# TencentDB for MySQL

# Release Notes

## Product Documentation
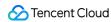
# Release Notes

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## 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 query | TencentDB for MySQL supports parallel query, which schedules and leverages multiple compute resources to greatly shorten the response time of large queries. | 12/22/2022 | Overview |

# November 2022

| Update | Description | Release Date | Documentation |
|---|---|---|---|
| Launched a new | TencentDB for MySQL has released a new | 11/2/2022 | Overview |

| version of database proxy | 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. | | |
|---|---|---|---|

# 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 Date | Documentation |
|---|---|---|---|
| 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 | 4/2/2022 | Backing up Database |

the costs compared with a single-cycle backup policy.

# 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 retention period in MySQL audit | When audit is newly enabled, you can set the log retention period to seven days. This is suitable for 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. | 2021-08 | Modifying Audit Service |
| 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 (GTID) during the delay to efficiently roll back data and fix failures. | 2020-12 | Managing the Delayed Replication of Read-Only Instance |

## 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 |
|---|---|---|---|

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|---|---|---|---|
| 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 | 2020-07 | Enabling Transparent Data Encryption |

| | | | |
|---|---|---|---|
| | compliance requirements of static 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 Date | Documentation |
|---|---|---|---|
| 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 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. | 2019-12 | Backup Space Billing |

## 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 can use the manual backup feature in the TencentDB for MySQL console or call APIs. | 2019-05 | Backing up Databases |
| 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 | 2019-02 | One-Click Connectivity |

| | external connectivity problems and offer corresponding solutions. | | 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 purchasing Basic Edition instances | TencentDB for MySQL Basic Edition adopts a 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. | 2018-06 | Overview |
| 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 | 2018-06 | TencentDB for |

| | MySQL. | | [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 is now supported | Monitoring can now be performed at a 1-minute granularity. | 2017-08 | [Monitoring](#) |
| 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

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|---|---|---|---|

| 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 |