

Alibaba Cloud

Data Transmission Service Instance Management

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Document conventions

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

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1. Upgrade instance specification

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 [Pricing](#).

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	Status	Synchronization Details	Billing Method	Synchronization Mode(All)	Actions
[Redacted]	Not Configured		Pay-As-You-Go	One-Way Synchronization	Configure Synchronization Channel Switch to Subscription Upgrade More

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

Note For more information about instance specifications, see [Specifications of data migration instances](#) and [Specifications of data synchronization instances](#).

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

Configuration Upgrade

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

Activate

Contact Us

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

Configuration Upgrade

Function: Data Synchronization

Specification: medium (dropdown menu with options: medium, small, large)

Synchronization Topology: One-Way Synchronization, Bidirectional Synchronization

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](#) >>

Price: [blurred] / Hour(s)

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

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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 [Pricing](#).

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 [Data Synchronization Specifications](#) >

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.
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**.

The screenshot shows the 'Configure Task' interface. On the left is a navigation pane with options: 'Migration Details', 'Performance Monitori...', 'Configure Monitoring...', and 'Task Log'. The main content area is divided into two sections: 'Basic Information' and 'Connection Details'. 'Basic Information' includes fields for 'Instance ID for Migration' and 'Task Name: MariaDB_TO_MySQL'. 'Migration Types' are listed as 'Schema Migration+Full Data Migration+Incremental Data Migration'. 'Status' is empty. 'Connection Details' includes 'Source Instance Type: RDS Instance', 'Instance ID', 'Account: dtstest', and 'Encryption: Non-encrypted'. Below this, 'Destination Instance Type: RDS Instance', 'Instance ID', and 'Account: dtstest' are shown. Two buttons, 'Change Source Instance Password' and 'Change Destination Instance Password', are highlighted with red boxes.

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

password.

Change Instance Password ✕

Task ID/Name: [REDACTED]

Instance Type: RDS Instance

Instance ID: [REDACTED]

Instance Region: cn-hangzhou

Database Type: MySQL

Database Account: dtstest

* Old password: 👁

* Password: 👁

* Confirm password: 👁

? 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

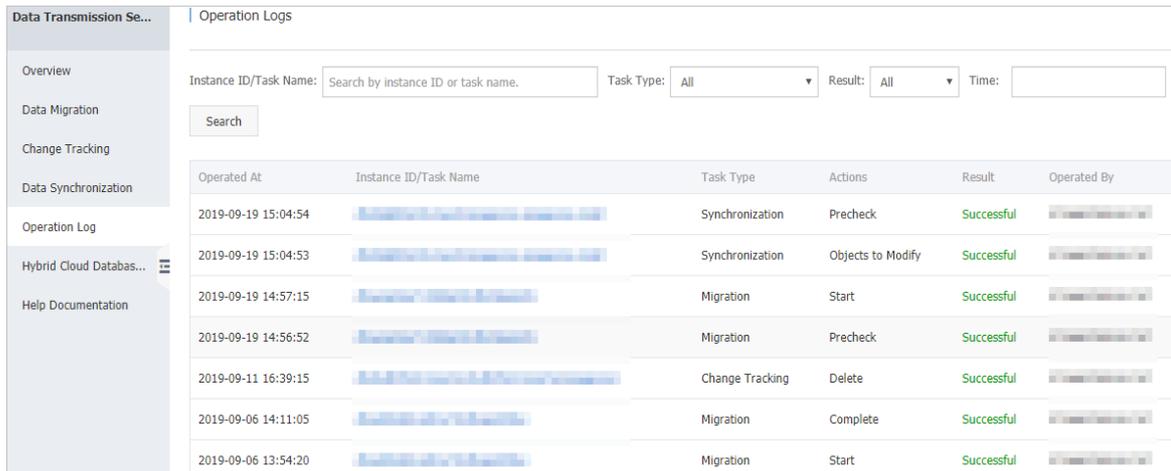
You can query the operations logs of instances in the DTS console. You can obtain specific information such as performed operations, operation results, and user information.

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**.



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

 **Note** By default, logs are sorted in descending order of operation time.

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 Synchronization**.
3. At the top of the page that appears, select the region where your instance resides.
4. Find the instance and click its ID.
5. In the left-side navigation pane, click **Task Logs**. The **Running log** tab appears.



6. Select **Incremental Data Migration** from the **Full Data Migration** drop-down list. The following figure shows the logs of incremental data migration.



7. The following table describes the parameters that are displayed in the **Log Content** column.

Parameter	Description
generator	The total amount of received incremental data.
collector	The total amount of valid data. The data includes heartbeat data, the number of DML operations, and the number of DDL operations.
replicator	The number of synchronized transactions (DML and DDL operations).

Parameter	Description
ping	The network latency, in the Minimum/Average/Maximum format. -1 indicates that DTS failed to connect to the destination database due to a network error.
execute	The total amount of time for transactions to be assembled into SQL statements, sent to the destination database, executed, and then returned. Format: Minimum/Average/Maximum.
rt	The total amount of time for transactions to be executed and committed. Format: Minimum/Average/Maximum.
state	The status of the current synchronization thread. <ul style="list-style-type: none">◦ idle: The thread is idle.◦ DML: The thread is synchronizing DML operations.◦ DDL: The thread is synchronizing DDL operations.
queries	The number of large SQL queries in the destination database. Large SQL queries are queries whose execution time exceeds 60 seconds.
exceptions	The number of exceptions. <ul style="list-style-type: none">◦ connects: the number of failed connections.◦ replicates: the number of times that the synchronization thread failed to write data to the destination database.
infos	The DDL operation or table that is being synchronized.

8. Click the **Task Timeline** tab. On this tab, you can view the timeline of important events in the task.

Running log Task Timeline Refresh

- Modify synchronization object successfully.
Start Time:28 Jun 2021, 16:17:39
- Data synchronization started successfully
Start Time:14 Apr 2021, 11:27:40
- Start successfully.
Start Time:14 Apr 2021, 11:27:36
- Suspended successfully.
Start Time:14 Apr 2021, 11:27:26
- Data synchronization started successfully
Start Time:6 Apr 2021, 11:35:26
- Structure migration started successfully
Start Time:6 Apr 2021, 11:35:05
- Full data migration started successfully
Start Time:6 Apr 2021, 11:34:25
- Structure migration started successfully
Start Time:6 Apr 2021, 11:34:02
- Pre-check started successfully
Start Time:6 Apr 2021, 11:32:00

6. Release pay-as-you-go instances

This topic describes how to release pay-as-you-go instances in the Data Transmission Service (DTS) console.

Precautions

- The billing method of the instances that you want to release must be 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.

- After an instance is released, its data cannot be recovered.
 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 instances reside.
 4. Select the instances that you want to release, and then click **Delete**.

 **Note** To release a data synchronization or change tracking instance, you can click **More** in the **Actions** column, and then select **Delete** from the shortcut menu.

5. In the **Release Instance** message, click **Confirm**.

7. Configure alert rules for DTS tasks in the CloudMonitor console

This topic describes how to configure alert rules for Data Transmission Service (DTS) tasks in the CloudMonitor console. You can configure threshold-based alert rules and event-based alert rules to help detect abnormal data and troubleshoot errors in a timely manner.

Context

CloudMonitor allows you to monitor DTS tasks based on latency and task status.

Metric	Description	Alert rule type
Latency	Monitors the latency of DTS tasks. If the latency of a task exceeds the specified threshold, an alert is triggered. Unit: milliseconds.	Threshold-based alert rule
Task status	Monitors the status change of DTS tasks. If the status of a task changes to Error or Restore , an alert is triggered.	Event-based alert rule

Configure a threshold-based alert rule

 **Note** The following example demonstrates how to configure a threshold-based alert rule in the new CloudMonitor console.

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, choose **Alerts > Alert Rules**.
3. On the **Alert Rules** page, click **Create Alert Rule**.
4. Configure parameters for the alert rule.

The following table describes the parameters.

Parameter	Description
Product	<p>The type of the DTS instance that you want to monitor. Valid values:</p> <ul style="list-style-type: none"> ◦ DTS(Migration): data migration instance ◦ DTS(Change_tracking): change tracking instance ◦ DTS(Synchronization): data synchronization instance <p> Note You can enter <i>DTS</i> in the search box to find a DTS instance type.</p>

Parameter	Description
Resource Range	<p>The range of the resources to which the alert rule is applied. Valid values:</p> <ul style="list-style-type: none"> ◦ All Resources: The alert rule is applied to all instances of the specified type. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin: 10px 0;"> <p> Note An alert rule can be applied to a maximum of 1,000 instances. If you have more than 1,000 instances, you may not receive notifications when the alert threshold is reached. We recommend that you add resources to service-specific application groups before you create an alert rule.</p> </div> <ul style="list-style-type: none"> ◦ Application Group: The alert rule is applied to all instances in the specified application group of the specified service. ◦ Instances: The alert rule is applied to one or more specific instances. If you select this option, you must select instance IDs from the Associated Resources drop-down list.
Rule Description	<p>The trigger conditions of the alert rule. To configure the trigger conditions, perform the following steps:</p> <ol style="list-style-type: none"> i. Click Add Rules. ii. Configure the Alert Rule, Metric Type, Metric, and Threshold and Alert Level parameters. iii. Click OK.
Mute For	<p>The mute period during which CloudMonitor does not resend alert notifications even if the trigger conditions are met.</p>
Effective Time	<p>The period during which the alert rule is effective. CloudMonitor monitors the specified instances and generates alerts only within the specified period.</p>
Alert Contact Group	<p>The alert contact group to which alert notifications are sent.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin: 10px 0;"> <p> Note Before you configure an alert rule, you must create an alert contact or contact group in the CloudMonitor console. For more information, see Create an alert contact or alert contact group.</p> </div>
Alert Callback	<p>Enter a callback URL that is accessible over the Internet. CloudMonitor pushes an alert notification to the specified callback URL by sending an HTTP POST request. Only the HTTP protocol is supported. For more information, see Use the alert callback feature.</p>
Auto Scaling	<p>If you turn on Auto Scaling and select a scaling rule, it is triggered when an alert is generated. You must configure the Region, ESS Group, and ESS Rule parameters.</p> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px; margin: 10px 0;"> <p> Note If you turn on Auto Scaling, you must create a scaling group. For more information, see Create a scaling group.</p> </div>

Parameter	Description
Log Service	<p>If you turn on Log Service and configure the parameters, the alert information is written to the specified Logstore in Log Service. You must configure the Region, Project Name, and Logstore parameters.</p> <p> Note If you turn on Log Service, you must create a project and a Logstore. For more information, see Getting Started.</p>
Message Service - topic	<p>If you turn on Message Service - topic and configure the parameters, the alert information is written to the specified topic in Message Service (MNS). You must configure the Region and topicName parameters.</p> <p> Note If you turn on Message Service - topic, you must create a topic. For more information, see Create a topic.</p>
No data alarm processing method	<p>The method that is used to handle alerts when no monitoring data is found. Valid values:</p> <ul style="list-style-type: none"> ◦ Do not do anything (default value) ◦ Send no data alarm ◦ Treated as normal

5. Click **OK**.

Configure an event-based alert rule

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, choose **Event Monitoring > System Event**.
3. Click the **Event Alert** tab. On this tab, click **Create Alert Rule**.
4. Configure parameters for the alert rule.

Parameter	Description
Alert Rule Name	Enter the name of the alert rule.
Product Type	Select Data Transmission .
Event Type	Keep the default value All types .
Event Level	Keep the default value All Levels .
Event Name	Select one or more event names from the drop-down list. If a DTS task (data migration task, data synchronization task, or change tracking task) is resumed or encounters an error, an alert is triggered.
Resource Range	Select All Resources or Application Group . If you select Application Group , you must select an application group from the drop-down list.

Parameter	Description
Notification Method	Select an alert notification method. For more information about the parameters, see the table in Step 4 .

5. Click **OK**.

8.Tag management

8.1. Create or bind tags

If you have a large number of instances, you can create multiple tags and bind tags to specific instances. Then, you can filter instances by tag.

Precautions

- A tag consists of a key-value pair. Each key must be unique for an Alibaba Cloud account in a region. This limit does not apply to the values of keys.

 **Note** A key can have zero to multiple values.

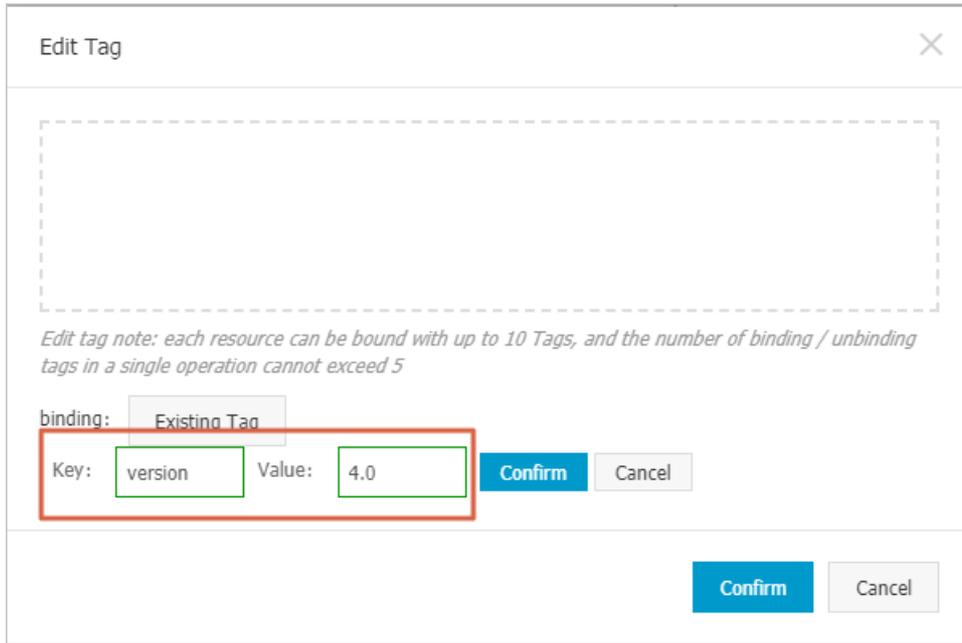
- You can edit tags for a maximum of 50 instances at a time.
- You can bind up to 10 tags to an instance.
- You can bind or unbind up to 5 tags for a instance at a time.

Procedure

1. Log on to the [DTS console](#).
2. In the left-side navigation pane, select **Data Migration**, **Data Synchronization**, **Change Tracking**, or **Data Integration**.
3. At the top of the page that appears, select the region where your instance resides.
4. You can create tags for a single or multiple instances based on your business needs.
 - Create tags for a single instance
Click **Edit Tag** in the Actions column of the instance.
 - Create tags for multiple instances
Select the instances and click **Edit Tag** below the instance list.
5. In the dialog box that appears, click **Create Tag**.

 **Note** If you have created tags, click **Existing Tag** to bind the tags to the instances.

6. Set the key and value of the tag and then click **Confirm**.
Set the key and value of the tag



- Repeat Step 5 and Step 6 to create all the tags. Then, click **Confirm** in the lower-right corner of the dialog box.

? **Note** After you create a tag for an instance, you can bind the tag to other instances.

Related API operation

Operation	Description
TagResources	Binds tags to one or more data migration, data synchronization, or change tracking instances.

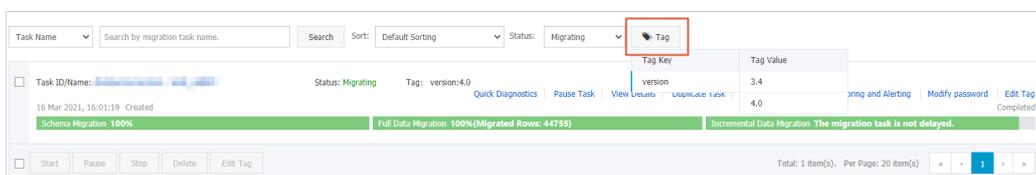
8.2. Filter DTS instances by tag

After you bind tags to a Data Transmission Service (DTS) instance, you can search for the instance by tag in the instance list. Then, you can manage the instance based on your needs.

Procedure

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

Show tags



5. Select the tag key and tag value.

Note

- After you create a tag or update an existing tag, you must refresh the page to update the tag list.
- To clear a filter condition, click the  icon next to the selected tag.

Related API operation

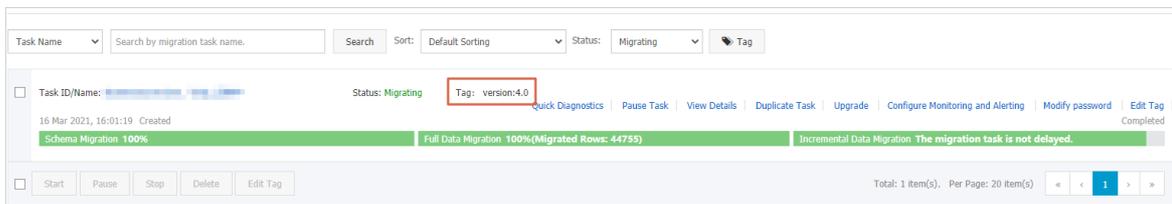
API operation	Description
ListTagResources	Queries the tags that are bound to specific data migration, data synchronization, or change tracking instances, or queries the instances to which specific tags are bound.

8.3. View the tags bound to a DTS instance

After you bind tags to a Data Transmission Service (DTS) instance, you can view the tags in the instance list.

Procedure

- Log on to the [DTS console](#).
- In the left-side navigation pane, select **Data Migration**, **Data Synchronization**, **Change Tracking**, or **Data Integration**.
- At the top of the page that appears, select the region where your instance resides.
- In the instance list, view the tags that are bound to your instance.



Related API operation

API operation	Description
ListTagResources	Queries the tags that are bound to specific DTS instances, or queries the DTS instances to which specific tags are bound.

8.4. Unbind or delete tags

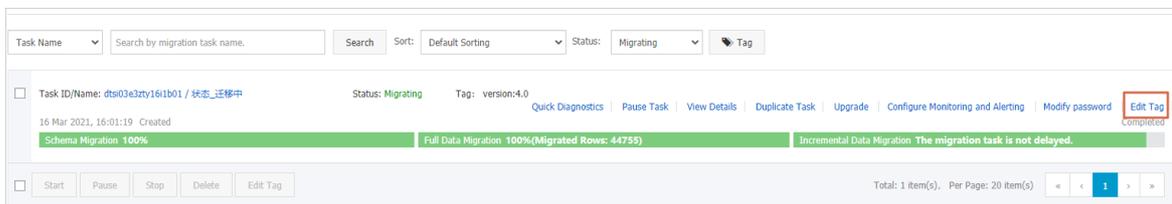
You can unbind tags from a Data Transmission Service (DTS) instance.

Precautions

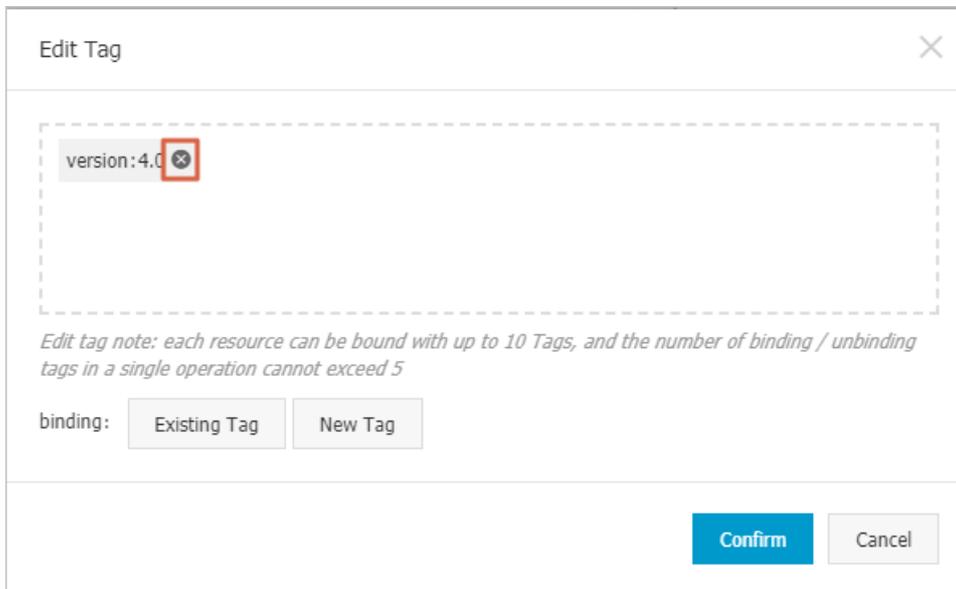
- You can unbind up to 5 tags at a time.
- If you unbind a tag from all instances, the tag is automatically deleted.
- When you unbind tags from an instance, the instance is not negatively affected.
- If you unbind all tags from an instance, you can no longer filter the instance by tag.

Procedure

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



5. In the dialog box that appears, click the  icon next to the tag that you want to unbind.



 **Note** To delete a tag, unbind the tag from all instances.

6. Click **OK**.

Related API operation

API operation	Description
UntagResources	Unbinds tags from one or more DTS instances.