

TencentDB for Redis

Updates and Announcements

Product Documentation



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Release Notes

Last updated : 2022-04-21 14:58:46

February 2022

Update	Description	Documentation
Supported architecture upgrade for multi-AZ deployed instances	Multi-AZ deployed instances can be upgraded from the standard architecture to cluster architecture.	Upgrading Instance Architecture
Supported instance clone for multi-AZ deployed instances	Multi-AZ deployed instances allow you to clone a complete instance from a backup file.	Cloning Data

January 2022

Update	Description	Documentation
Supported global replication	The global replication feature allows you to add and remove instances, switch instance roles, and delete replication groups.	Overview
Supported custom backup retention period	You can apply for customizing the retention period of backup files through an allowlist.	Backing up Data
Added the API for failure simulation	Instances in the same AZ support calling the `KillMasterGroup` API for failure simulation testing.	KillMasterGroup
Added the API for master-replica switch	Instances in the same AZ support calling the `ChangeReplicaToMaster` API to promote a replica node (group) to a master node for master-replica switch.	ChangeReplicaToMaster

December 2021

Update	Description	Release Date	Documentation
Supported the 256 MB memory specification for TencentDB for Redis 4.0 and 5.0 Memory Edition (Standard Architecture)	The minimum memory specification of TencentDB for Redis 4.0 and 5.0 Memory Edition (Standard Architecture) instances can be 256 MB. Currently, this is supported only in Shanghai Zone 5, Beijing Zone 6, and Guangzhou Zone 6.	2021-12	Performance

November 2021

Update	Description	Release Date	Documentation
Default parameter templates are supported	TencentDB for Redis now provides default parameter templates applicable to Redis 2.8 standard architecture, Redis 4.0 standard architecture, Redis 4.0 cluster architecture, Redis 5.0 standard architecture, and Redis 5.0 cluster architecture. You can view them on the parameter template page in the console.	2021-11	Using Parameter Templates
Public network address can be enabled	You can now enable the public network address for a TencentDB for Redis instance in the console , so that this instance can connect to a CVM in a different VPC over the public network.	2021-11	Configuring the Public Network Address

July 2021

Update	Description	Release Date	Document
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Update	Description	Release Date	Document
Supported configuring change data capture (CDC)	You can configure CDC in the console on your own. CDC records the information of all changes in a table and the median values of changed data entries, which help you better track table changes.	2021-07	CDC
Supported configuring change tracking (CT)	You can configure CT in the console on your own. CT records modifications of table rows and allows you to directly get the latest data from the track table.	2021-07	CT
Supported configuring database shrinking	You can directly shrink database in the console to avoid space waste.	2021-07	Shrinking Database
Supported configuring parameters in the console	You can view and directly modify parameters in the console and view parameter modification logs, which make parameter modification easier.	2021-07	Setting Instance Parameter
Launched 11 new system and instance monitoring metrics	4 memory and lock performance counter monitoring metrics and 7 physical machine system monitoring metrics are added for enterprise-grade users to comprehensively monitor database performance.	2021-07	Monitoring

June 2021

Update	Description	Release Date	Document
Launched high-specification instances	Dual-Server High Availability Edition, Cluster Edition, and read-only instances are now available in 64-core 512 GB and 90-core 720 GB specifications, meeting the needs of enterprise-grade users.	2021-06	-
Launched the service in Tokyo Zone 2	TencentDB for SQL Server is now available in Tokyo Zone 2.	2021-06	Regions and AZs

May 2021

Update	Description	Release Date	Document
Launched TencentDB for SQL Server 2019	TencentDB for SQL Server 2019 is officially launched and supports Basic, High Availability, and Cluster Edition instances, which have great improvements in performance, ease of use, high availability, and security.	2021-05	-
Launched the service in Beijing Zone 7	TencentDB for SQL Server is now available in Beijing Zone 7.	2021-05	Regions and AZs

December 2020

Update	Description	Release Date	Document
Supported self-service version and architecture upgrade	You can upgrade the version and architecture and scale instances in the console in a self-service manner to easily adjust instances based on your business needs.	2020-12	Adjusting Instance Specification

November 2020

Update	Description	Release Date	Document
Supported the use of tags	TencentDB for SQL Server supports using tags. You can use tags to mark different resource usages, users, and business scenarios under your account.	2020-11	-

Update	Description	Release Date	Document
Launched the service in the Chengdu region	TencentDB for SQL Server is now available in the Chengdu region.	2020-11	Regions and AZs

October 2020

Update	Description	Release Date	Document
Supported migration with DTS and optimized cold backup migration	DTS supports data migration from self-built SQL Server databases in IDCs, clouds, and other cloud vendors to TencentDB for SQL Server as well as data migration between TencentDB for SQL Server instances. Cold backup migration restores data from .bak files, which is applicable to data migration from SQL Server databases in other cloud vendors and self-built SQL Server databases to TencentDB for SQL Server. Multiple migration methods deliver an easier and more user-friendly data migration experience.	2020-10	<ul style="list-style-type: none"> • Cold Backup Migration • Migration with DTS

July 2020

Update	Description	Release Date	Document
Launched TencentDB for SQL Server Basic Edition (Standalone) Edition	TencentDB for SQL Server Basic Edition is launched, which supports cloud `sysadmin` permissions. It provides a complete set of genuinely licensed database solutions with high availability, security, and performance and light OPS.	2020-07	Architecture

March 2020

Update	Description	Release Date	Document
Supported admin accounts	TencentDB for SQL Server supports admin permissions. An admin has read/write permissions for all databases on the instance and thread management permissions and can automatically discover new databases and get their read/write permissions.	2020-03	-

January 2020

Update	Description	Release Date	Document
Supported Always On clusters	TencentDB for SQL Server 2017 Enterprise Edition instances supports adding read-only instances. The underlying Always On architecture implements the control of cluster capabilities, such as automated data replication, traffic load balancing of read-only instances, and primary/replica switch of primary instances.	2020-01	Architecture

December 2019

Update	Description	Release Date	Document
Supported setting device maintenance time	TencentDB for SQL Server supports setting the maintenance time. To ensure the stability of your TencentDB instance, the backend system performs maintenance operations on the instance during the maintenance time at irregular intervals.	2019-12	Setting Instance Maintenance Information

October 2019

Update	Description	Release Date	Document
Supported configuring security groups	A security group is a stateful virtual firewall capable of filtering. As an important means for network security isolation, it can be used to set network access controls for one or more TencentDB instances.	2019-10	Configuring Security Groups
Supported recycle bin	After a monthly subscribed or pay-as-you-go instance expires or is manually terminated, it can be automatically put in the recycle bin for retention.	2019-10	-

September 2019

Update	Description	Release Date	Document
Supported creating databases with multiple character sets available in the console	TencentDB for SQL Server supports multiple SQL Server character sets provided by Microsoft in the console for your choice when creating databases.	2019-09	Creating Database

July 2019

Update	Description	Release Date	Document
Launched the service in the Seoul region	TencentDB for SQL Server is now available in the Seoul region.	2019-07	Regions and AZs

June 2019

Update	Description	Release Date	Document
Supported pay-as-you-go billing mode	TencentDB for SQL Server supports the pay-as-you-go billing mode. You can select a billing mode based on your business needs.	2019-06	Billing Overview

May 2019

Update	Description	Release Date	Document
Supported instance configuration upgrade	The database instance specification can be upgraded, and the capacity can be expanded.	2019-05	Adjusting Instance Specification

September 2017

Update	Description	Release Date	Document
Launched SQL Server 2016	TencentDB for SQL Server is now available on SQL Server 2016.	2017-09	-

December 2016

Update	Description	Release Date	Document
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Update	Description	Release Date	Document
Supported read-only mode for replica servers	TencentDB for SQL Server supports read-only mode for replica servers. You can select memory and disks as needed to tailor the database specification for your actual business. The read-only mode is implemented through snapshots, facilitating online data analysis. It doesn't increase the costs, affect the primary database performance, or compromise high availability.	2016-12	-

May 2016

Update	Description	Release Date	Document
Supported SQL Server 2012 Enterprise Edition	TencentDB for SQL Server is now available on SQL Server 2012 Enterprise Edition, which is compatible with all features of SQL Server 2008.	2016-05	-

December 2015

Update	Description	Release Date	Document
Launched TencentDB for SQL Server officially	TencentDB for SQL Server is officially launched and provides various features such as instance management, instance details, system monitoring, database management, account management, and backup.	2015-12	Overview

Announcements

Monitoring Upgrade and Alarm Policy Changes

Last updated : 2022-04-02 10:10:59

Monitoring Granularity

TencentDB for Redis now supports one-minute and five-second monitoring granularities. Since October 2020, monitoring at the five-second granularity has been supported, providing more monitoring metrics and proxy monitoring data. For more information, see [Update Notes of Monitoring at Five-Second Granularity](#).

Changes of monitoring granularity

One-minute monitoring granularity

- Instances created before October 20, 2020 only support the [one-minute monitoring granularity](#), but they are gradually upgraded to support the five-second granularity.
- View the monitoring data in the Cloud Monitor console: [Cloud Monitor console](#) > **TencentDB** > **Redis (1-minute granularity)**.

Five-second monitoring granularity

- Instances created after October 20, 2020 support both one-minute and [five-second monitoring granularities](#).
- View the monitoring data in the Cloud Monitor console: [Cloud Monitor console](#) > **TencentDB** > **Redis (5-second granularity)**.

Notes of monitoring granularity upgrade

To support five-second monitoring granularity, the proxy of your TencentDB for Redis instances needs to be upgraded to the latest version.

Note that the proxy upgrade will cause a short disconnection. The business needs to reconnect to the proxy after the upgrade completes.

1. Upgrade by Tencent Cloud backend: Tencent Cloud is upgrading all instances to support five-second monitoring granularity. You will be notified via SMS, email, or Message Center before the upgrade starts.

2. Upgrade by yourself in the TencentDB console: you can soon manually upgrade instances in the console.
3. After all instances are upgraded, the one-minute monitoring granularity will be no longer supported.

Changes of monitoring metrics

After the monitoring granularity is narrowed from one minute to five seconds, monitoring metric names are changed and some new metrics are supported, as shown below:

Monitoring Metrics (One-minute)	Monitoring Metrics (Five-second)	Description
CpuUsMin	CpuUtil	Average CPU utilization
CpuMaxUs	CpuMaxUtil	The maximum CPU utilization of nodes (shards or replicas) in the instance
StorageMin	MemUsed	Memory capacity actually used, including data and cache
StorageUsMin	MemUtil	The ratio of the actually used memory to the requested total memory
StorageMaxUs	MemMaxUtil	The maximum memory utilization of nodes (shards or replicas) in the instance
KeysMin	Keys	The total number of keys stored in an instance (first-level keys)
ExpiredKeysMin	Expired	The number of keys expired in a time window, which is equal to the value of <code>expired_keys</code> outputted by the <code>info</code> command
EvictedKeysMin	Evicted	The number of keys evicted in a time window, which is equal to the value of <code>evicted_keys</code> outputted by the <code>info</code> command
ConnectionsMin	Connections	The number of TCP connections to an instance
ConnectionsUsMin	ConnectionsUtil	The ratio of the number of TCP connections to the maximum number of connections
InFlowMin	InFlow	Private inbound traffic

Monitoring Metrics (One-minute)	Monitoring Metrics (Five-second)	Description
InFlowUs	InBandwidthUtil	The ratio of the actually used private inbound traffic to the maximum traffic
-	InFlowLimit	The number of times inbound traffic triggers a traffic limit
OutFlowMin	OutFlow	Private outbound traffic
OutFlowUs	OutBandwidthUtil	The ratio of the actually used private outbound traffic to the maximum traffic
-	OutFlowLimit	The number of times outbound traffic triggers a traffic limit
LatencyMin	LatencyAvg	The average execution latency between the proxy and the Redis server
-	LatencyMax	The maximum execution latency between the proxy and the Redis server
-	LatencyP99	The P99 latency between the proxy and the Redis server
LatencyGetMin	LatencyRead	The average execution latency of read commands between the proxy and the Redis server
LatencySetMin	LatencyWrite	The average execution latency of write commands between the proxy and the Redis server
LatencyOtherMin	LatencyOther	The average execution latency of commands (excluding write and read commands) between the proxy and the Redis server
QpsMin	Commands	QPS, that is, the number of command executions per second
StatGetMin	CmdRead	The number of read command executions. For more information about read command types, see "Monitoring Feature > Command category".
StatSetMin	CmdWrite	The number of write command executions. For more information about write command types, see "Monitoring Feature > Command category".

Monitoring Metrics (One-minute)	Monitoring Metrics (Five-second)	Description
StatOtherMin	CmdOther	The number of command (excluding read or write commands) executions. For more information about command types, see "Monitoring Feature > Command category".
BigValueMin	CmdBigValue	The number of executions of requests larger than 32 KB per second
-	CmdKeyCount	The number of keys accessed by a command per second
-	CmdMget	The number of Mget command executions per second
SlowQueryMin	CmdSlow	The number of command executions with a latency greater than the <code>slowlog-log-slower-than</code> configuration
StatSuccessMin	CmdHits	The number of keys successfully requested by read commands, which is equal to the value of the <code>keyspace_hits</code> metric output by the <code>info</code> command
StatMissedMin	CmdMiss	The number of keys unsuccessfully requested by read commands, which is equal to the value of the <code>keyspace_misses</code> metric output by the <code>info</code> command
CmdErrMin	CmdErr	The number of command execution errors per second. For example, the command does not exist, parameters are incorrect, etc.
CacheHitRatioMin	CmdHitsRatio	Key hits/(Key hits + Key misses). This metric reflects cache misses.

Viewing the monitoring granularity of an instance

- Check the value of the `InstanceSet.MonitorVersion` field returned by the [DescribeInstances](#) API. If the value is `5s`, this instance supports the monitoring granularity of five seconds; if the value is `1m`, it supports only the monitoring granularity of one minute.
- Log in to the [TencentDB for Redis console](#), click an instance name/ID and enter the instance management page, select **System Monitoring > Monitoring Metrics**, and click the **Period**

drop-down list at the top. If you can select **5 seconds** from the drop-down list, this instance supports the monitoring granularity of five seconds, or else it supports only the monitoring granularity of one minute.

Alarm Changes

Changes of alarm policy configurations

After the monitoring metrics are upgraded, you need to configure one-minute-granularity and five-second-granularity alarm policies in different windows in the [Cloud Monitor console](#), as show below:

Basic Information

Policy Name

Notes

Monitor Type Cloud Product Monitoring

Policy Type

Project

Configure Alarm

The current account has dynamic threshold policies, and 20 more can be created.

Impact of monitoring upgrade

After the monitoring granularity is narrowed from one minute to five seconds, you need to migrate the one-minute-granularity alarm policies to the five-second-granularity alarm policies. The monitoring metrics applicable to the five-second granularity alarm policies are different from those applicable to one-minute granularity alarm policies. For more information, see [Changes of monitoring metrics](#).

After the monitoring granularity is narrowed down to five seconds:

- Monitoring data at both one-minute and five-second granularities are reported temporarily, that is, Cloud Monitor will stop reporting the one-minute-granularity data in the future.
- One-minute-granularity alarm policies are valid temporarily.
- The default five-second-granularity alarm policy is associated. Please specify alarm recipients for the default policy.

Migrating alarm policies

- Manual migration: copy the existing one-minute-granularity alarm policies as the five-second-granularity alarm policies, but you need to configure alarm recipients for the five-second-granularity alarm policies.
- Automatic migration: after the monitoring granularity upgrade completes, the existing one-minute-granularity alarm policies will be automatically migrated to the five-second-granularity alarm policies, and you will be notified via SMS, email, or Message Center.