

Data Transfer Service

Getting Started

Product Documentation



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Contents

Getting Started

Data Migration Guide

Data Sync Guide

Data Subscription Guide (Kafka Edition)

Getting Started

Data Migration Guide

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Relevant information

[Data Migration](#).

[Databases Supported by Data Migration](#).

Overall process

Step	Description
1. Prepare.	Before creating a data migration task, you need to prepare the source and target databases and a network environment as instructed in Preparations Overview to meet the environment requirements.
2. Create a data migration task.	This section provides only a basic sample migration task. For more scenarios, see Migration from MySQL to TencentDB for MySQL .
3. View the task progress or perform other operations.	You can view the overall migration progress and details and perform operations such as verification and retry as instructed in Viewing Task . You can view various data migration metrics as instructed in Viewing Monitoring Metric .
4. Perform the business cutover.	You need to select an appropriate time for business cutover to reduce the impact on the business. For more information, see Cutover Description .

Sample data migration task

Notes:

The following only summarizes the steps of configuring a data migration task for your reference. For detailed directions, parameters, and operation limits, see [Data Migration \(NewDTS\)](#).

1. Log in to the [DTS console](#), select **Data Migration** on the left sidebar, and click **Create Migration Task** to enter the **Create Migration Task** page.

2. On the **Create Migration Task** page, select the types, regions, and specifications of the source and target instances and click **Buy Now**.
3. On the **Set source and target databases** page, configure the task, source database, and target database settings. After the source and target databases pass the connectivity test, click **Create**.



4. On the **Set migration options and select migration objects** page, configure the migration type and objects and click **Save**.



5. On the task verification page, verify the task. After the verification is passed, click **Start Task**.

If the verification failed, you can view the specific check items and failure causes, fix the problem as prompted, and initiate the verification task again.



6. Return to the data migration task list, and you can see that the task has entered the **Preparing** status. After 1–2 minutes, the data migration task will be started.

Select **Structural migration** or **Full migration**: Once completed, the task will be stopped automatically.

Select **Full + Incremental migration**: After full migration is completed, the migration task will automatically enter the incremental data sync stage, which will not stop automatically. You need to click **Complete** to manually stop the incremental data sync.

Manually complete incremental data sync and business switchover at appropriate time.

Check whether the migration task is in the incremental sync stage without any lag. If so, stop writing data to the source database for a few minutes.

Manually complete incremental sync when the data gap between the target and the source databases is 0 KB and the time lag between them is 0 seconds.



Data Sync Guide

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References

- [Data Sync Overview](#)
- [Databases Supported by Data Sync](#)

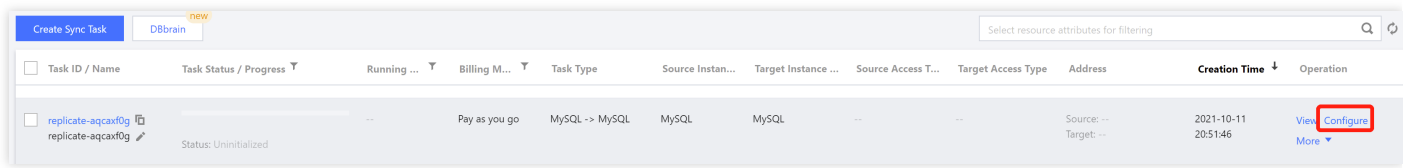
Overall process

Operation Process	Description
1. Prepare	Before creating a data sync task, you need to prepare the source and target databases and a network environment as instructed in Overview to meet the environment requirements.
2. Create a data sync task	This section provides only a basic sample sync task. For more scenarios, see Data Sync from MySQL to TencentDB for MySQL .
3. View the sync progress or perform other operations	<ul style="list-style-type: none">• You can view the overall sync progress and perform operations such as verification and retry as instructed in Viewing Task.• You can view various data sync metrics as instructed in Viewing Monitoring Metric.
4. Compare the sync items and stop the task	After the sync task is done, check whether the source and target database have the same content and manually stop the sync task as instructed in Stopping Task .

Sample data sync task

1. Log in to the [data sync purchase page](#), select appropriate configuration items, and click **Buy Now**.
2. After successful purchase, return to the [data sync list](#), and you can see the newly created data sync task. You need to configure it before you can use it.

3. In the data sync list, click **Configure** in the **Operation** column to enter the sync task configuration page.



Task ID / Name	Task Status / Progress	Running ...	Billing M...	Task Type	Source Instan...	Target Instance ...	Source Access T...	Target Access Type	Address	Creation Time	Operation
<input type="checkbox"/> replicate-aqcaxf0g replicate-aqcaxf0g	Status: Uninitialized	--	Pay as you go	MySQL -> MySQL	MySQL	MySQL	--	--	Source: -- Target: --	2021-10-11 20:51:46	View Configure More

4. On the sync task configuration page, configure the source and target instances and their accounts and passwords, test the connectivity, and click **Next**.

1 Set source and target databases > 2 Set sync options and objects > 3 Verify task

Task Configuration

Task Name *

Running Mode * Immediate execution Scheduled execution

Source Instance Settings

Source Instance Type * MySQL

Source Instance Region South China (Guangzhou)

Service Provider * Others AWS Alibaba Cloud

Access Type * Public Network Self-Build on CVM Direct Connect VPN Access Database CCN

Host Address *

Port *

Account *

Password *

Test Connectivity

Target Instance Settings

Target Instance Type * MySQL

Target Instance Region South China (Guangzhou)

Access Type * Database

Instance ID *

Account *

Password *

5. On the **Set sync options and objects** page, set the data initialization, data sync, and sync object options and click **Save and Go Next**.

✓ Set source and target databases >

2 Set sync options and objects >

3 Verify task

Data Initialization Option

Initialization Type

Structure Initialization

Full data initialization

If Target Already Exists *

Precheck and report error

Ignore and execute

Data Sync Option

Conflict Resolution Method *

Report

Ignore

Overwrite

SQL Type

DML *

Insert

Update

Delete

DDL

DDL

Custom DDL *

Sync Object Option

Up to 200 results can be displayed. If the objects you need are not shown in the result list, you can search them by object name.

Database and Table Objects of Source Instance

Search database name, supporting fuzzy match

1 database in total, with 1 found

db-dst

Refresh Select All Clear Reset

Selected Object

Unfold all Fold all

Table renaming: If needed, hover over the right side of a selected object, and the **Edit** icon will be displayed. Click it and then enter a new name in the pop-up window.

6. On the **Verify task** page, complete the verification. After all check items are passed, click **Start Task**.

Note :

If an alarm is displayed in the verification result, it will not affect the task start, but we recommend you click **View Details** to get the suggestions for adjustment.

✓ Set source and target databases > ✓ Set sync options and objects > 3 Verify task

Task ID / Name	Running Mode	Source Instance Type	Target Instance Type	Source Instance Access Type	Target Instance Access Type	Address
replicate-accavf0g replicate-accavf0g	Immediate execution	MySQL	MySQL	Database	Database	Source: cdb-rgmpawx Target: cdb-pu6uk03

Initialization: Structure initialization/Full data initialization
If Target Already Exists: Precheck and report error

SQL Type: Insert, Update, Delete
DDL: Select All
Conflict Resolution Method: Ignore
Sync Object: Unfold all Fold all

db-test (Entire database selected)

• Create Verification Task

• Query Verification Result

connect db check	Passed
necessary check	Passed
version check	Passed
source instance privilege check	Alarm View Details
simple instance param check	Passed
target instance privilege check	Passed
check if target instance has conflict content	Passed
check if there's enough space in target instance	Passed
source instance binlog param check	Passed
foreign key constraint check	Passed
view check	Passed
warning param check	Alarm View Details

Previous Verify Again Start Task

7. Return to the data sync task list, and you can see that the task has entered the **Running** status.

Note :

You can click **More > Stop** in the **Operation** column to stop a sync task. You need to ensure that data sync has been completed before stopping the task.

Task ID / Name	Running Mode	Source Instance Type	Target Instance Type	Source Instance Access Type	Target Instance Access Type	Address	Status	Start	End	Operation
replicate-accavf0g replicate-accavf0g	Immediate execution	MySQL	MySQL	Database	Database	Source: cd Target: cd	Running	2021-12-16 11:02:07	--	View Configure More

Data lag between target and source databases: 0 MB
Time lag between target and source databases: 0s

Data Subscription Guide (Kafka Edition)

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References

[Data Subscription \(Kafka Edition\)](#).

[Databases Supported by Data Subscription](#).

Overall Process

Step	Description
1. Prepare	Before creating a data subscription task, you need to prepare a network environment as instructed in Overview .
2. Create a data subscription task	This document only provides a basic sample subscription task. For more scenarios, see Creating MySQL or TDSQL for MySQL Data Subscription .
3. Manage the subscription task	For more information on operations such as modifying the subscription object, see Task Management .
4. Consume the subscribed data	Manage a consumer group and use the Kafka client to consume the data.
5. Stop the task	After the subscription task is completed, you need to manually stop it.

Sample Data Subscription Task

Note:

The following only summarizes the steps of configuring a data subscription task for your reference. For detailed directions, parameters, and operation limits, see [Creating MySQL or TDSQL for MySQL Data Subscription](#).

1. Log in to the [DTS console](#), select **Data Subscription** on the left sidebar, and click **Create Subscription**.
2. On the **Create Subscription** page, select the corresponding configuration and click **Buy Now**.
3. After successful purchase, return to the data subscription list. You need to click **Configure Subscription** in the **Operation** column to configure the newly purchased subscription before you can use it.
4. On the **Subscription Configuration** page, select the appropriate configuration items and click **Next**.
5. On the **Subscription Type and Object** page, select a subscription type and click **Save**.

6. On the **Pre-verification** page, a pre-verification task will run for 2–3 minutes. After the pre-verification is passed, click **Start** to complete data subscription task configuration.

Note

If verification fails, modify the task in the instance to be subscribed to as prompted and initiate the verification again

7. After you click **Start**, the subscription task will be initialized, which will take 3–4 minutes. After successful initialization, the task will enter the **Running** status.