

CDB for SQL Server

Product Intro

Product Introduction



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Product Intro

Product Overview

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About SQL Server

SQL Server is a relational database developed by Microsoft that features high scalability and performance as well as the capabilities to query, search, synchronize, report and analyze the data. So far, multiple versions of SQL Server have been released, with each version having its unique features.

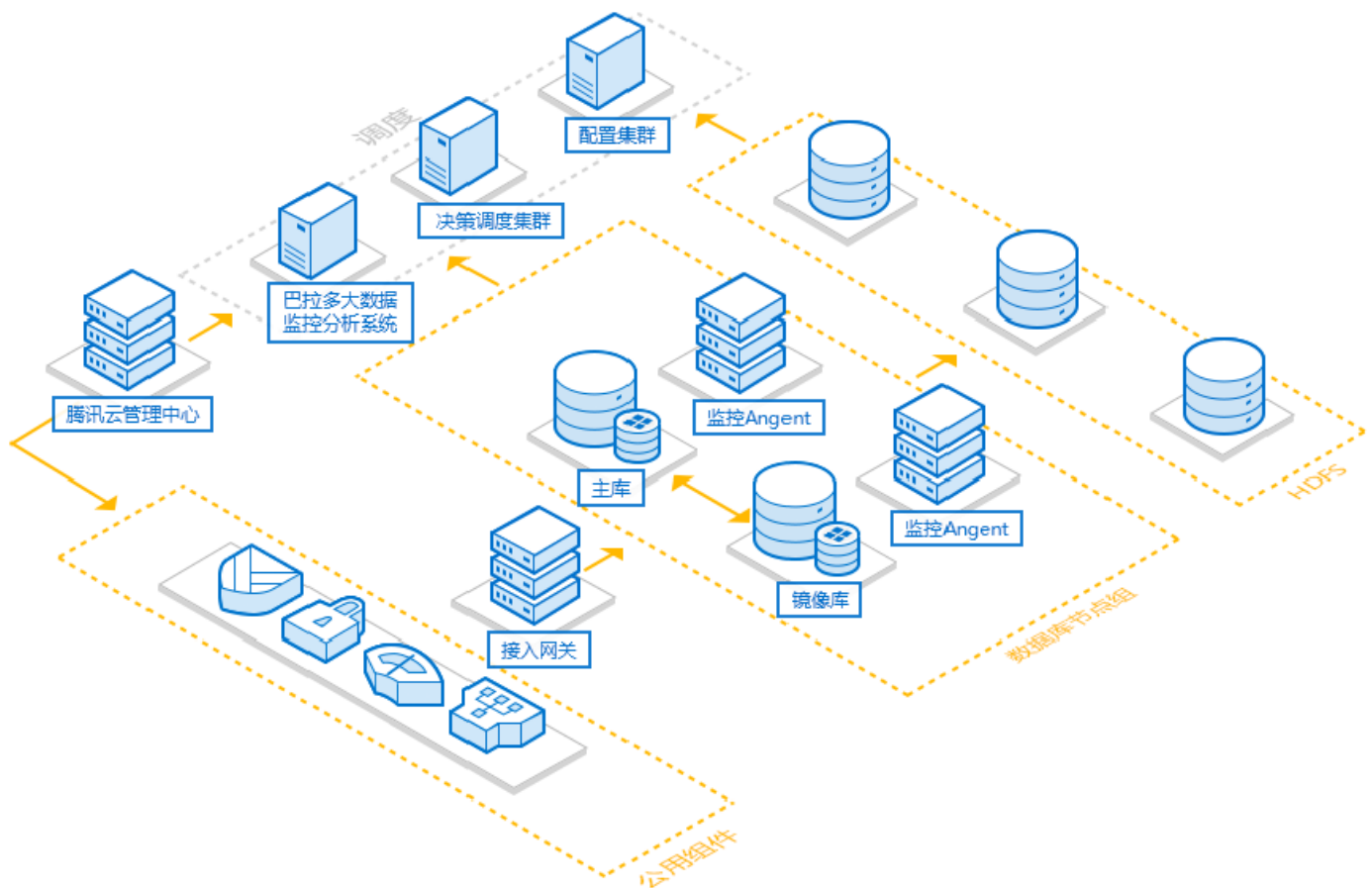
Cloud Database now supports **SQL Server 2008 R2 sp3 and 2012 sp3**, which allow the use of custom applications developed with Microsoft .NET and Visual Studio. With many new features and key improvements in the use of data in service-oriented architecture (SOA) and business processes based on Microsoft BizTalk Server, they have become the most powerful and comprehensive ever SQL Server versions. You can easily set up, operate, and extend SQL Server deployments on the cloud to respond to the rapid changes in your business needs with ease.

Product Architecture

Last updated : 2018-04-11 10:28:03

1. Background Architecture

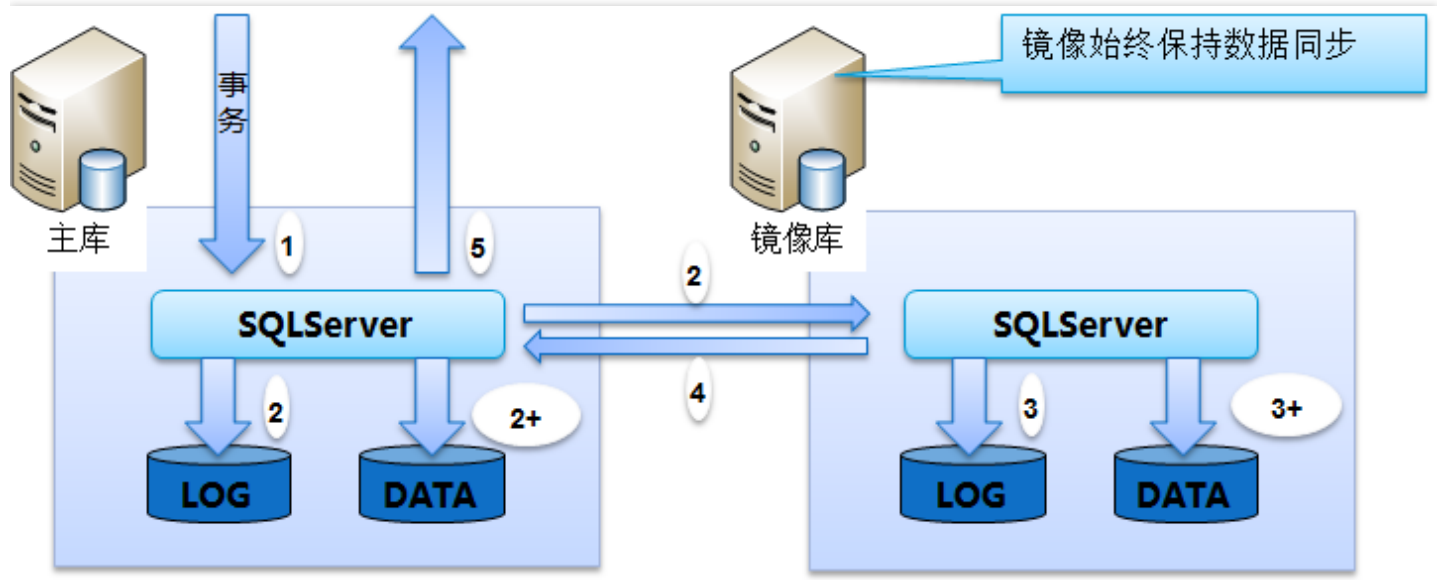
The architecture is as follows:



CDB for SQLServer is composed of a master SQLServer database and a mirror one, which are deployed cross frames, with each of them corresponding to a set of monitoring agents that monitor the database through heartbeat in real time. The independently deployed decision-making and scheduling cluster and configuration cluster, as the management and scheduling center of clusters, are responsible for managing the database node group, access gateway clusters and HDFS's normal operation. Hadoop Distributed File System (HDFS) offers disaster recovery service by providing cold backup data. Access gateway cluster provides a unique IP externally which remains unchanged upon switching of data node.

2. Database Mirroring

By default, CDB for SQLServer uses Database Mirroring scheme (high-availability replication scheme) to allow automatic failover in seconds

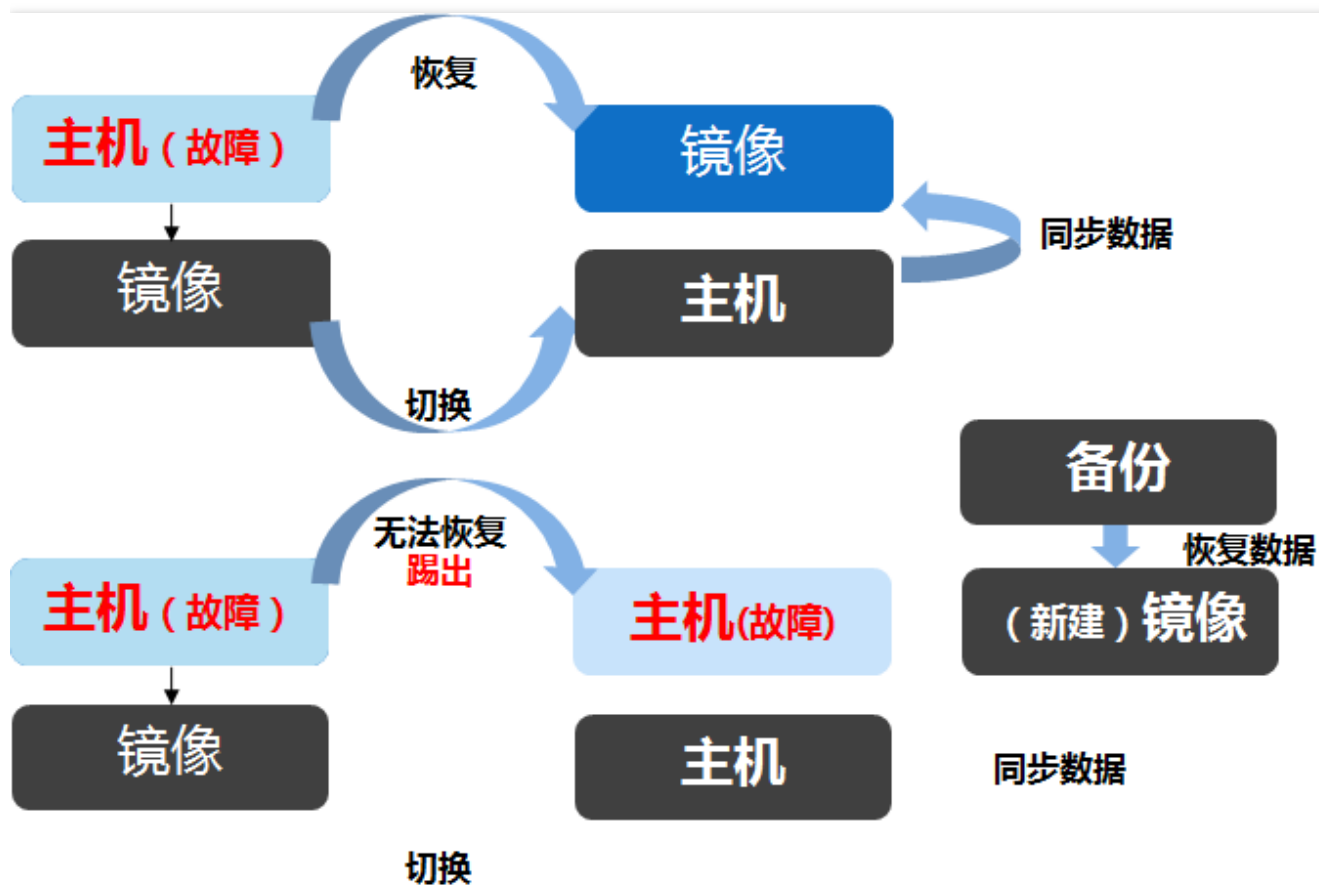


and offer high reliability with no data loss.

3. Auto-recovery of Node upon Failure

CDB for SQLServer supports automatic rebuilding of database nodes. If a node fails, it will automatically recover/rebuild the faulty node within 1 hour. The node switching is visible to the service and the

database access IP remains unchanged.



Product Advantages

Last updated : 2018-04-11 10:29:53

Offering a 70% discount for three-year users to free users from worry about cost

Tencent Cloud has paid the product license fees to Microsoft for you, eliminating your need to spend a large sum of money buying the license for the CDB for SQL Server instance and maximizing the cost-saving for your company. You just need to use the product on a pay-per-use basis at an affordable cost. Tencent Cloud offers a 70% discount for three-year users, allowing the users to enjoy cloud services without any worry about cost.

Ready to use and on-demand upgrade

You can customize the specifications for CDB For SQL Server on Tencent Cloud official website. After the order placement, target CDB For SQLServer instance will be generated in real time, saving your effort and time in setting up SQL SERVER cluster by yourself. At the early stage, you can buy small-sized CDB For SQL Server instances to deal with business needs. As database load and data storage volume change, you can flexibly adjust the instance specifications to adapt to the business environment. In addition, CDB for SQL Server can be upgraded without interruption of data link service.

Proven high-availability architecture

By default, "One Master, One Mirror" configuration is provided to allow failover in seconds to ensure the normal operation of your business.

One-click data backtracking and rollback upon misoperation

Auto-backup capability is offered to restore the data to any time point within 7 days through rollback.

License Statement

Last updated : 2018-05-30 12:21:42

With License

Tencent Cloud provides Cloud Database "**With License**", whose price covers SQL Server software license, underlying hardware resources and Tencent Cloud CDB management features. This means you don't need to buy Microsoft SQL Server license additionally.

Using Cloud Database with license, you can pay the fees based on instance specifications and usage period length without considering hardware cost and license fees, turning expensive fixed cost into low variable cost to greatly save IT cost.

Note:

- Purchasing Tencent's CDB for SQL Server doesn't mean you have purchased Microsoft SQL Server license for a long-term use. Therefore, you should not use Tencent's Cloud Database license at unauthorized location and unauthorized time. For details of the requirements, please see "[Microsoft Volume Licensing Service Provider Use Rights](#)".
- The basic price for Tencent CDB for SQL Server does not cover Microsoft and Tencent manufacture services.

Scenarios

Last updated : 2018-05-30 12:18:53

1. Cloud-based Business System

Using CDB for SQLServer as the underlying database for the business system built on cloud can provide a high-performance database supporting scheme while greatly improving performance of business system.

2. Remote (Cloud) Disaster Recovery of Data

Today, electronic data has become the core assets of enterprises, and any data loss caused by act of God or human factors can bring irreparable loss to the enterprises. However, building remote data centers independently to achieve remote disaster recovery of data has a very low input-output ratio. Therefore, Cloud Database may be a good choice as a remote disaster recovery solution.

With such networks as Direct Connect and VPN as well as database synchronization tools, enterprises can synchronize the databases at self-built data centers and other cloud vendors to the remote database instances in real time. Even if the data at self-built data centers is lost completely, the data stored in the Tencent Cloud Database remains intact.

3. Mobile Office

Cloud Database allows enterprises to rapidly deploy their mobile office platforms such as OA/ERP/Sales Management, with data stored in Tencent Cloud's secure subnets, providing multiple security protections and ensuring a high reliability.

4. Data Warehouse & Data Analysis Platform

Through the business intelligence and IT dashboard native to SQLServer as well as the collaboration scheme with SharePoint, you can build cloud-based data warehouse and data analysis platform.

5. Business Resilience

Self-built data center is not a cost-effective solution to business peak during business promotion and large-scale campaigns. You can build elastic data centers at cloud data center with cloud elastic expansion capability to achieve scale-up at any time to adapt to the changing business needs. In combination with CVM and CDB for SQLServer, the elastic data centers can help you improve business resilience.

SLA

Last updated : 2018-04-11 10:33:07

For Service Level Agreement (SLA) for CDB for SQLServer, please see [SLA for Cloud Database Services](#) in "Policies and Specifications".

Supported Version

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SQLServer Versions Supported by CDB for SQLServer

Microsoft SQL Server 2008 R2 SP3

Microsoft SQL Server 2012 SP3