

# **Data Transmission Service**

## **Product Introduction**

### **Product Documentation**



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# Product Introduction

## Overview

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## Overview

Data Transmission Service (DTS) supports the migration of MySQL, MariaDB, PostgreSQL, Redis, MongoDB and other relational databases and NoSQL database. It can help you migrate your databases without interrupting your business and build a high-availability database architecture for disaster recovery through real-time sync channels. And through data subscription, DTS can meet the requirements of business data mining, business async decoupling and other scenarios.

## Product Features

- **Data migration**

Database migration is available for different database types, under different environments. Source databases that are supported for migration include self-built databases in a public network with public IP, self-built databases with access to Tencent Cloud via VPN, direct connection or other network environments, and self-built databases in CVM. Target database is TencentDB instance. Users can check the statuses of all migration tasks and carry out multi-task batch operation.

The data migration feature of DTS is the best choice for you to migrate data onto cloud. You only need to configure a few steps for data migration, and then you can complete a series of tedious processes for migrating your local data onto the cloud. Meanwhile, the migration process does not prevent your source database from providing external service, thereby minimizing the effect on your business caused by the cloud migration task.

- **Data Sync**

The data synchronization feature of DTS implements real-time data synchronization between two TencentDB instances, which is applicable to scenarios such as remote disaster recovery. Currently, data synchronization is only supported for TencentDB for MySQL instances.

- **Data subscription**

DTS allows you to acquire real-time incremental update data of a cloud database and also to freely consume incremental data based on your business needs to achieve various business scenarios, such as implementation of cache update policy, async businesses decoupling, real-time synchronization of heterogeneous data sources and real-time synchronization of data containing complicated ETL. You can also dynamically add or delete the subscription object, view subscription

data online and modify the consumption time point.

Data subscription currently supports [Data Subscription \(Legacy\)](#) and [Data Subscription Kafka Edition](#).

# Strengths

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DTS supports data transfer between RDBMS (relational) and NoSQL (non-relational) data sources and offers a wide range of data transfer methods such as data migration, real-time data subscription, and real-time data sync. Compared with third-party data flow tools, DTS provides a wider selection of more secure, reliable, and high-performance transfer linkages as well as convenient features, greatly facilitating the creation and management of transfer linkages.

## Data Sync

DTS helps migrate your databases to TencentDB with virtually no need for shutdown during data replication. All the changes made to data in the source database during migration will be replicated to the target database, so the service provided by the source database will not be affected during the process. After the replication is completed, the source and target databases will stay in sync, and you can choose the business switch time as needed.

## High Transfer Performance

DTS uses high-spec servers to ensure that every migration or sync linkage has outstanding transfer performance. In terms of data migration, its underlying layer adopts a variety of performance optimizations that make it outperform traditional data migration tools.

## Auto Recovery from Failure

DTS boasts an extremely high availability where each node is capable of high-efficiency recovery and self-healing that enable automatic failover in a matter of seconds. Thanks to its high reliability, DTS helps you migrate your data to the cloud with no concerns over data consistency.

## Visual Operations

DTS requires no separate drivers or applications or major changes to the source database. To enable DTS, you just need to complete some simple configurations in the visual management interface presented by Tencent Cloud.

## Easy and Quick Setup

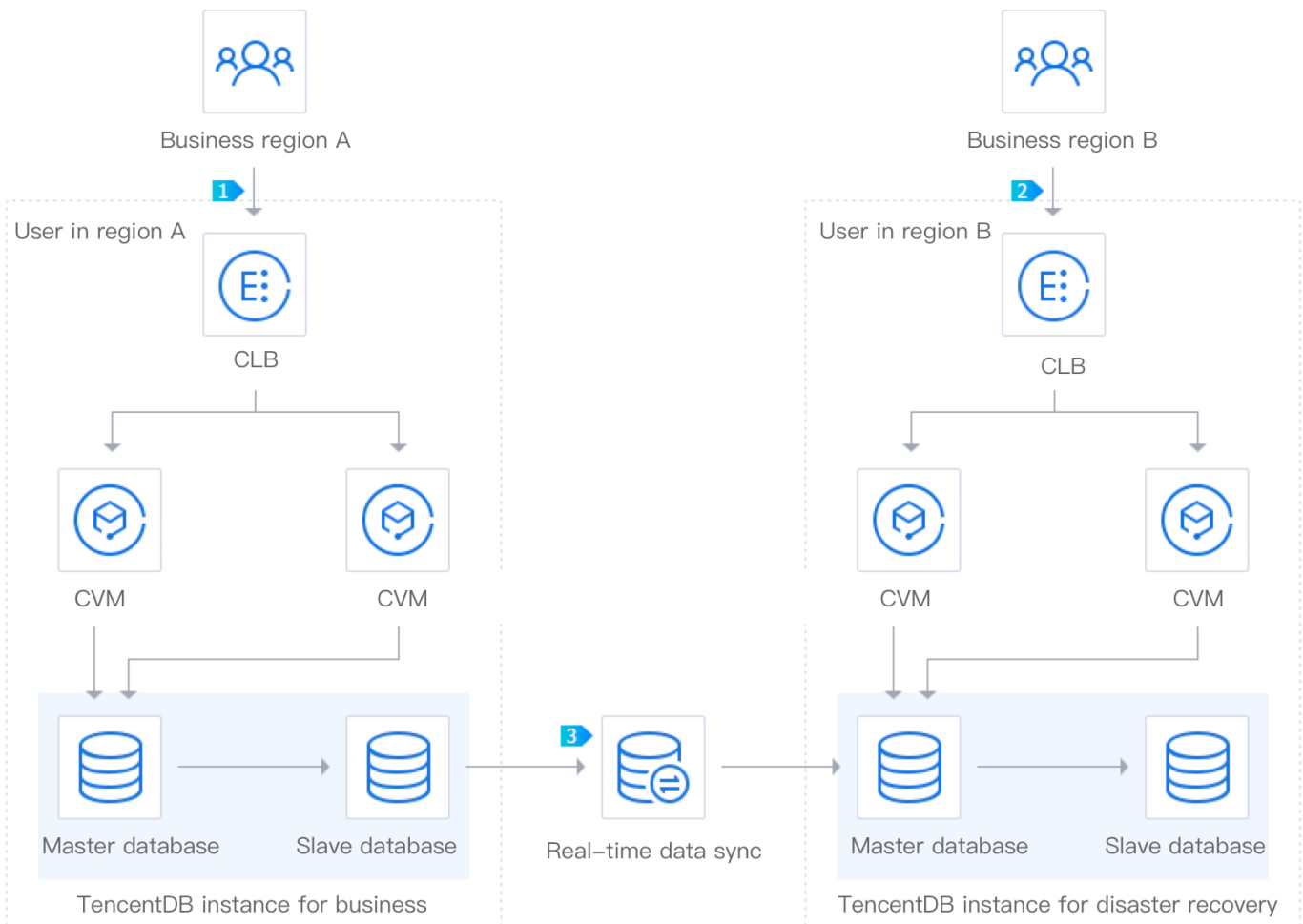
A migration task can be set within minutes in the DTS Console, where you can specify various parameters as needed to perform migration, including setting the connection between source and target databases, migration type, and objects to be migrated.

# Use Cases

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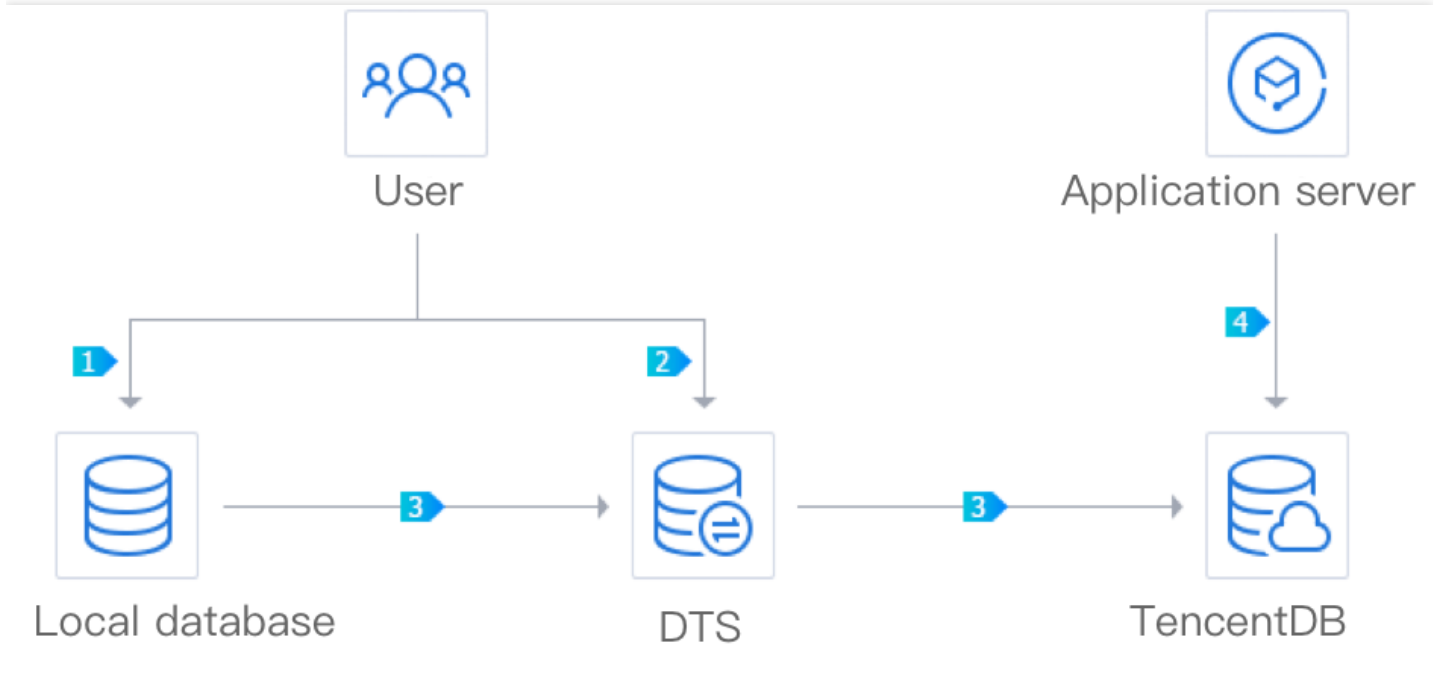
## Remote Disaster Recovery for TencentDB Instances

DTS is capable of disaster recovery sync for TencentDB disaster recovery instances based on Direct Connect over Tencent Cloud's private network. This disaster recovery architecture enables mutual redundancy between data centers in different regions, so that when a data center fails or is out of service due to force majeure, the service can be quickly switched to another data center. By optimizing database replication, DTS greatly reduces sync delay between master/slave databases and minimizes the risk of data loss caused by such delay in the event of disasters.



## Migrating Data to the Cloud

To migrate your data to Tencent Cloud, it only takes a few steps in DTS to set up data migration with no complicated configuration required. The migration process will not interrupt the service provided by your source database, thereby minimizing the impact of cloudification on your business.

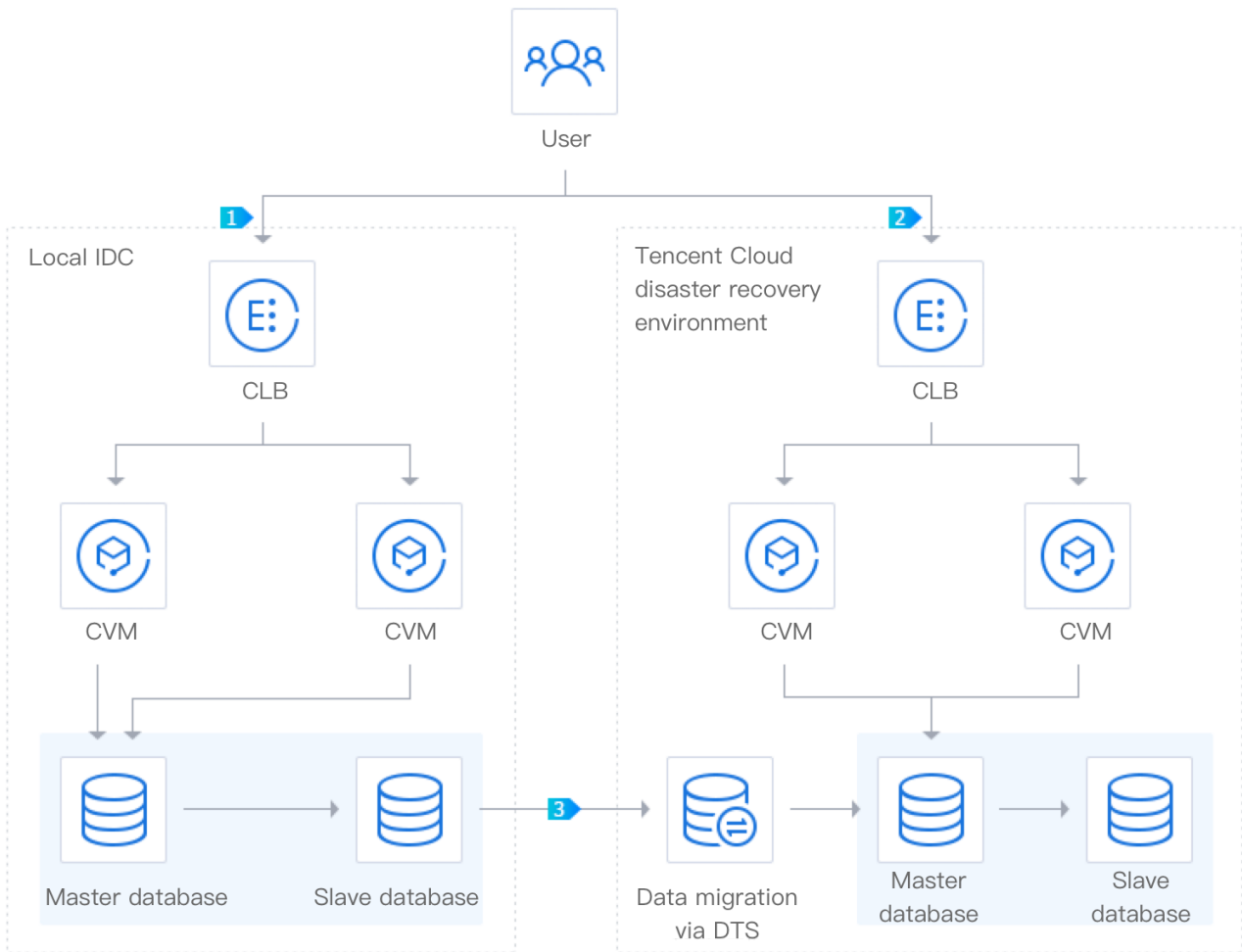


## Disaster Recovery for Local IDC

DTS supports data sync between your local IDC as business center and Tencent Cloud as disaster recovery center. This feature, together with out-of-the-box Tencent Cloud services, enables you to



implement disaster recovery for your local IDC easily without having to invest a lot in infrastructure.



## Data Archiving and Storage

The data subscription feature of DTS can help you push incrementally updated data in your TencentDB instance to an archive database or data warehouse in real time through data streams.

