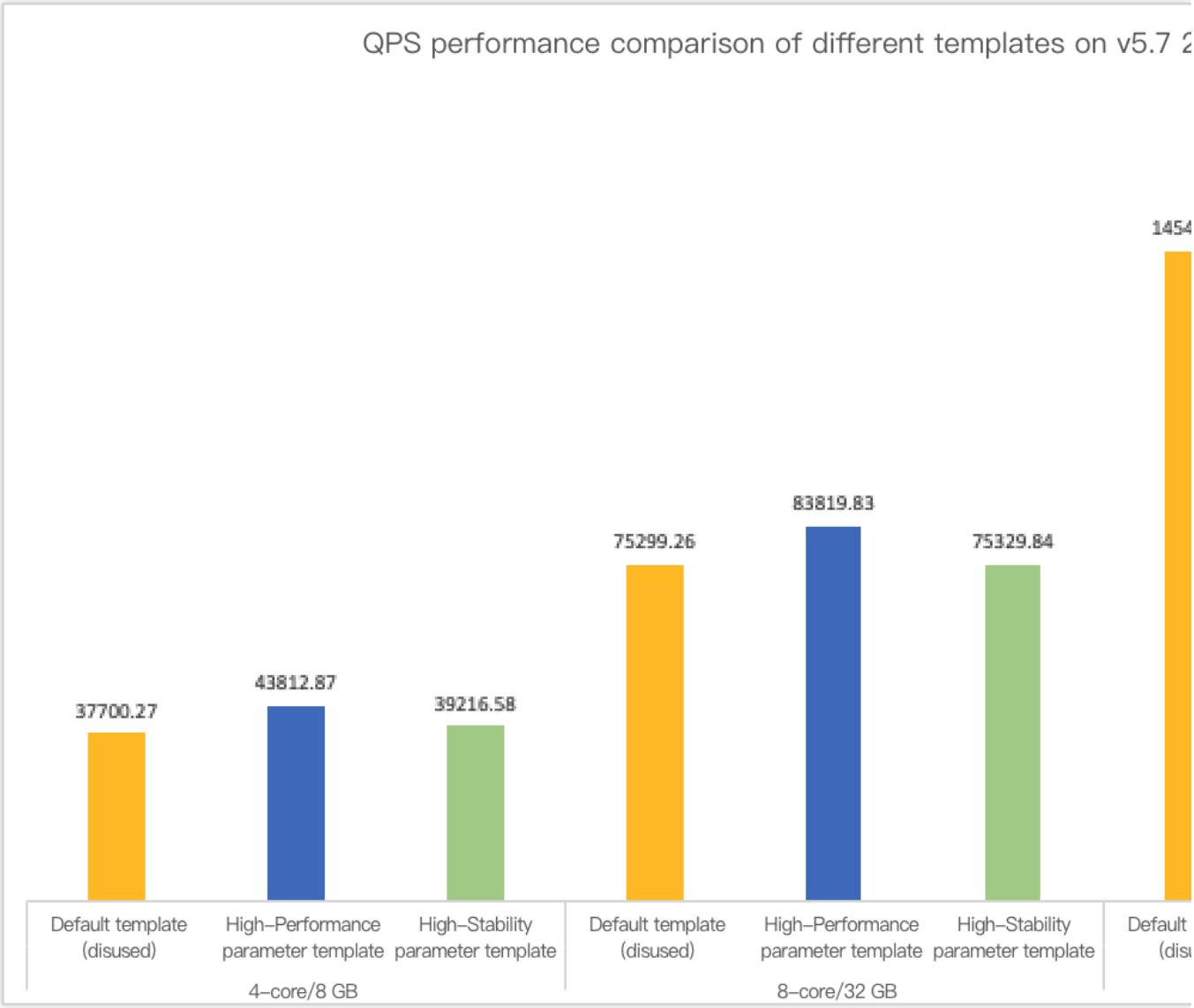
New modifiable parameters

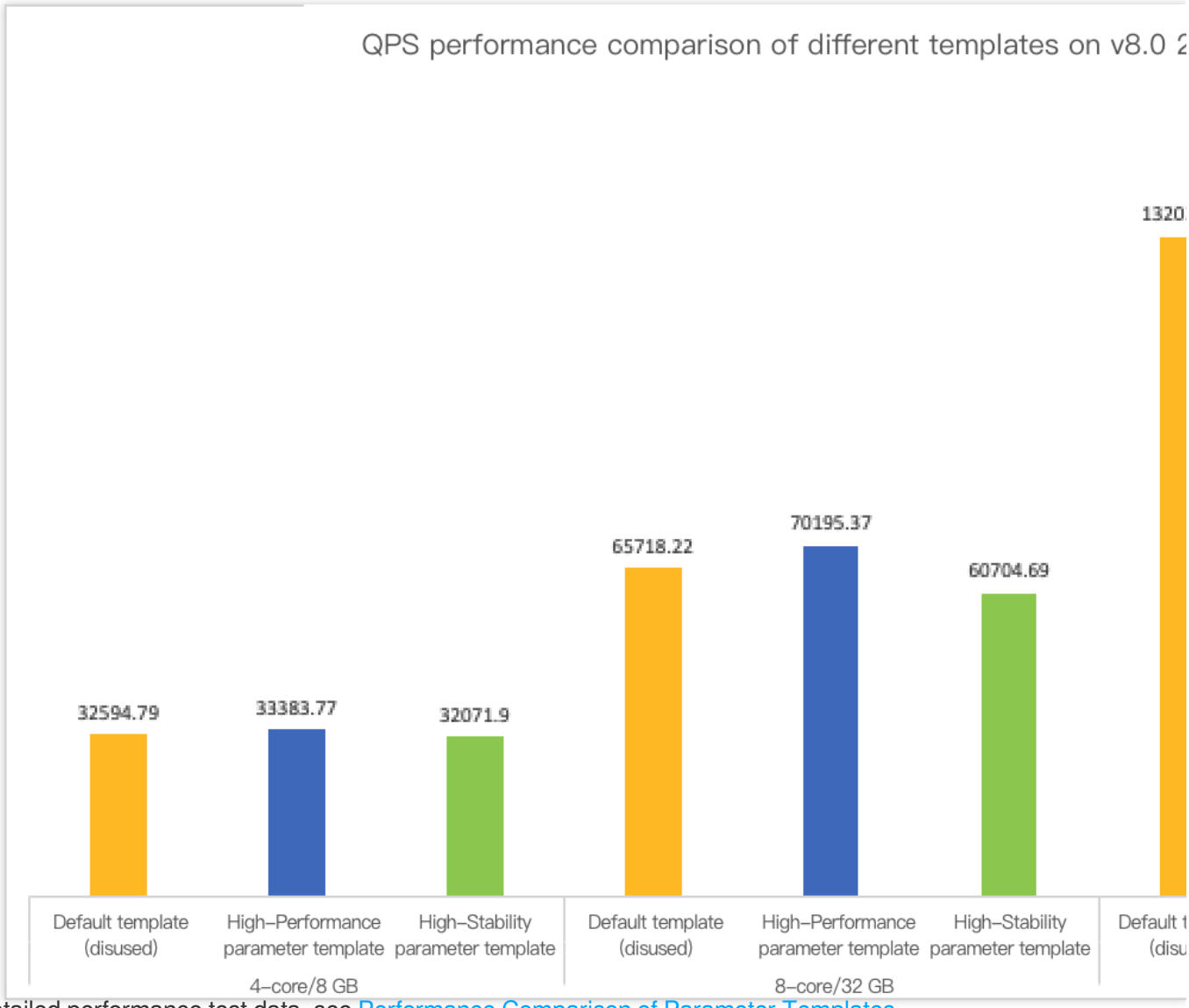
Parameter	TencentDB for MySQL 5.6	TencentDB for MySQL 5.7	TencentDB for MySQL 8.0
character_set_client	-	✓	-
default_password_lifetime	-	✓	✓
innodb_alter_table_default_algorithm	-	✓	-
innodb_async_truncate_size	-	✓	✓
innodb_async_truncate_work_enabled	-	✓	-
innodb_buffer_pool_instances	✓	✓	✓

innodb_buffer_pool_size	✓	✓	✓
innodb_default_row_format	-	✓	✓
innodb_fast_ahi_cleanup_for_drop_table	-	-	✓
innodb_flush_redo_using_fdatasync	-	✓	✓
innodb_page_cleaners	-	✓	✓
innodb_table_drop_mode	-	-	✓
innodb_temp_tablespace_fast_cleanup	-	-	✓
internal_tmp_mem_storage_engine	-	-	✓
slave_net_timeout	✓	✓	-
slave_parallel_type	✓	-	-
slave_parallel_workers	✓	✓	✓
sort_buffer_size	✓	-	-
temptable_use_mmap	-	-	✓
thread_handling	✓	✓	✓
thread_handling_switch_mode	-	-	✓
thread_pool_oversubscribe	✓	✓	✓
thread_pool_size	-	✓	✓
tx_isolation	-	✓	✓

Performance test on template types

The test results are as shown below:





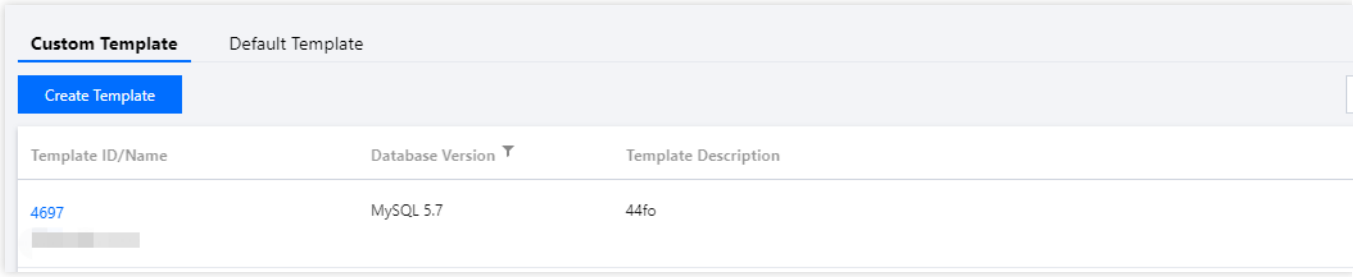
For detailed performance test data, see Performance Comparison of Parameter Templates.

Retaining the default parameter template

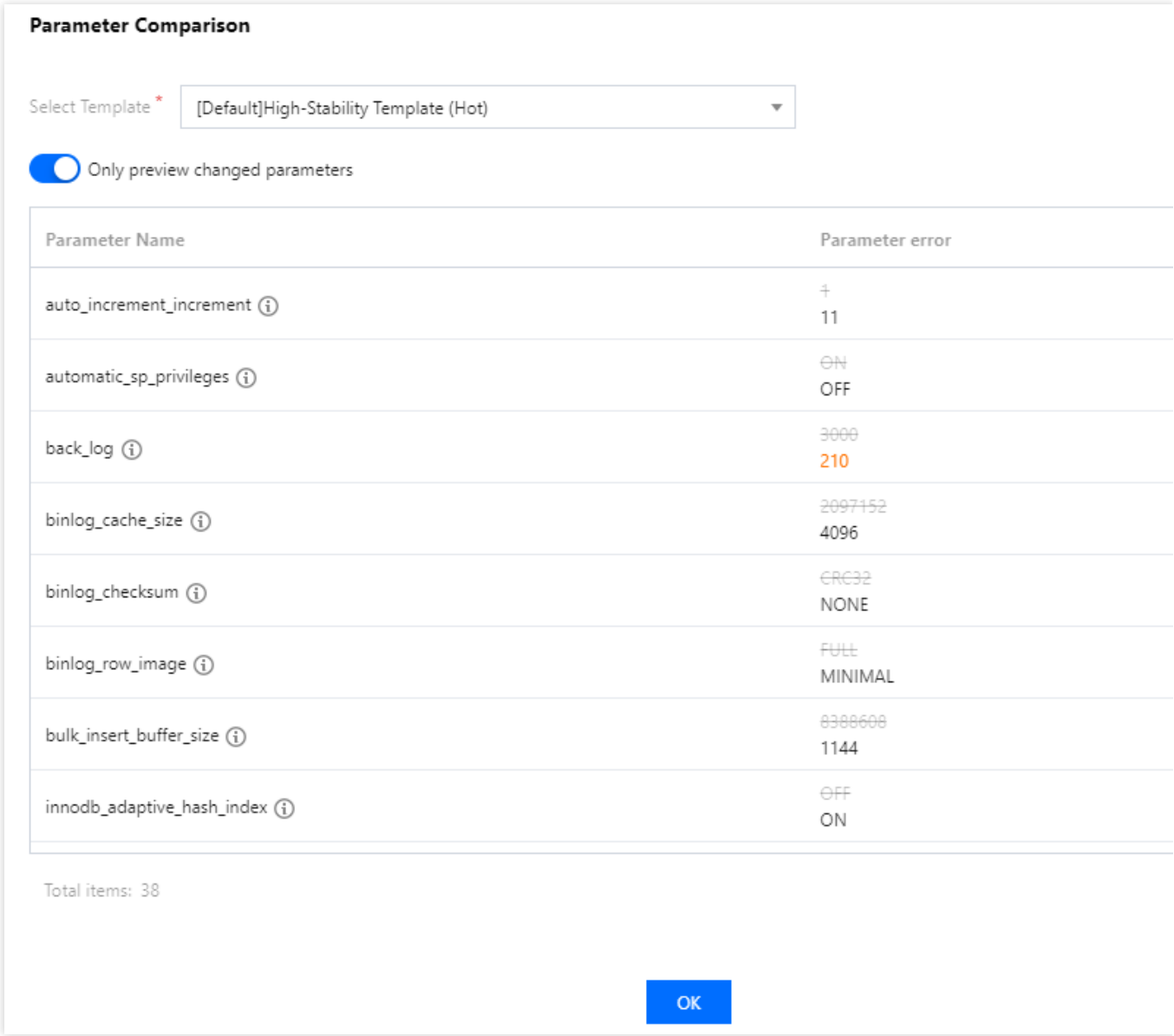
After the new parameter system is released, the original default parameter template will be replaced by the high-performance and high-stability parameter templates. Before then, you still can retain the default parameter template settings by creating a parameter template. For more information, see Managing Parameter Template.

Parameter comparison

The parameter comparison feature allows you to compare the parameters of different templates.



Click **Compare** on the parameter template page and select the templates to be compared in the pop-up window. Only templates for databases on the same version can be compared.



Contact Us

Contact us if you have any questions. Thank you for your support for Tencent Cloud. We will continue to provide you with more cost-effective products.

Binlog Will Take up Disk Space

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Binlog grows fast when a TencentDB for MySQL instance executes large transactions or lots of DML operations. MySQL's data synchronization is based on binlog which ensures database restorability, stability, and high availability, Before this upgrade, binlog files were stored in a special space provided by Tencent Cloud. As the speed of writing to binlog affects database performance, TencentDB for MySQL migrates the binlog files to high-performance SSDs (i.e., instance disk space), in order to improve database performance and stability.

Upgrade Impact

This upgrade is applicable to two-node and three-node TencentDB for MySQL instances.

Storage space

After binlog files are migrated to high-performance SSDs, they will take up the disk space of your instance.
By default, TencentDB for MySQL binlog files are stored locally (that is, in instance disk space) and automatically deleted when the retention period has elapsed. For more information, please see Configuring Local Binlog Retention Policy.

Note:
When a binlog file is generated, it is backed up via the automatic backup feature and its backup will be uploaded to COS.

Monitored metrics

After the upgrade starts, the space taken up by binlog files will be counted into the total used disk space, which may trigger alarms. We recommend the available disk space be larger than 20%.

Start Time of the Upgrade

Two-node and three-node TencentDB for MySQL in Hong Kong/Macao/Taiwan (Hong Kong, China) and regions outside the Chinese mainland: 00:00:00, April 1, 2021 (UTC+8).
Two-node and three-node TencentDB for MySQL in Southwest China (Chengdu and Chongqing): 00:00:00, April 7, 2021 (UTC+8).
Two-node and three-node TencentDB for MySQL in North China (Beijing): 00:00:00, April 14, 2021 (UTC+8).
Two-node and three-node TencentDB for MySQL in East China (Shanghai): 00:00:00, April 19, 2021 (UTC+8).
Two-node and three-node TencentDB for MySQL in South China (Guangzhou): 00:00:00, April 21, 2021 (UTC+8).

Two-node and three-node TencentDB for MySQL in newly supported regions: 00:00:00, April 22, 2021 (UTC+8).

Suggestions on Reducing Local Binlog Space

You can shorten the local binlog retention period in the console. For more information, please see Configuring Local Binlog Retention Policy.

FAQs

Will the instance expansion and reduction be affected during the upgrade?

No. Before the upgrade, the instance expansion/reduction is based on the space taken up by data files.
After the upgrade, the instance expansion/reduction is based on the total used disk space and will notify you via SMS, Message Center, etc.

Will any features be affected by the upgrade?

Currently, only the disk space utilization alarm is affected. Before the upgrade, the disk space utilization is calculated by "data file size/total disk space"; after the upgrade, it is calculated by "total used disk space/total disk space".