

# **Alibaba Cloud Data Transmission Service**

Instance management

Issue: 20200601

# Legal disclaimer

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## Document conventions

Style	Description	Example
	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings &gt; Network &gt; Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
Courier font	Courier font is used for commands.	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[ ] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
{ } or {a b}	This format is used for a required value, where only one item can be selected.	switch {active stand}



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# 1 Upgrade instance specification

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If the current instance specification does not meet your business requirements, you can upgrade the instance specification.

## Prerequisites

- A data migration task is in the **Migrating**, **Paused**, or **Migration Failed** state.
- The task is a data migration task or a data synchronization task. You cannot upgrade the instance specifications of change tracking channels.

## Notes

- You can only upgrade instance specifications. You cannot downgrade instance specifications.
- The upgrade operation causes latency of about 5 seconds for incremental data migration and data synchronization. We recommend that you perform this operation during off-peak hours.

## Billing

- Subscription instance

Total fee for upgrading the instance specification = (Daily fee of the instance after upgrade # Daily fee of the instance before upgrade) × (Subscription expiration date # Upgrade date)



### Note:

The daily fee of an instance after the upgrade depends on the number of remaining days from the upgrade date to the expiration date.

- If the number of remaining days is less than 300 days, the fee of the instance after upgrade equals the fee offered by monthly subscription.
- If the number of remaining days is greater than or equal to 300 days, the fee of the instance after upgrade equals the fee offered by annual subscription.

- Pay-as-you-go instance

After you upgrade the specification of a pay-as-you-go instance, you are still billed on an hourly basis. The fees are calculated based on the instance specification.

For more information about the pricing of DTS, see [#unique\\_4](#).

## Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, click **Data Migration** or **Data Synchronization**.
3. Find the target instance and click **Upgrade** in the Actions column.

Task Name

Search

Sort: Default Sorting

Status: All

<input type="checkbox"/>	Instance ID/Task Name	Status	Synchronization Details	Billing Method	Synchronization Mode(All)	Actions
<input type="checkbox"/>	<div><div></div><div></div></div>	Not Configured		Pay-As-You-Go	One-Way Synchronization	<div><div>Configure Synchronization Channel</div><div>Subscription</div><div>Switch to Upgrade</div><div>More</div></div>

4. Select an instance specification and select **Data Transmission Service Agreement of Service**.



**Note:**

For more information about instance specifications, see [#unique\\_5](#) and [#unique\\_6](#).

- Select a new **specification** for your data migration task.

Configuration Upgrade

Basic

Function

Data Migration

Specification

large


large

medium

xlarge

2xlarge

Each instance specification corresponds to the performance of an data replication. For details on how to choose a link specification, refer to [Data Migration Specifications](#)>>

Price  / Hour(s)

☒ Data Transmission Service-Pay-as-you-go Agreement of Service

Contact Us

Activate

- Select a new **specification** for your data synchronization task.

Configuration Upgrade

Basic

Function

Data Synchronization

Specification

medium

medium

small


large

Each instance specification corresponds to the performance of a synchronization instance. For details on how to choose a link specification, refer to [Data Synchronization Specifications](#)>>

Synchronization Topology

One-Way Synchronization

Bidirectional Synchronization

Price  / Hour(s)

☒ Data Transmission Service-Pay-as-you-go Agreement of Service

Contact Us

Activate

**Note:**

- This topic provides a general introduction. The actual pages in the DTS console may be different.

- Before you can change the synchronization topology, you must meet all the relevant requirements. For more information, see [Upgrade synchronization topology from one-way to two-way](#).

5. Click **Activate** to complete the payment.

## 2 Upgrade synchronization topology from one-way to two-way

---

You can upgrade the synchronization topology of a data synchronization task from one-way to two-way in the DTS console.

### Prerequisites

- The types of source and destination databases of the data synchronization task are both **MySQL**.
- The synchronization topology of the data synchronization task is **one-way synchronization**.
- The status of the data synchronization task is **Synchronizing**.

### Note

- You can only upgrade the synchronization topology from one-way to two-way. You cannot downgrade the synchronization topology from two-way to one-way.
- The upgrade operation causes data synchronization latency of about 5 seconds. We recommend that you perform this operation during off-peak hours.

### Billing

- Subscription instance

Total fee for upgrading the synchronization topology = (Daily fee of the instance after upgrade # Daily fee of the instance before upgrade) × (Subscription expiration date # Upgrade date)



#### Note:

The daily fee of an instance after the upgrade depends on the number of remaining days from the upgrade date to the expiration date.

- If the number of remaining days is less than 300 days, the fee of the instance after upgrade equals the fee offered by monthly subscription.
- If the number of remaining days is greater than or equal to 300 days, the fee of the instance after upgrade equals the fee offered by annual subscription.

- Pay-as-you-go instance

After you upgrade the synchronization topology of a pay-as-you-go instance, you are still billed on an hourly basis. The fees are calculated based on the instance specification

For more information about the pricing of DTS, see [#unique\\_4](#).

## Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, click **Data Synchronization**.
3. Find the target instance and click **Upgrade** in the **Actions** column.
4. On the **Upgrade** page, set **Synchronization Topology** to **Two-Way Synchronization**.



### Note:

In this step, you can also select a new **specification**.

Configuration Upgrade

Basic	Function	Data Synchronization
	Specification	medium
	Each instance specification corresponds to the performance of a synchronization instance. For details on how to choose a link specification, refer to <a href="#">Data Synchronization Specifications&gt;&gt;</a>	
Synchronization Topology	One-Way Synchronization	Bidirectional Synchronization

Price **10.700** / Hour(s)

☒ Data Transmission Service-Pay-as-you-go Agreement of Service

**Activate**

5. Select **Data Transmission Service Agreement of Service** and click **Activate** to complete the payment.

## 3 Change the password of a database account

This topic describes how to change the password of a database account in the DTS console. If you have changed the password of your database account because of security considerations, you must update the change in the DTS console.

### Prerequisites

A data migration task, data synchronization task, or change tracking task (new) is created.



#### Note:

If you are using the previous version of the change tracking feature, you cannot change the password of a database account. On the **Change Tracking Tasks** page, you can check whether you are using the new version of the change tracking feature.

<input type="checkbox"/>	Task ID/Name	Status	Consumption Checkpoint	Data Range	Billing Method
<input type="checkbox"/>	dtsp-MySQL	New Subscripti Normal		2020-04-01 13:41:41 2020-04-09 15:09:55	Pay-As-You-Go

### Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, click **Data Migration**, **Data Synchronization**, or **Change Tracking**.
3. At the top of the page that appears, select the region where your instance resides.

Data Transmission Se...

Overview

Data Migration

Change Tracking

Data Synchronization

Operation Log

Synchronization Tasks

Singapore

Australia (Sydney)

India (Mumbai)

Japan (Tokyo)

Indonesia (Jakarta)

China (Hangzhou)

China (Shenzhen)

China (Beijing)

China (Qingdao)

China (Shanghai)

Hong Kong

US (Virginia)

US (Silicon Valley)

UAE (Dubai)

Malaysia (Kuala Lumpur)

Germany (Frankfurt)

China (Hohhot)

UK (London)

the region of the destination instance in the synchronization task.)

Refresh

Task Name

Search

Sort: Default Sorting

Status: All

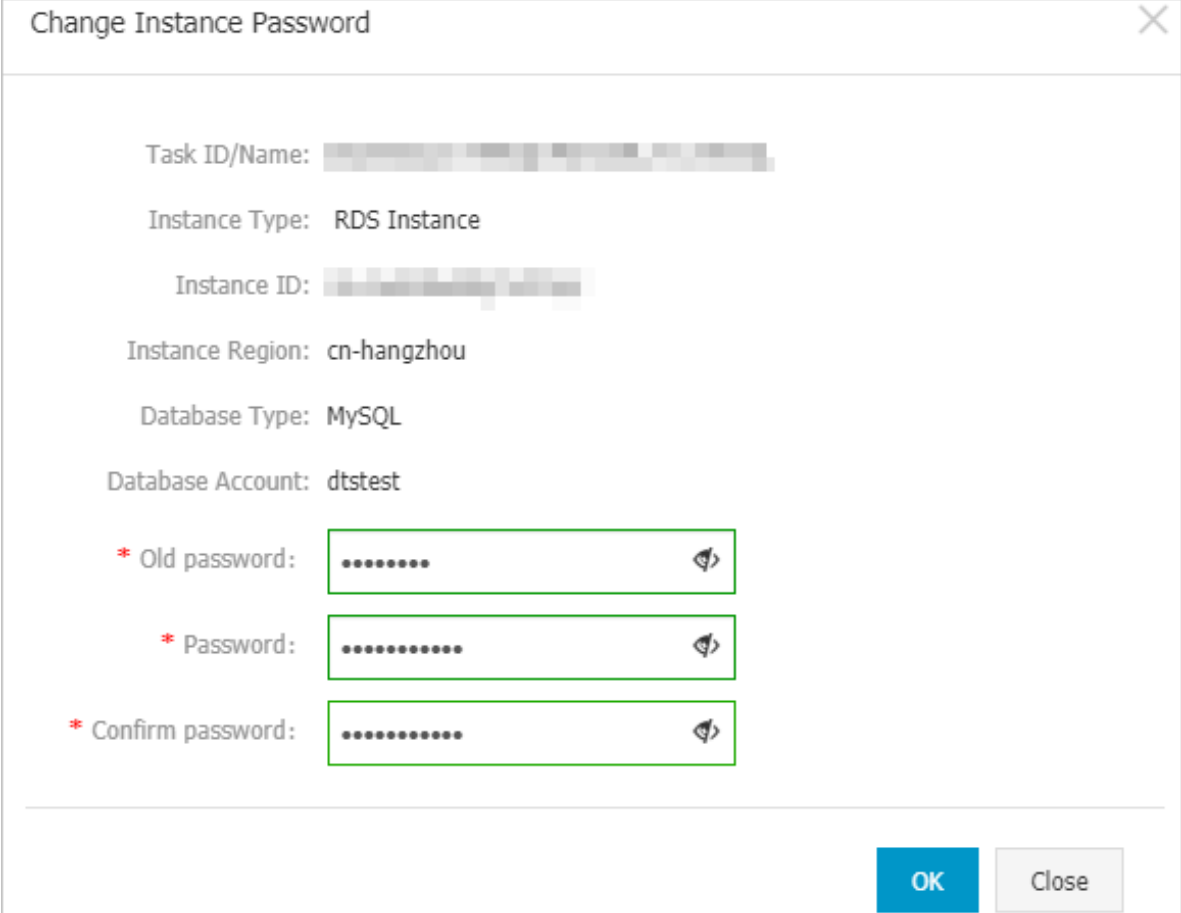
<input type="checkbox"/>	Instance ID/Task Name	Status	Synchronization Details	Billing Method	Synchronization Mode(All)
--------------------------	-----------------------	--------	-------------------------	----------------	---------------------------

4. Find the target instance and click its ID.

5. Find the target database, and click **Change Source Instance Password** or **Change Destination Instance Password**.

Configure Task	<b>Basic Information</b>	
► Migration Details	Instance ID for Migration: [REDACTED]	Task Name: MariaDB_TO_MySQL
► Performance Monitori...	Migration Types: Schema Migration+Full Data Migration+Incremental Data Migration	
Configure Monitoring...	Status:	
Task Log	<b>Connection Details</b>	
	Source Instance Type: RDS Instance	
	Instance ID: [REDACTED]	
	Account: dtstest	<b>Change Source Instance Password</b>
	Encryption: Non-encrypted	
	Destination Instance Type: RDS Instance	
	Instance ID: [REDACTED]	
	Account: dtstest	<b>Change Destination Instance Password</b>

6. In the **Change Instance Password** dialog box, enter the previous password and the new password.



The dialog box titled "Change Instance Password" contains the following fields and controls:

- Task ID/Name: [Redacted]
- Instance Type: RDS Instance
- Instance ID: [Redacted]
- Instance Region: cn-hangzhou
- Database Type: MySQL
- Database Account: dtstest
- \* Old password: [Password field with 7 dots and an eye icon]
- \* Password: [Password field with 10 dots and an eye icon]
- \* Confirm password: [Password field with 10 dots and an eye icon]
- Buttons: OK (blue) and Close (gray)

**Note:**

- **Old password:** Enter the previous password of the database account.
- **New password:** Enter the new password of the database account.
- **Confirm password:** Enter the new password again.

7. Click **OK**.

## 4 Query the operations logs of instances

You can query the operations logs of instances in the DTS console. You can obtain specific information such as performed operations, operation results, and user information.

### Note

The operations logs of instances in all regions are displayed. You do not need to select a region when querying the operations logs.

### Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, click **Operation Log**.
3. On the **Operation Logs** page, search for operations logs by using the following search conditions: **Instance ID/Task Name**, **Task Type**, **Result**, and **Time**.

Data Transmission Se...

Overview

Data Migration

Change Tracking

Data Synchronization

Operation Log

Hybrid Cloud Databas...

Help Documentation

Operation Logs

Instance ID/Task Name:

Search by instance ID or task name.

Task Type:

All

Result:

All

Time:

Search

Operated At	Instance ID/Task Name	Task Type	Actions	Result	Operated By
2019-09-19 15:04:54		Synchronization	Precheck	Successful	
2019-09-19 15:04:53		Synchronization	Objects to Modify	Successful	
2019-09-19 14:57:15		Migration	Start	Successful	
2019-09-19 14:56:52		Migration	Precheck	Successful	
2019-09-11 16:39:15		Change Tracking	Delete	Successful	
2019-09-06 14:11:05		Migration	Complete	Successful	
2019-09-06 13:54:20		Migration	Start	Successful	



### Note:

- By default, logs are sorted in descending order of operation time.
- You can click an **instance ID or task name** to view the configurations and status of the instance.

## 5 View task logs

This topic describes how to view the timeline and operational logs of a specific task. The Task Timeline tab shows important events such as instance purchase, task configuration, task running, errors, and task completion. On the Running log tab, you can search for operational logs by specifying the time range or task status.

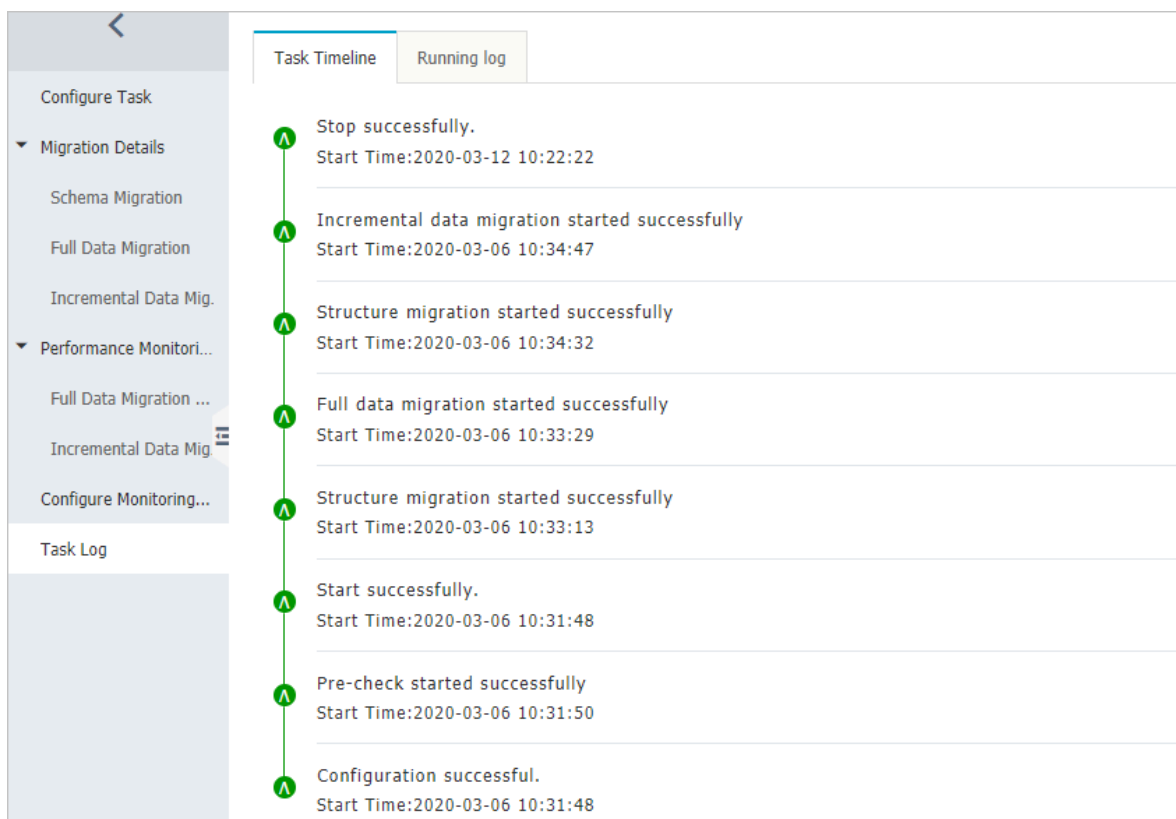
### Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, click **Data Migration**, **Data Synchronization**, or **Change Tracking**.
3. At the top of the page that appears, select the region where your instance resides.

The screenshot shows the DTS console interface. On the left is a navigation pane with 'Data Transmission Service' expanded, showing 'Overview', 'Data Migration', 'Change Tracking', 'Data Synchronization', and 'Operation Log'. The main area is titled 'Synchronization Tasks' and features a grid of region buttons: Singapore, Australia (Sydney), India (Mumbai), Japan (Tokyo), Indonesia (Jakarta), China (Hangzhou), China (Shenzhen), China (Beijing), China (Qingdao), China (Shanghai), Hong Kong, US (Virginia), US (Silicon Valley), UAE (Dubai), Malaysia (Kuala Lumpur), Germany (Frankfurt), China (Hohhot), and UK (London). Below the buttons is a text prompt: 'the region of the destination instance in the synchronization task.' To the right is a 'Refresh' button. Below this is a search bar with a 'Task Name' dropdown, a search input field, a 'Search' button, a 'Sort' dropdown set to 'Default Sorting', and a 'Status' dropdown set to 'All'. At the bottom is a table header with columns: 'Instance ID/Task Name', 'Status', 'Synchronization Details', 'Billing Method', and 'Synchronization Mode(All)'.

4. Find the target instance and click its ID.
5. In the left-side navigation pane, click **Task Log**.

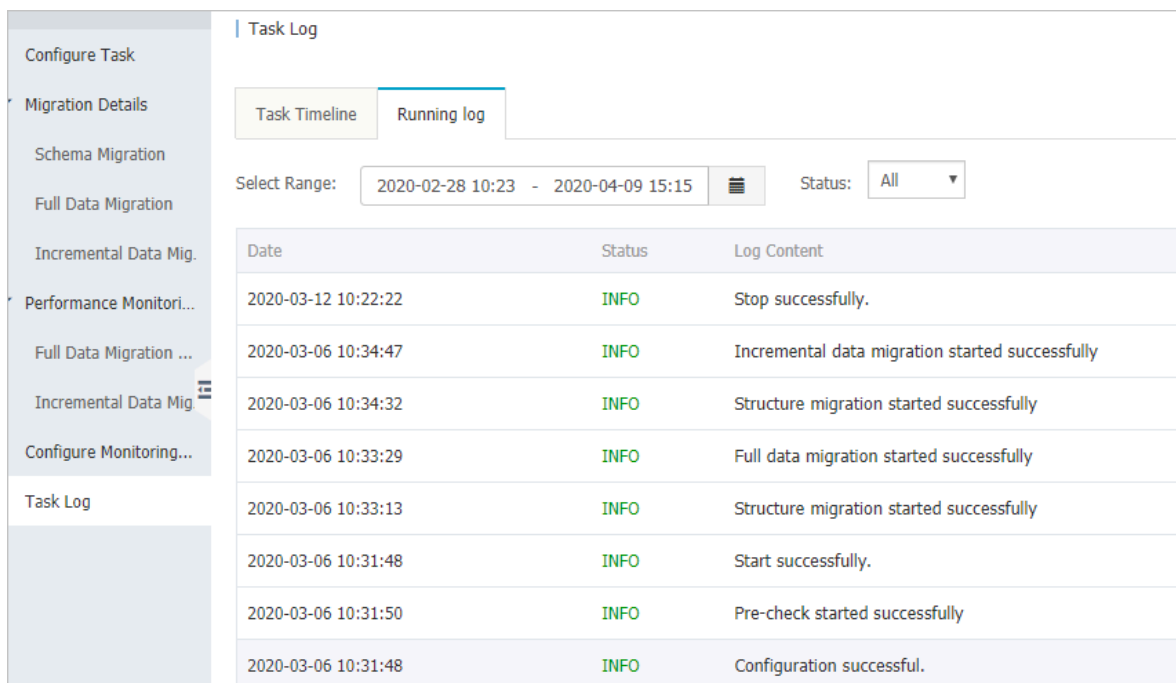
## 6. The **Task Timeline** tab is displayed by default.



The screenshot shows the 'Task Timeline' tab selected. On the left is a sidebar menu with options: 'Configure Task', 'Migration Details' (expanded), 'Schema Migration', 'Full Data Migration', 'Incremental Data Mig.', 'Performance Monitori...', 'Full Data Migration ...', 'Incremental Data Mig', 'Configure Monitoring...', and 'Task Log'. The main area displays a vertical timeline with green circular markers and upward-pointing arrows. Each marker is followed by a log entry:

- Stop successfully.  
Start Time:2020-03-12 10:22:22
- Incremental data migration started successfully  
Start Time:2020-03-06 10:34:47
- Structure migration started successfully  
Start Time:2020-03-06 10:34:32
- Full data migration started successfully  
Start Time:2020-03-06 10:33:29
- Structure migration started successfully  
Start Time:2020-03-06 10:33:13
- Start successfully.  
Start Time:2020-03-06 10:31:48
- Pre-check started successfully  
Start Time:2020-03-06 10:31:50
- Configuration successful.  
Start Time:2020-03-06 10:31:48

## 7. Click the **Running log** tab to view operational logs.



The screenshot shows the 'Running log' tab selected. The sidebar menu is the same as in the previous screenshot. The main area displays a table of operational logs. Above the table, there is a 'Select Range' field with the date range '2020-02-28 10:23 - 2020-04-09 15:15' and a 'Status' dropdown menu set to 'All'.

Date	Status	Log Content
2020-03-12 10:22:22	INFO	Stop successfully.
2020-03-06 10:34:47	INFO	Incremental data migration started successfully
2020-03-06 10:34:32	INFO	Structure migration started successfully
2020-03-06 10:33:29	INFO	Full data migration started successfully
2020-03-06 10:33:13	INFO	Structure migration started successfully
2020-03-06 10:31:48	INFO	Start successfully.
2020-03-06 10:31:50	INFO	Pre-check started successfully
2020-03-06 10:31:48	INFO	Configuration successful.



### Note:

- You can specify a time range or task status to filter operational logs.

- Only key operational logs are displayed. Detailed operational logs will be displayed in later versions.

## 6 Release an instance

You can release a pay-as-you-go instance based on your business requirements. After an instance is released, its data cannot be recovered.

### Prerequisites

The billing method of the instance is pay-as-you-go.



#### Note:

You cannot manually release a subscription instance. If you do not renew a subscription instance after it expires, the instance will be automatically released seven days later.

### Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, click **Data Migration**, **Data Synchronization**, or **Change Tracking**.
3. At the top of the page, select the region where your instance resides.

Task Name	Status	Synchronization Details	Billing Method	Synchronization Mode
Singapore-Singapore	Synchronizing	Delay: 0 Milliseconds Speed: 0TPS(0.00MB/s)	Pay-As-You-Go	One-Way Synchronization

4. Select the target instance and release it.

Task ID/Name	Status	View Details	Duplicate Task	Upgrade	Configure Monitoring and Alerting
2019-09-19 14:56:52 Created	Completed				
Full Data Migration 100%(Migrated Rows: 1)	Incremental Data Migration The migration task is not delayed.				
2019-09-06 13:50:11 Created	Completed				
Schema Migration 100%	Full Data Migration 100%(Migrated Rows: 100000)	Incremental Data Migration			

5. In the **Release Instance** message that appears, click **OK**.