Migration Center User Guide

FAQs

Issue 01

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Product Consultation

1.1 How Do I Assign the Permissions Required for Using MgC to IAM Users?

You can assign the required permissions to an IAM user by referring to **Creating a User and Granting MgC Permissions** or **MgC Custom Policies**.

1.2 Where Is MgC Available?

MgC is available in the **EU-Dublin** region. While MgC is a region-level service, it offers global capabilities, allowing you to migrate to any region on the cloud.

1.3 How Do I Prepare for Using MgC?

- 1. Sign up for a HUAWEI ID, enable Huawei Cloud services, and complete realname authentication.
- 2. If you need to access MgC as an IAM user, **configure MgC permissions** for the IAM user.
- 3. Obtain an AK/SK pair for the account or IAM user you use to access MgC.

1.4 How Do I Fix the Error "Failed to access IAM. Check the current user's IAM permissions"?

Symptom

When you used the TCO analysis or resource recommendation function, the message "Failed to access IAM. Check the current user's IAM permissions" was displayed.

Possible Causes

The login account does not have the IAM ReadOnly permission.

Solution

Assign the IAM ReadOnly permission to your account. For details, see Assigning Permissions to an IAM User.

1.5 Why Can't I Sign the Privacy Statement and Use MgC?

Symptom

When you logged in the MgC console, a message was displayed indicating that you had not signed the privacy statement.

Possible Causes

Your account is restricted or in arrears.

Solution

Rectify account issues by referring to In What Circumstances Will Huawei Cloud Services Be Restricted? Return to the MgC console and try again.

1.6 How Does MgC Ensure Data Security?

MgC uses the following methods to ensure the security of collected data:

- **Encrypted data transmission**: Encryption technologies are used to ensure data security during transmission.
- Local encrypted storage of credentials: The credentials you provided for the MgC Agent are encrypted and stored locally and are not transmitted to the cloud over the Internet.
- Local storage of collected data: Data collected offline by the MgC Agent is stored locally. Before uploading the locally stored data to the cloud for analysis, you can manually review the data and confirm that there are no security risks.

1.7 Does Data Collection Affect My Source Services?

MgC uses an efficient data collection algorithm to ensure that data collection can be completed within a short period of time. This effectively prevents the collection process from occupying source resource for a long time and minimizes the impacts on source services.

2 Network Settings

2.1 What Can I Do If a Source Server Fails the Migration Readiness Check Because Its IP address or Port Is Unreachable?

Symptom

A Linux source server failed the migration readiness check, and a message is displayed indicating that its IP address or port was unreachable.

Possible Causes

The possible causes are:

- The source server is stopped.
- The IP address or port of the source server is abnormal.
- The access is blocked by the firewall or antivirus software on the source server.

You can review the error cause in the log file on the MgC Agent. The error log file is stored in **C:\Edge\logs\edge-server\error.log**.

Solution

- **Step 1** Check whether the source server is stopped.
 - If it is, start the source server and try again.
 - If it is not, go to step 2.
- Step 2 On the server where the MgC Agent is installed, open the CLI and use ping and telnet check whether the source server's public IP address and port (for example, 22) are accessible. The command formats are ping {IP address of the source server} and telnet {IP address of the source server} {Port}.
 - If both the IP address and port are reachable, go to step 3.

- If the IP address or port is unreachable, check whether the security group of the source server allows access from the public IP address of the server with the MgC Agent installed over TCP on port 22 and over ICMP on any port. If the security group is correctly configured, perform the migration readiness check again.
- **Step 3** Check whether the access is blocked by the firewall or antivirus software on the source server. If it is, disable or adjust the blocking rule and try again.

----End

2.2 What Can I Do If a Source Server Fails the Migration Readiness Check Because the Username or Password Is Incorrect?

Symptom

A source server failed the migration readiness check, and the system displayed a message indicating that the username or password was incorrect.

Possible Causes

The username and password provided in the selected credential do not match the source server.

Solution

Step 1 Check the credential information.

Check whether the username and password in the credential are correct. Pay attention to letter cases and special characters.

Step 2 Verify the credential's validity.

Use the verified username and password to log in to the source server.

- If the login is successful, update the source server's credential information on the MgC Agent and perform the migration readiness check again.
- If the login fails, the username or password is incorrect. Proceed with the subsequent steps.
- **Step 3** Reset the password or contact the administrator of the source server.
 - If you confirm that the username is correct but forget the password, reset the
 password. If the source server is a Huawei Cloud ECS, follow the instructions
 in Resetting the Password for Logging In to an ECS on the Management
 Console. If the source server is not a Huawei Cloud ECS, find an appropriate
 method to reset the password.
 - If you are not sure whether the username is correct, contact the administrator of the source server to obtain the correct username and password.

Step 4 Update the source server's credential information on the MgC Agent, and perform the migration readiness check again.

----End

2.3 How Do I Fix the Error "Deliver Command to Edge Failed" When a Source Server Fails the Migration Readiness Check?

Symptom

A Windows source server failed the migration readiness check, and the message "Deliver command to Edge failed" was displayed.

Possible Causes

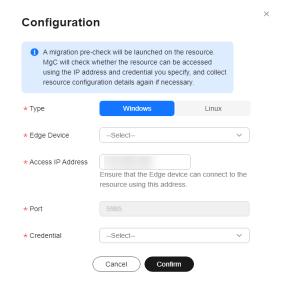
The possible causes are:

- The provided access IP address is incorrect.
- The source server is stopped.
- The IP address or port of the source server is abnormal.

You can review the error cause in the log file on the MgC Agent. The error log file is stored in **C:\Edge\logs\edge-server\error.log**.

Solution

- **Step 1** Check whether the access IP address configured for performing the migration readiness check is correct. Ensure that the MgC Agent can connect to the source server through the provided IP address and port.
 - If the address is incorrect, correct it and try again.
 - If the address is correct, go to step 2.



- **Step 2** Check whether the source server is stopped.
 - If it is, start the source server and try again.
 - If it is not, go to step 3.
- **Step 3** On the server where the MgC Agent is installed, open the CLI and run the **telnet** command to check whether the port (for example, port 5985) of the source server is accessible. The command format is **telnet** {IP address of the source server} {Port}.
 - If the port is reachable, go to **step 4**.
 - If the port is unreachable, check whether the security group of the source server allows access from the public IP address of the server with the MgC Agent installed over TCP on port 5985 and over ICMP on any port. If the security group is correctly configured, perform the migration readiness check again.
- **Step 4** Check whether the access is blocked by the firewall or antivirus software on the source server. If it is, disable or adjust the blocking rule and try again.

----End

2.4 What Can I Do If a Source Server Fails the Migration Readiness Check Due to an Unreachable Port, Incorrect Firewall Settings, or Insufficient Access Permissions?

Symptom

A source server failed the migration readiness check, and a message was displayed, indicating that the port was unreachable, the firewall settings were incorrect, or the access permissions were insufficient.

Possible Causes

The provided access port is incorrect.

Solution

- **Step 1** Check whether the port configured for performing the migration readiness check is correct. The default port is **5985** for Windows and **22** for Linux. You can use a different port as needed.
 - If the port is incorrect, correct it and try again.
 - If the port is correct, go to step 2.
- **Step 2** On the server where the MgC Agent is installed, open the CLI and run the **telnet** command to check whether the port of the source server is accessible. The command format is **telnet** *{IP address of the source server} {Port}.*

If the port is unreachable, check whether the security group of the source server allows access from the public IP address of the server with the MgC Agent

installed over TCP on port 5985 (for Windows) or port 22 (for Linux) and over ICMP on any port. If the security group is correctly configured, perform the migration readiness check again.

----End

2.5 What Can I Do If Deep Collection Fails on a Source Server Due to Disabled WinRM or an Unreachable IP Address or Port?

Symptom

Deep collection failed on a source server, and a message was displayed, indicating that WinRM was not enabled on the source server or the IP address or port was unreachable.

Possible Causes

The possible causes are:

- The IP address or port of the source server is abnormal.
- WinRM is not enabled on the Windows source server.

You can review the error cause in the log file on the MgC Agent. The file is located at C:\Edge\tools\plugins\collectors\designcenter-collector-server\logs \designcenter-collector-server\run.log.

If the fault is not caused by the preceding two reasons, check whether the MgC Agent is being used by multiple users for data collection simultaneously. In such cases, WinRM on the MgC Agent server may disconnect from the source server.

Solution

• Linux

On the server where the MgC Agent is installed, open the CLI and use **ping** and **telnet** check whether the source server's public IP address and port (22 by default) are accessible. The command formats are **ping** {IP address of the source server} and **telnet** {IP address of the source server} {Port}.

If the IP address or port is unreachable, check whether the security group of the source server allows access from the public IP address of the server with the MgC Agent installed over TCP on port 22 and over ICMP on any port. If the security group is correctly configured, perform deep collection again.

Windows

- Log in to the source server and enable WinRM. For details, see How Do I
 Configure WinRM and Troubleshoot WinRM Connection Problems?
 After WinRM is enabled, perform deep collection again. If the fault persists, go to step 2.
- b. On the server where the MgC Agent is installed, open the CLI and use **ping** and **telnet** check whether the source server's public IP address and

port (5985 by default) are accessible. The command formats are **ping** {IP address of the source server} and **telnet** {IP address of the source server} {Port}.

If the IP address or port is unreachable, check whether the security group of the source server allows access from the public IP address of the server with the MgC Agent installed over TCP on port 5985 and over ICMP on any port. If the security group is correctly configured, perform deep collection again.

3 Server Migration

3.1 Why the Workflow Status Is Always "Running"?

In a migration workflow, the **StartMigration** and **StartSynchronization** steps take a long time, but other steps usually take less than 3 minutes. If your workflow has stalled for a long time, one possible cause is that the step execution results reported by the MgC Agent to MgC were lost.

Solutions

- Solution 1: Click the workflow name. On the Servers tab of the workflow details page, you can view the status of the workflow on each source server.
- Solution 2: Contact technical support to check whether the tasks have been properly submitted and received.

3.2 How Do I View the Migration Progress When the Migration Workflow Is in the Running State?

There are two ways you can view the migration progress:

• In the workflow list, click the workflow name. On the workflow details page, you can view the migration progress of each server in the workflow.

When the migration of server reaches **StartMigration** or **StartSynchronization**, click the target server name to go to the task details page on the SMS console. **Figure 3-1** shows an example.

Figure 3-1 Migration stage



• Go to the SMS console to view the migration progress of each server.

3.3 How Do I Fix the Error "Edge is not accessible" When a Step in the Migration Workflow Fails?

The MgC Agent cannot access the source servers. To resolve this problem, ensure that:

- The MgC Agent server can access port 5985 on Windows source servers.
- The MgC Agent server can access port 22 on Linux source servers.
- Any firewall or antivirus software has been stopped and WinRM has been enabled on Windows source servers. You can run winrm quickconfig to enable WinRM.

3.4 How Do I Fix the Error "Server Require to Bind Credential First..." When the Migration Workflow Fails on a Source Server?

Possible Causes

The source server's credential has not been added to the MgC Agent.

Solution

Add the source server's credential to the MgC Agent, so the MgC Agent can collect the source server information. For details, see **Adding Credentials** and **Discovering Servers**.

3.5 How Do I Handle Resource Exceptions during a Batch Server Migration?

- 1. When a large number of servers are migrated, APIs are frequently called. Errors may be reported in some steps due to heavy API requests. You are advised to confirm the steps after the checkpoint in batches or try again.
- 2. When a large number of servers are migrated, the communication channel may be blocked, and the workflow status cannot be properly displayed.

3.6 What Are the Known Errors Related to Server Migration Workflows and How Can I Fix Them?

These error messages start with **SMS-Workflow**. You can find the solutions in **Known Errors and Solutions**.

3.7 What Can I Do If an Error Occurs During the Migration of a VMware Server?

Symptom

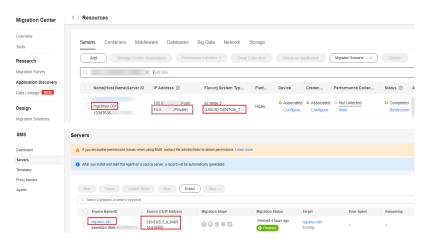
During the migration of VMware servers, an unknown error was reported during the source check in step 2.

Possible Causes

When the server was created, the preselected OS version was inconsistent with the OS version contained in the used image. For example, CentOS 6 is selected but CentOS 7 is actually used. There will be compatibility issues when the server is migrated, even though the server runs properly on VMware. You are advised to use the image with the same OS as the preselected OS when creating a server on VMware.

3.8 What Are the Information Mappings Between MgC and SMS?

The following figure shows the server information mapping between MgC and SMS.



The following table lists the mapping between the server lists on the MgC and SMS consoles.

Server List on MgC	Server List on SMS	Description
Hostname	Source Name	Hostname of a source server
IP Address	Source IP Address	IP address of a source server
Image	Source OS	OS of a source server

Server List on MgC	Server List on SMS	Description
-	Target	Name of the paired target server

Viewing a Server Migration Task Created by MgC on SMS

In a server migration workflow on MgC, after the **StartUpAgent** step is complete, a migration task is automatically created on SMS and the task is in the ready status, as shown in **Figure 3-2** and **Figure 3-3**.

Figure 3-2 Step for starting the migration Agent



Figure 3-3 Server list on SMS



Viewing the Real-Time Migration Status

When a server migration workflow reaches the **StartMigration** or **StartSynchronization** step, you can click a server record, and in the displayed dialog box, click the task name after **Migration Task** to go to the SMS console, as shown in **Figure 3-4**. On the SMS console, you view the source server details, target server configuration, and migration status, as shown in **Figure 3-5**.

Figure 3-4 Server migration workflow



Figure 3-5 Details of a migration task on SMS



Retaining Migration Tasks on SMS

To retain the migration tasks created by MgC on SMS after a server migration workflow is complete, manually add a checkpoint before the step for clearing migration tasks in the workflow, as shown in **Figure 3-6**. For details about how to add checkpoints in a workflow and what are the precautions, see **Adding a Stage or Step**.

Figure 3-6 Adding a checkpoint



When the workflow reaches the checkpoint step for a server, do not conform it, as shown in **Figure 3-7**. In this case, the migration task on the SMS console will not be deleted and its status is **Completed**, as shown in **Figure 3-8**. If you confirm the step, the task will be deleted from the SMS console.

Figure 3-7 A checkpoint step



Figure 3-8 Migration completed



3.9 Why Is the Migration Progress Inconsistent Between MgC and SMS?

MgC and SMS have different methods to calculate migration progress. As a result, the migration progress of a source server may appear differently in MgC and SMS. In SMS, a migration task is divided into phases. In MgC, a migration workflow uses a simpler calculation method to estimate the progress.

SMS Migration Task Progress

The progress of an SMS migration task is divided into the following phases:

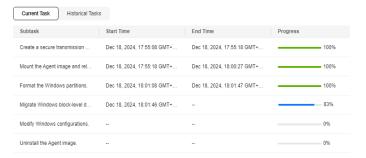
- 1. Task configuration: After the migration task is configured, the progress is 21%.
- 2. Data migration: The progress increases based on the percentage of migrated data and reaches 80% when the data migration is complete.
- 3. Finalization: After the configurations of the target server are modified and the disk containing the agent image is detached from it, the progress reaches 100%.

MgC Server Workflow Progress

For each source server included in an MgC migration workflow, a migration task is created in SMS. Each SMS migration task consists of several subtasks, and a subtask only starts after the previous one is 100% complete. For example, if the SMS migration task of a source server has six subtasks, the migration task can be considered complete when all six subtasks have reached 100% completion. In the MgC workflow, the migration progress of the source server is calculated as the sum of the completed subtasks' percentages divided by 600%.

Take the SMS migration task in the following figure as an example. The migration progress of the involved source server in MgC would be approximately 63% (380%/600%).

Figure 3-9 The subtask progress in SMS



3.10 What Do I Do If I Use a sudo User to Migrate a Source Server and the Server Fails the Source Environment Check?

Symptom

When a sudo user was used to migrate a source server, a message is displayed indicating that the server failed at the **SourceEnvCheck** step in the workflow.

Possible Causes

At the **SourceEnvCheck** step in the workflow, a script is uploaded to the source server. The user used for the migration only needs the permissions to read and execute the script. If the script already exists on the source servers and the sudo

user does not have sufficient permissions to modify or delete the old script, the new script cannot be uploaded. As a result, the check fails.

Solution

- **Step 1** Log in to the source server as the sudo user.
- **Step 2** Delete the **rda** folder in **/home/***Username***/**. In the preceding command, *Username* indicates the username used by the sudo user to log in to the system.
- **Step 3** Return to the MgC console and retry the workflow for the source server again.

----End

3.11 What Can I Do If the StartUpAgent Step Fails and the Error Message "System.OutOfMemoryException" Is Displayed?

Symptom

The migration workflow failed at the **StartUpAgent** step, and the error message "System.OutOfMemoryException" was displayed.

Possible Causes

The MgC Agent uses WinRM to connect to the source server for script transmission and execution. This problem occurs if there is not enough memory for executing the script.

Solution

Step 1 Check and modify the PowerShell memory configuration.

Run the following command in PowerShell on the source server to check the memory allocated for PowerShell:

Get-Item WSMan:\localhost\Shell\MaxMemoryPerShellMB

- If the configured memory is too small, run the following command to increase the memory to 1024 MB and retry the migration task. If the fault persists, go to step 2.
 - Set-Item WSMan:\localhost\Shell\MaxMemoryPerShellMB 1024
- If the configure memory is not less than 1024 MB, go to step 2.
- **Step 2** Handle the memory limit problem in OSs of old versions.

If the source server uses an earlier version of OS, for example, Windows Server 2008 or Windows Server 2012, the WinRM service may not apply the value defined by **MaxMemoryPerShellMB**. Instead, it uses the default value, which is typically 150 MB. In this case, the script may be interrupted due to insufficient memory. To handle this issue, perform the following operations:

1. Sign in to the **Huawei Cloud SMS console**. On the **Agents** page, download the Windows Agent (Python 2) installation package to the source server.

- Install and run the Agent. Enter the AK/SK pair of your Huawei Cloud account and SMS domain name to start the Agent. For details, see Installing the Agent on Windows.
- 3. After the Agent is started, return to the MgC console and retry the migration task

----End

3.12 How Do I Fix the Error "SMS-Workflow.0503: SMS migration task failed. SMS.xxxx?"

Symptom

In a server migration workflow, the step for executing full replication or incremental synchronization failed on a source server, and the error message "SMS-Workflow.0503: SMS migration task failed. SMS.xxxx" was displayed.

Possible Causes

During a migration, an SSH connection must be established between the source server and target server. If the SSH connection cannot be established, the migration will fail.

Solution

- **Step 1** Click the task name to go to the details page of the SMS task.
- **Step 2** Check the error cause and error code, and rectify the fault by referring to the following links:
 - SMS.380x SSH Connection Failures
 - SMS.0303 Unable to Access Domain Name

----End

4 Cross-AZ Migration

4.1 Are There Any Precautions I Need to Take When Performing a Cross-AZ Migration?

Password Consistency

If a source server has a password reset plug-in installed, such as Cloudbase-Init, a new password will be generated for the target server after the migration is complete. The source and target server passwords will be inconsistent. To keep the password unchanged, you need to uninstall the password reset plug-in before the migration.

Account Balance

You must ensure that your account balance is sufficient, and you need to pay for the resources created during the cross-AZ migration. The resources include vaults for storing source server backups, full-ECS images, and target servers created from the images.

4.2 Why Are My Windows Data Disks Missing After the Migration?

Symptom

After a Windows source server was migrated, you logged in to the target server and found that some data disks were missing on the target server. However, the ECS console showed that the target server has the same number of disks as the source server.

Possible Causes

The SAN policy Offline Shared or Offline All was used for the source server. After the migration was complete, this setting was retained on the target server, and data disks are just offline.

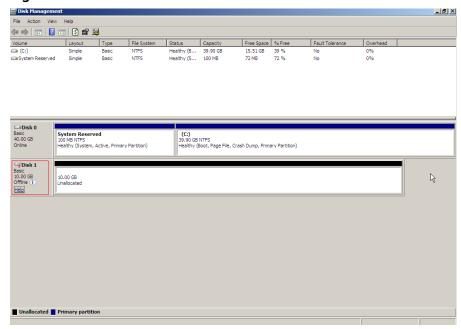
Solutions

There are two solutions for you to rectify this problem.

Solution 1

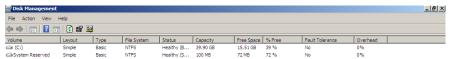
- **Step 1** Log in to the target server and choose **Start** > **Run**.
- **Step 2** Enter **diskmgmt.msc** and press **Enter** to open the **Disk Management** window. In the following figure, **disk 1** is offline.

Figure 4-1 Offline



Step 3 Right-click the offline data disk and select **online** from the pop-up menu.

Figure 4-2 Bringing the disk online





----End

Solution 2

- **Step 1** Log in to the target server and right-click **Start**.
- Step 2 Click Run and enter cmd.
- **Step 3** Run **diskpart** to start the disk management tool.
- **Step 4** Run **list disk** to list all disks on the server. In the following figure, **disk 0** is online and **disk 1** is offline.

```
Select Administrator: C:\Windows\system32\cmd.exe - diskpart
    osoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>diskpart
Microsoft DiskPart version 10.0.14393.0
Copyright (C) 1999-2013 Microsoft Corporation.
On computer:
DISKPART> list disk
 Disk ###
           Status
                            Size
                                      Free
                                                Dyn Gpt
                              40 GB
40 GB
            Online
 Disk 0
                                          0 B
 Disk 1
            Offline
                                        40 GB
DISKPART>
```

- Step 5 Run select disk 1.
- **Step 6** Run **online disk** to change the disk status from offline to online.

```
Microsoft Windows [Version 10.0.17763.2114]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>diskpart

Microsoft DiskPart version 10.0.17763.1911

Copyright (C) Microsoft Corporation.
On computer:

DISKPART> san

SAN Policy : Offline Shared

DISKPART> san policy=onlineAll

DiskPart successfully changed the SAN policy for the current operating system.

DISKPART> san

SAN Policy : Online All

DISKPART> =
```

Step 7 If the disk is read only after it is brought online, run the **attribute disk clear readonly** command to remove write protection from the disk.

----End

4.3 What Are the Known Errors Related to Cross-AZ Migration Workflows and How Can I Fix Them?

These error messages start with **AZworkflow**. You can find the solutions in **Known Errors and Solutions**.

5 Resource Discovery

5.1 Known Resource Discovery Problems and Solutions

The following table lists known issues related to resource discovery and how these issues can be addressed.

Issue	Solution
Task name already exists.	Enter another task name.
Create collection task failed.	Contact technical support or submit a service ticket.
Involved collection task not found.	Associate the collection item with another collection task.
Collection item already exists.	Check whether the collection item has already been associated with the collection task, or contact technical support.
Add collection item failed.	Contact technical support or submit a service ticket.
Add data source failed.	Contact technical support or submit a service ticket.
Delete collection task failed.	Refresh the task list to check whether the collection task has been deleted, or contact technical support.
Delete collection item failed.	Refresh the collection item list to check whether the collection item has been deleted, or contact technical support.
Collection task not found.	Refresh the collection task list and check whether the collection task exists.
Collection item not found.	Refresh the collection item list and check whether the collection item exists.

Issue	Solution
Add data source failed.	Contact technical support or submit a service ticket.
Data source not found.	Refresh the collection item list and check whether the data source exists.
Re-collect data source failed.	Refresh the collection item list and check whether the data source exists, or contact technical support.
Delete data source failed.	Refresh the collection item list and check whether the data source has been deleted, or contact technical support.
Edit data source name failed.	Refresh the collection item list and check whether the data source exists, or contact technical support.
Re-collection failed.	Refresh the collection item list and check whether the collection item exists, or contact technical support.
Incorrect data source settings.	Check whether the data source settings are correct.
Re-collect data source failed.	Check whether the collection uses APIs and the status is completed.
Delete data source failed.	Only data sources in the collection failed or completed status can be deleted.
Delete collection item failed.	Only collection items in the waiting status can be deleted.
Delete collection task failed. There are running collection items.	Refresh the collection item list and check whether there are running collection items. If there are running collection items, the collection task cannot be deleted.
The file to import is too large.	The maximum file size allowed is 10 MB.
Invalid file name.	Enter a valid file name.
Invalid file format.	Import a file in the correct format.
Add data source failed. Uploaded file not found.	Check whether the file has been successfully imported or import the file again.
Could not collect information from Alibaba Cloud RM.	Debug API SearchResources by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.

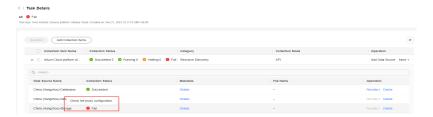
Issue	Solution
Could not collect information from Alibaba Cloud RM.	Debug API GetResourceConfiguration by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
Credential not found.	Check whether the selected credential can be found on the Credentials page.
Credential expired.	Update the credential on the Credentials page.
Wrong credential type. Select AK/SK credentials.	Select AK/SK credentials.
Invalid MSE configuration file.	Check whether the selected credential and regions are correct.
Incorrect file format.	Upload a file in the correct format.
Could not obtain Nacos accessToken.	Check whether the username and password entered in the configuration information are correct.
Could not parse Nacos authentication information.	Contact technical support or submit a service ticket.
Could not query domain names in pagination mode.	Debug API DescribeDomains by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
Could not query DNS records in pagination mode.	Debug API DescribeDomainRecords by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
Could not invoke the Alibaba Cloud WAF SDK.	Debug API DescribeDomains by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
Invalid AK/SK.	Check whether the AK/SK pair recorded in the selected credential is correct.

Issue	Solution
Could not invoke the Alibaba Cloud Kafka SDK.	Check whether the selected credential and regions are correct, or check whether the Alibaba Cloud Kafka service is enabled for the account that the credential belongs to.
Could not invoke the Alibaba Cloud Topic SDK.	Debug API GetInstanceList by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
Could not invoke the Alibaba Cloud RDS SDK.	Check whether the selected credential and regions are correct, or check whether the Alibaba Cloud RDS service is enabled for the account that the credential belongs to.
Could not invoke the Alibaba Cloud RDS schema SDK.	Debug API DescribeDatabases by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
Create Alibaba Cloud SLB SDK client failed.	Check whether the selected credential and regions are correct.
Uploaded file contains invalid data.	Enter valid values.
Uploaded file failed the verification.	Contact technical support or submit a service ticket.
Required fields are missing in uploaded file.	Specify required fields.
Table headers of uploaded file are incorrect.	Enter the correct table headers.
Table headers of uploaded file are invalid.	Check whether non-customized table headers in the template have been modified.
Unexpected domain names found in "Domain" sheet.	Ensure that domain names entered in the "Application" and "MQ" sheets have been entered in the "Domain" sheet.
Invalid file content.	Check whether the import template was modified or download the template again.
Maximum tags reached.	Delete unnecessary tags and try again.
Add tag failed.	Contact technical support or submit a service ticket.
Tag not found.	Check whether the tag is available.

Issue	Solution
The tag has been associated with resources.	Select another tag or dissociate from resources.
Update tag failed.	Contact technical support or submit a service ticket.
The parameter for querying the tag set is empty.	Set the tag query parameters.
Associate tag with resources failed.	Contact technical support or submit a service ticket.
The tag was not associated with the resources	Check whether related resources and the tag have been associated, or contact technical support.
ID not found.	Contact technical support or submit a service ticket.
Modify data failed.	Contact technical support or submit a service ticket.
Data import failed.	Contact technical support or submit a service ticket.
Name already exists.	Enter another name.
File upload failed.	Contact technical support or submit a service ticket.
File download failed.	Contact technical support or submit a service ticket.
Uploaded file not found or expired.	Upload a new file, or rename the file and upload it again.
Producer and consumer in a raw in sheet "MQ" are in different environments.	Check whether the producer and consumer environments in the MQ sheet of the imported file are consistent.
Producers or consumers specified in sheet "MQ" are not found in sheet "Application".	Ensure that the producer and consumer services or microservices in the MQ sheet have been supplemented in the Application sheet of the imported file.
Column "MICROSERVICE" in sheet "Application" is required.	Add microservices in the Application sheet to the imported file.
Columns "PRODUCER" and "CONSUMER" in sheet "MQ" are required.	Add the producer and consumer services or microservices to the MQ sheet of the imported file.

5.2 Where Can I Find the Collection Failure Cause?

If the task status is **Failed**, click **View** in the **Operation** column to view the data source that failed to be collected. You can move the cursor to the collection status of the data source to view the failure cause. After handling the failure causes, you need to delete the collection item and add it again by referring to **How Do I**Collect Data from a Data Source Again If the Previous Collection Fails?



5.3 What Can I Do If an Internet Discovery Task Fails and the Error Message "Network connection timed out" or "Other exception" Is Displayed?

Symptom

The Internet-based discovery task failed, and the error message "Network connection timed out" or "Other exception" was reported.

Possible Causes

- **Network connection timed out**: The region where the source resources are located is not supported by MgC.
- Other exception: An unknown exception occurs when the source resources are connected. There are many possible reasons. You need to troubleshoot this issue by yourself.

5.4 How Do I Collect Data from a Data Source Again If the Previous Collection Fails?

After handling the failure causes, if you still want to collect this item, you need to delete the collection item and add it again.

- **Step 1** On the task list page, locate a discovery task, and click **View** in the **Operation** column.
- **Step 2** Locate the required collection item and click **Add Data Source** in the **Operation** column.
- **Step 3** Select a region and resource type, and click **OK**. After the data source is added, the system automatically starts to collect source data.

You can click the collection item to view the status of its data source.

----End

5.5 How Do I Obtain the Cloud Platform Credentials (AK/SK Pairs)?

Obtain the authentication information (access keys) required for accessing cloud platforms.

Obtaining Alibaba Cloud AccessKey Pairs

When providing your credential for MgC to discover your Alibaba Cloud resources, you need to provide the AK/SK pair of your Alibaba Cloud account or RAM user account that owns the resources to be discovered. For details, see **Creating an AccessKey Pair**.

Obtaining Huawei Cloud Access Keys (AK/SK Pairs)

When providing your credential for MgC to discover your Huawei Cloud resources, you need to provide the AK/SK pair of your Huawei Cloud account or IAM user account that owns the resources to be discovered. For details, see **Creating an Access Key**.

Obtaining AWS Access Keys

When providing your credential for MgC to discover your AWS resources, you need to provide the AK/SK pair of your AWS root account or IAM user account that owns the resources to be discovered. For details, see Creating Access Keys for the Root User or Managing Access Keys for IAM Users.

Obtaining Tencent Cloud Access Keys (SecretId/SecretKey Pairs)

When providing your credential for MgC to discover your Tencent Cloud resources, you need to provide the API key of the root account or IAM user account that owns the resources to be discovered. For details, see Access Keys for the Root Account or Access Keys for Sub-Users.

Obtaining Qiniu Cloud Access Keys (AccessKey/SecretKey Pairs)

When providing your credential for MgC to discover your Qiniu Cloud resources, you need to provide the access key of the account that owns the resources to be discovered. You can obtain it from the **Key Management** page of the Qiniu Cloud console.

Obtaining Kingsoft Cloud Access Keys (AK/SK Pairs)

When providing your credential for MgC to discover your Kingsoft Cloud resources, you need to provide the access key of the IAM user account that owns the resources to be discovered. For details about how to obtain the AK/SK, see **Create** an AccessKey for an IAM User.

5.6 How Do I Obtain Azure Credentials?

To discover your Azure resources using MgC, you need to provide your Azure credentials including your tenant ID, client (application) ID, subscription ID, and secret. This section describes how to obtain these credentials.

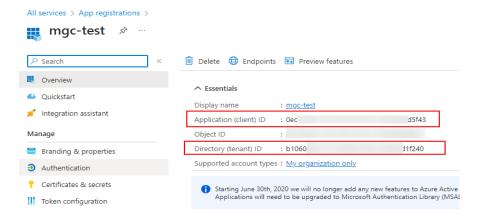
Obtaining a Subscription ID

- **Step 1** Sign in to the **Azure** portal.
- **Step 2** Search for and select **Subscriptions**.
- **Step 3** Find the desired subscription in the list and note the subscription ID in the second column. Copy the subscription ID to the dialog box for adding credentials on MgC.

----End

Obtaining a Tenant ID, Application ID, and Secret

- Step 1 Sign in to the Azure portal.
- **Step 2** Search for and select **App Registrations**.
- **Step 3** Click the **All Applications** tab and click the desired application. In the **Overview** area, note the application (client) ID and the directory (tenant) ID.



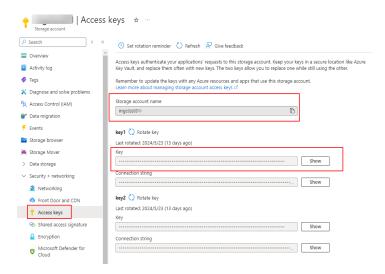
Step 4 In the navigation pane on the left, choose **Certificates & secrets**, click the **Client secrets** tab, and click **New client secret**. The newly created secret can only be viewed when it is created. Be sure to note the secret and keep it secure.

----End

5.7 How Do I Obtain the Required Credentials Before Using MgC to Perform a Deep Collection for My Azure Object Storage Resources?

To perform a deep collection for your Azure object storage resources, you need to provide your storage account and access key. This section describes how to obtain these credentials.

- **Step 1** In the **Azure portal**, go to your storage account.
- **Step 2** In the navigation pane on the left, under **Security + networking**, select **Access keys**. Your storage account name and keys appear.



- **Step 3** Under **key1**, click **Show** next to the key. The access key and the **Copy** button appear.
- **Step 4** Note your storage account name and access key and add them to your MgC Agent. For details, see **Adding Resource Credentials**. When you add the credentials to the MgC Agent, set **Authentication** to **AK/SK**. Enter the storage account name in the **AK** box and the access key in the **SK** box.

----End

5.8 How Do I Configure the Permissions Required for Collecting Details of Azure Containers?

This section describes how to configure the permissions required for using MgC to collect details about Azure container resources. The application that the collection credential belongs to must have the following information in the involved resource group and subscription:

- Microsoft.ClassicCompute/virtualMachines/read
- Microsoft.Insights/MetricDefinitions/Read

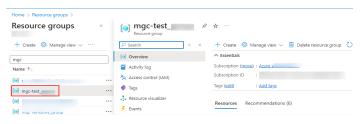
Microsoft.Management/getEntities/action

Procedure

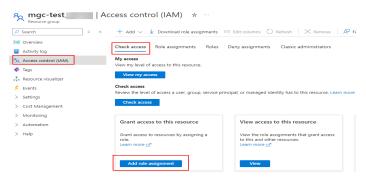
- **Step 1** Sign in to the **Azure** portal.
- **Step 2** In the upper part of the page, enter **Resource groups** in the search box and select **Resource groups**.



Step 3 In the resource group list, click the resource group that contains your Azure Kubernetes Service (AKS) resources.

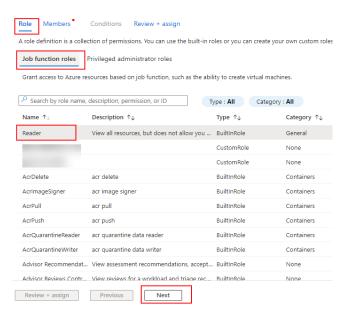


Step 4 In the navigation pane on the left, choose **Access control (IAM)**. On the **Check access** tab, click **Add role assignment**.



Step 5 Select **Reader** and click **Next**.

Add role assignment



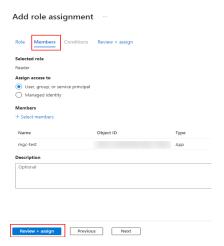
Step 6 Click **Select members**. In the dialog box displayed on the right, search for and click the application name (that the collection credential belongs to).



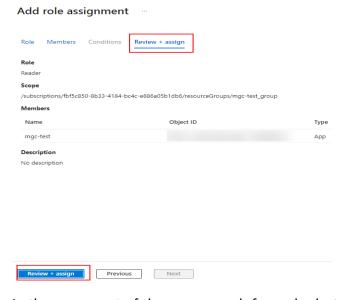
Step 7 Click Select to add it to the member list.



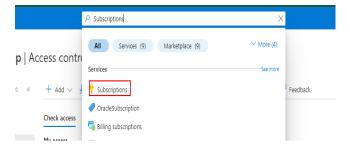
Step 8 Click Review + assign.



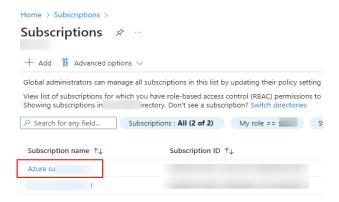
Step 9 After confirming that the role and member are correct, click **Review+ assign** to configure permissions for the application in the resource group.



Step 10 In the upper part of the page, search for and select **Subscriptions**.



Step 11 In the subscription list, click the name of the subscription that contains your AKS resources.



Step 12 Configure permissions for the application in the subscription by referring to **Step 4** to **Step 9**.

----End

5.9 How Do I Convert the Encoding Format of a CSV File to UTF-8?

To import Alibaba Cloud servers to MgC, you must upload UTF-8 encoded CSV files with English table headers. This section describes how to change the encoding format of .csv files to UTF-8.

Method 1 (for Windows)

- **Step 1** Right-click the CSV file and choose **Open with Notepad**.
- **Step 2** In the upper left corner of the Notepad window, choose **File > Save As**. In the **Save As** dialog box, select **UTF-8** from the **Encoding** drop-down list and click **Save**.

----End

Method 2 (for Windows)

Use Notepad++ to convert the CSV file encoding format to UTF-8. Ensure that Notepad++ has been installed. If it has not been installed, download it from the official website and install it.

- **Step 1** Open Notepad++, drag the CSV file to the Notepad++ window, and press Ctrl+A to select all contents.
- **Step 2** On the Notepad++ menu bar, choose **Encoding** > **Encode in UTF-8**. Press Ctrl+S to save the file.

----End

Method 3 (for Mac)

Use TextEdit to convert the CSV file encoding format to UTF-8.

- Step 1 Open TextEdit on Mac.
- **Step 2** Choose **File** > **Open** in the upper left corner.
- **Step 3** Select the CSV file whose encoding format needs to be converted and select **Unicode (UTF-8)** for **Encoding**.
- **Step 4** Choose **File** > **Save** to convert the file encoding format to UTF-8.

----End

5.10 What Can I Do If the Collected Disk Information Is Empty or Incorrect After a Deep Collection Is Performed for a Windows Source Server?

Symptom

After a deep collection is performed for a Windows source server, the disk information is empty or garbled characters are displayed.

Possible Causes

The region and language settings of the Windows server are inconsistent. As a result, the disk information fails to be collected.

Solution

Perform the following steps to rectify the fault:

- 1. Log in to the Windows server, click **Start**, and click the **Settings** icon (gear-shaped).
- 2. In the displayed dialog box, click **Time and Language**.
- 3. In the navigation pane, choose Language.
- 4. In the **Related settings** area, click **Administrative language settings**. The **Administrative** tab of the **Region** window is displayed.
- 5. In the Language for non-Unicode programs area, click Change system locale.
- 6. Check whether the **Current system locale** is the same as **Current language for non-Unicode programs**. If they are different, select the region in the current language from the drop-down list and click **OK**.
- 7. Restart the server and check whether the settings are applied.

5.11 What Can I Do If the Collected OS Information Is Incorrect After a Deep Collection Is Performed for a Windows Source Server?

Symptom

After a deep collection is performed for a Windows source server, the OS information is garbled characters in the collected resource details.

Possible Causes

The region and language settings of the Windows server are inconsistent. As a result, the OS information fails to be collected.

Solution

Try the following to troubleshoot:

- 1. Log in to the Windows server, click **Start**, and click the **Settings** icon (gear-shaped).
- 2. In the displayed dialog box, click **Time and Language**.
- 3. In the navigation pane, choose Language.
- 4. In the **Related settings** area, click **Administrative language settings**. The **Administrative** tab of the **Region** window is displayed.
- 5. In the Language for non-Unicode programs area, click Change system locale.
- 6. Check whether the **Current system locale** is the same as **Current language for non-Unicode programs**. If they are different, select the region in the current language from the drop-down list and click **OK**.
- 7. Restart the server and check whether the settings are applied.

5.12 What Can I Do If an RVTools Import Fails?

Scenarios

When you tried to import RVTools data, the import failed.

Possible Causes

The Excel file exported from RVTools may have compatibility or format issues.

Solution

- **Step 1** Open the Excel file exported from RVTools using the Excel software on Windows.
- **Step 2** Copy the data in the Excel file and paste it to a new Excel file.

- **Step 3** Save the new Excel file in .xlsx or .xls format.
- **Step 4** Import the newly saved Excel file to MgC.

----End

5.13 What Do I Do If the Deep Collection Succeeds on a Source Server but Some Specifications Information Is Not Collected?

Symptom

After a deep collection was performed for a source server, some specifications information did not appear on the resource details page.

Possible Causes

The UNIX newline character is incorrect in the Linux collection script installed on the MgC Agent server. The Linux system uses LF as the newline character, but the installation script uses CR LF, which is the new character in the Windows system. The script could not be pushed to the source server during the collection.

Solution

- Step 1 Uninstall the current MgC Agent and reinstall it.
- **Step 2** Launch a deep collection for the source server again.

----End

6 Target Recommendations

6.1 Where Can I Find the Assessment Failure Cause?

You can hover over the red exclamation mark on the left of the assessment status to view the failure cause.

6.2 Why Can't I Manually Select Target Server Specifications and Disk Types?

You must first assess source servers.

6.3 What Can I Do If a Server Assessment Fails and the System Displays a Message Indicating No Proper Specifications Are Matched?

Possible Causes

Possible causes are:

- There are no specifications that match the source server in the target region.
- There are no specifications that match the custom assessment policy you specified.

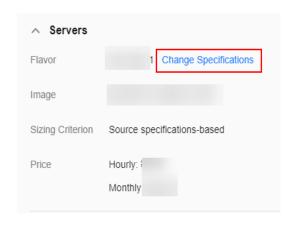
Solution

Step 1 In the application list on the **Migration Solutions** page, click **View Target Configurations** in the **Operation** column.



- **Step 2** In the **Target Configurations** area, locate the server that you want to modify the recommended target configurations for and click **Modify Target Configuration** in the **Operation** column.
- **Step 3** Modify the specifications and image for the target server.

Recommendation



Step 4 In the disk area, locate a disk and click **Modify Specifications** in the **Target Specifications** column. You can modify the disk type and capacity. Only disks on Linux target servers can be downsized if the paired source servers have overprovisioned storage resources. If you downsize a disk for the target server, the system will set **Disk Downsized** to **Yes**. The reverse also applies.

NOTICE

- The system disk capacity ranges from 40 GB to 1,024 GB.
- The data disk capacity ranges from 10 GB to 32,768 GB.
- Disk downsizing is only available for Linux, and the decreased sizes must be larger than the used sizes of the source disks.
- In the cross-AZ migration scenario, only disk upsizing is supported. Even if you choose to downsize disks here, the settings will not be applied, and the system will create target disks as large as source disks.



----End

6.4 What Can I Do If a Server Assessment Fails Because the Target Server Specifications Do Not Support Windows Images?

Possible Causes

The selected target server specifications support only Linux images.

Solution

Select target server specifications that support Windows images. After selecting the target server specifications, all supported images will be displayed in the image drop-down list.

6.5 What Types of Databases Can I Assess Using MgC?

MgC can assess and generate recommendations for MySQL, PostgreSQL, MongoDB, Oracle, and SQL Server databases.

6.6 How Does MgC Generate Target Recommendations?

This section describes how MgC recommended appropriate target resources for you based on the assessment policy and preferences you configure.

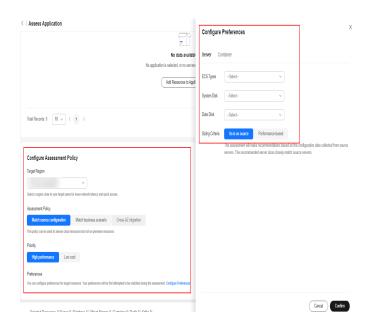


Table 6-1 Settings used for computing target recommendations

Parameter	Option	Description
Target Region	-	Select the region where you want to purchase resources on Huawei Cloud. You are advised to select a region close to your target users for lower network latency and quick access.

Parameter	Option	Description
Assessment Policy	Match source configur ation	MgC will recommend Huawei Cloud resources in the same or slightly larger size as source resources. For a server manually added to MgC or automatically discovered by MgC over an intranet, the recommendation is limited to three instance types: FlexusX, General Computing ECS, and General Computing-plus ECS. MgC first sorts all flavors in these three types in descending order of price or
		performance as you prefer. Then it recommends the first eligible flavor that you can purchase. A flavor is considered eligible if it provides an amount of CPU and memory resources not less than the source server and within the thresholds. If no flavor is eligible, an error will be reported. If you have specific requirements for target servers (such as large memory), configure Preferences or select Match business scenario for Assessment Policy to obtain
		more accurate recommendations.
		• The CPU threshold is the smallest 2's power that is larger than the number of CPUs on a source server. For example, if a source server has 3 CPUs, the threshold is 4 because 4 is the smallest power of 2 greater than 3. If a source server has four CPUs, the CPU threshold is 8 because 8 is the smallest power of 2 greater than 4.
		 The memory threshold is 1.5 times of the memory of a source server. For example, if the memory size of a source server is 4 GB, the memory threshold is 6, which is 1.5 times of 4.
		Examples:
		 Assume that a source server has 6 CPUs and 8 GB of memory, and you select Low price for Priority. The FlexusX flavor x1.6u.8g will be recommended if it is not sold out.
		 Assume that a source server has 6 CPUs and 8 GB of memory, and you select High performance for Priority.
		 If there is an eligible C7 flavor such as c7.2xlarge.1 that can be purchased, this C7 flavor will be recommended.
		 If all eligible C7 flavors are sold out, the system will search for eligible flavors in the other General Computing-plus ECS series in descending order of performance. If no eligible flavor is found, an error will be reported.

Parameter	Option	Description
	Match business scenario	MgC recommends the right Huawei Cloud resources based on the business scenario of source resources and Huawei Cloud best practices.
		For a source server, MgC first automatically selects the instance type that matches the business scenario of the source server, and sorts all flavors of the matched instance type by price or performance as you prefer. Then it recommends the first eligible flavor that you can purchase. A flavor is considered eligible if it provides an amount of CPU and memory resources not less than the source server and within the thresholds. If no flavor is eligible, an error will be reported.
		Examples:
		Assume that a 4U8G source server is used to run a personal application, and you select High performance for Priority . The recommendation will be limited to two instance types: FlexusX and General Computing ECS.
		If the 4U8G FlexusX flavor x1.4u.8g can be purchased, this flavor will be recommended.
		 If the FlexusX flavor x1.4u.8g is sold out, the system will recommend another eligible FlexusX flavor that can be purchased, such as x1.4u.10g.
		If all eligible FlexusX flavors are sold out, the system will search for eligible flavors of the General Computing ECS type. If there is an eligible General Computing ECS flavor that can be purchased, the system will recommend this flavor. If there is not, an error will be reported.
Priority	High perform ance	MgC recommends target resources with optimal performance.
	Low cost	MgC recommends the most cost-effective target resources that meet your demands.
Preferences	Server Types (Optiona l)	Select the server types you prefer.
	Server Series (Optiona l)	Select the server series you prefer. The system will generate recommendations based on your preferred server types and series. NOTICE If you select Display only series allowed on DeHs, Server Types will be dimmed, and the server series allowed on
		DeHs in the target region will be listed.

Parameter	Option	Description
	System Disk (Optiona l)	Select the system disk type you prefer.
	Data Disk (Optiona l)	Select the data disk type you prefer.

Parameter	Option	Description	
	Sizing Criteria	Choose the criteria that the system will use to generate server recommendations.	
		If you select As-is on source , the recommended flavors provide at least the same amount of CPU and memory resources as source servers.	
		 If you select your preferred server types in Preferences, the recommendations are limited to the server types you prefer and will be generated based on the setting of Priority. If no eligible flavor is found in your preferred server types, an error will be reported. If you do not select your preferred server types in Preferences, the recommendations will be generated based on the settings of Assessment Policy and Priority. 	
		• If you select Performance-based , you need to perform a performance collection for the source servers, and then set assessment parameters. The system will then recommend target servers with your desired CPU and memory capacity. The more performance data is collected, the more accurate the assessment is. The collection of server performance data should take no less than seven days.	
		The system processes the collected performance data of source servers and makes server size recommendations. The system identifies the appropriate collected data to use for rightsizing based on the percentile values for the performance history. Then the percentile values are multiplied by the comfort factors to generate recommendations. Calculation method:	
		Recommended number of CPUs = CPU usage at the specified percentile x Number of CPUs on a source server x Comfort factor (rounded up)	
		Recommended memory size = Memory usage at the specified percentile x Memory size of a source server x Comfort factor (rounded up)	
		For example:	
		Suppose that a source server has 8 CPUs and 16 GB of memory, and you set Performance History to 7 days, CPU Usage Percentile to 100th, CPU Comfort Factor to 1.2, Memory Usage Percentile to 95th, and Memory Comfort Factor to 1. The system sorts performance data samples in ascending order and picks the CPU usage (for	
		example, 40%) at the 100th percentile and the	

Parameter	Option	Description	
		memory usage (50%) at the 95th percentile for rightsizing. Then the recommended server size is:	
		 4 CPUs (rounded up from 3.8) 40% (the value at the specified percentile) × 8 (the number of the source server's CPUs) × 1.2 (the specified comfort factor) = 3.8 	
		 8 GB of memory 50% (the usage value at the specified percentile) × 16 (the memory size of the source server, in GB) × 1 (the specified comfort factor) = 8 	
		Based on the Match source configuration assessment policy, the FlexusX instance flavor x1.4u.8g is recommended if it is not sold out.	
		If Ignore Metrics with Insufficient Samples is set to Enable, performance metrics with insufficient samples will not be used for rightsizing, and the corresponding configurations of source servers are retained on target servers. By default, the system collects raw performance data (samples) every five minutes. For example, theoretically, during a 7-day performance history, a total of 2,016 (7 × 288) samples can be collected for a metric. If less than 1,008 (2016 × 50%) samples are collected, the metric is marked as "insufficient samples".	
		 If you select your preferred server types in Preferences, the recommendations are limited to the server types you prefer and will be generated based on the settings of Sizing Criteria and Priority. If no eligible flavor is found in your preferred server types, an error will be reported. Suppose that for an 8U16G source server, the 4U8G C7 flavor is recommended based on your preferred General Computing-plus ECS type in Preferences and the Sizing Criteria of Performance-based. If this C7 flavor is sold out, the next larger C7 flavor will be recommended such as the 8U8G C7 flavor. If no C7 flavor is eligible, the system will search for eligible flavors in other General Computing-plus ECS series. If no General Computing-plus ECS flavor is eligible, an error will be reported. 	
		 If you do not select your preferred server types in Preferences, the recommendations will be generated based the settings of Sizing Criteria, Assessment Policy, and Priority. Suppose that for an 8U16G source server that is used to run a personal application, a 4U8G 	

Parameter	Option	Description	
		flavor of the General Computing ECS type is recommended based on the Sizing Criteria of Performance-based. If you set Priority to High performance and do not select your preferred server types in Preferences, the FlexusX flavor x1.4u.8g with 4U8G will be recommended if it is not sold out.	

7Big Data Migration

7.1 What Can I Do If the Data Migration Fails Because the DLI Throttling Threshold Has Been Reached?

Symptom

A big data migration task failed, and the error message "The throttling threshold has been reached" was displayed for the Spark job on DLI.

Possible Causes

The number of created resources has reached the DLI threshold.

Solution

Contact DLI technical support to adjust the threshold.

7.2 What Can I Do If Some Tables Fail to Be Migrated Due to the Error "CRC Check Failed"?

Symptom

In a big data migration task, some tables fail to be migrated, and the error message "CRC Check failed" was displayed.

```
Caused by: java.io.10Exception: CRC Check failed.

at com.allyun.odps.tunnel.io.ArrowHttpInputStream.readChunk(ArrowHttpInputStream.java:112) ~[spark-datasource-3.3.0-dev.jar:?]

at com.allyun.odps.tunnel.io.ArrowHttpInputStream.read(ArrowHttpInputStream.java:126) ~[spark-datasource-3.3.0-dev.jar:?]

at spark.odps.runtime.org.apache.arrow.vector.ipc.ReadChannel.readFully(ReadChannel.java:60) ~[spark-datasource-3.3.0-dev.jar:?]

at spark.odps.runtime.org.apache.arrow.vector.ipc.ReadChannel.readFully(ReadChannel.java:87) ~[spark-datasource-3.3.0-dev.jar:?]
```

Solution

Modify the migration SQL statements of the DLI job to change the Timestamp fields at the source to String and try the migration again.

7.3 How Do I Fix the Error "no more field nodes for for field %s and vector %s" When Some Tables Fail to Be Migrated?

Symptom

In a big data migration task, some tables failed to be migrated, and the error message "no more field nodes for for field %s and vector %s"was displayed.

```
Caused by: java.lang.IllegalargumentException: no more field nodes for for field type: Utf8 and vector [] at spark.odps.runtiam.org.apatche.arrow.util.fresconditions.checkdargument(fresconditions.java:397) - [spark-odps-datasource-3.3.1-odps8.43.8.jar:?] at spark.odps.runtiam.org.apatche.arrow.vector.Vectorioaderi.elandUffergr(vectorioaderj.avas) - [spark-odps-datasource-3.3.1-odps8.43.8.jar:?] at spark.odps.runtiam.org.apatche.arrow.vector.Vectorioaderi.elandUffergr(vectorioaderj.avas) - [spark-odps-datasource-3.3.1-odps8.43.8.jar:?] at com.allunv.odps.tumosl.o.ArrowfunelExconditionalConditions.runditions.disconditions.com/datasource-3.3.1-odps8.43.8.jar:?]
```

Solution

Create a temporary table based on the source table and use the temporary table to migrate data.

8 Big Data Verification

8.1 What Do I Do If the Credential List Is Empty When I Create a Data Connection for Big Data Verification?

Symptom

When you tried to create a data connection for big data verification, the credential drop-down list was empty or your credential was not found in the list.

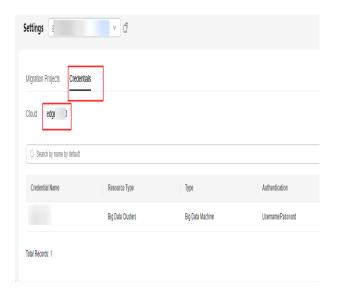
Possible Causes

Possible causes are:

- Your credential was incorrect. Specifically, the credential you added to the MgC Agent did not match the required type for the new connection.
- The credential you added to the MgC Agent was not synchronized to MgC.

Solutions

- If the credential is incorrect, go to the MgC Agent console and check whether the credential type is that required by the new connection. If the credential has not been added, add it by referring to **Adding Resource Credentials**. After the credential is added, it will be automatically synchronized to MgC.
- If the credential fails to be synchronized, go to the MgC console and choose **Settings** > **Credentials** in the navigation pane, click the MgC Agent name, and check whether the credential added to the MgC Agent can be found in the list. If the credential cannot be found, go to the MgC Agent console to synchronize the credential again. Ensure that the credential is displayed on the **Credentials** page of the MgC console.



8.2 Why Are 0 or -1 Displayed in the Hive Verification Results?

Symptom

A big data verification task for Hive was successfully executed. In the verification results, **0** or **-1** appeared in the **Source** and **Target** columns.

Possible Causes

The calculated value exceeds the range supported by Hive.

During data processing, if Hive encounters a maximum or minimum value that it cannot represent in the standard value format, these extreme values are displayed as Infinity (indicating positive infinity) or -Infinity (indicating negative infinity). These values are not valid numbers. Therefore, exceptions may occur during value conversion or calculation.

During the verification, Hive and Spark process such values in the following ways:

- If the value is Infinity or -Infinity, the value is displayed as -1 by default.
- If the value is Not a Number (NaN), it is displayed as 0 by default.

8.3 Why Does a Field in Hive Fail the Sum Verification?

Symptom

In a big data verification task for Hive, the verification rule was **sum**, and a double field that stores 1.7976931348623157E308 or -1.7976931348623157E308 failed the verification.

Possible Causes

When the Spark-SQL client is used to execute SQL statements, the returned values of the same command may be different.

```
spark-sql select * from table_test_01;
1.79760343460231578306_Infunity test_string
1 1.79760343460231578306_Infunity test_string
1 1.79760313460231578306_Infunity test_string
1 2.0 0.0 test_string
1 1.0 o.0 test_string
1 2.0 o.0 test_string
1 1.0 o.0 test_string
1 2.0 test_stri
```

This is because in a distributed computing environment, the sequence in which calculations are performed can vary, leading to slight inconsistencies in results. During the processing of values near the maximum limit of the double type (1.7976931348623157E+308), adding even a small value like 2.0 can lead to an overflow, which essentially means the resulting value cannot be represented correctly and often just stays unchanged. It is a quirky but common phenomenon in floating-point arithmetic, due to precision limitations.

8.4 Why Do a Large Number of Tables Fail to Be Verified in a DLI Verification Task?

Symptom

When a DLI verification task is created and executed, a large number of tables fail to be verified. The figure below shows the error information in the MgC Agent logs.

```
[2024-09-20 00:34:30][PRO][Bool.991 throad-l][Con humen injudata sigration.common utils: Shellurils][resettes command: timeout -s SIGRIL 7200-/mpt/clouder/parcels/CDH-0-3.1-1.cd hos.3.1pt.3/1050975/n/Debellur -j disc:htwar2[1/2]. hos.000-3/70074/mpt/clouder/parcels/CDH-0-3.1-1.cd hos.3.1pt.3/20009272-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff-disc.2009-29ff
```

Possible Causes

The number of requests reached the API request throttling threshold.

Solution

Contact technical support to increase the threshold.

8.5 How Do I Optimize the Verification Task When the Delta Lake Data Volume Is Large?

This section explores how to use MgC to verify data consistency when the source Delta Lake data volume is huge (for example, more than 10,000 tables).

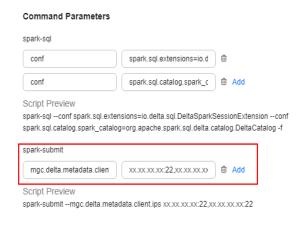
Procedure

- Step 1 Create a metadata connection to the Delta Lake cluster.
- **Step 2** Use the metadata connection created in **step 1** to **create a metadata synchronization task** to synchronize metadata from the source cluster to MgC.
- **Step 3** Create several more metadata connections to the source Delta Lake cluster using the IP addresses and ports of different executors. Keep the other parameter settings the same as the metadata connection created in **step 1**.

□ NOTE

- The number of metadata connections is determined by the number of executors and tables to be verified. If the executor resources are sufficient and there are a large number of tables to be verified, increasing the number of metadata connections can improve verification efficiency.
- To avoid duplicate data, you only need to create a synchronization task using the metadata connection created in **step 1**.
- **Step 4 Create a table group and add source tables to the group**. During the table group creation, select the metadata connection created in **step 1**.
- **Step 5** Create a connection to the source and target executors separately. For details, see **Creating an Executor Connection**.
- Step 6 Create a data verification task for the source Delta Lake cluster and the target Delta Lake cluster, respectively, and execute the tasks. For more information, see Creating and Executing Verification Tasks. When configuring a task, in the spark-submit area, add parameter mgc.delta.metadata.client.ips and set the value to the IP addresses and ports of all metadata connections, which are separated by commas (,).

For example, mgc.delta.metadata.client.ips = xx.xx.xx.xx:22,xx.xx.xx:22



----End

8.6 How Do I Replace Packages When I Create a Verification Task for an MRS 3.1.0 Cluster Using Yarn?

Scenarios

The following describes how to replace packages when you create a full or selective verification task for a HBase cluster that uses Yarn mode.

Procedure

- **Step 1** On the server where the MgC Agent is installed, run the following command to access the specified MgC Agent directory:
 - cd /opt/cloud/Edge/tools/plugins/collectors/bigdata-migration/hadoop3
- **Step 2** Run the following command to delete the old packages from the directory: rm -f hadoop-c* hadoop-m* hadoop-y* zookeeper-* hbase-* hadoop-h*
- **Step 3** Go to the **lib** directory of the HBase client in the cluster and run the following command to copy the new packages to the specified directory: Replace xxxx@xxx.xx.xx with the username and IP address of the server with the MgC Agent installed.
 - scp hadoop-c* hadoop-m* hadoop-y* zookeeper-* hbase-* opentracing-* jaeger-core-* commons-validator* hadoop-h* xxxx@xxx.xx.xx.y.opt/cloud/Edge/tools/plugins/collectors/bigdata-migration/hadoop3
- **Step 4** Go to the specified directory on the server with the MgC Agent installed by referring to step 1. Run the following command to change the permissions and owner for the new packages:

chmod 755 hadoop-c* hadoop-m* hadoop-y* zookeeper-* hbase-* opentracing-* jaeger-core-* commons-validator* hadoop-h* chown edge:edgegroup hadoop-c* hadoop-m* hadoop-y* zookeeper-* hbase-* opentracing-* jaeger-core-* commons-validator* hadoop-h*

Step 5 Restart the MgC Agent.

cd /opt/cloud/Edge/scripts sh start.sh

----End

9 Known Issues and Solutions

Known Issues and Solutions About Server Migration Workflows

Error Code	Description	Solution
SMS- Workflow.0101	Parameter * is empty.	Check whether any recommended server parameters (image and disk) are missing, or contact MgC technical support to check whether parameter *** is empty in the workflow database.
SMS- Workflow.0102	Parameter *** contains special characters.	Contact MgC technical support to check whether parameter *** contains special characters in the workflow database.
SMS- Workflow.0103	PowerShell version must be 3.0 or later.	Open PowerShell on the server where the MgC Agent is installed and run the \$host command to check the PowerShell version. If the current version is earlier than 3.0, you are advised to reinstall the MgC Agent on a server running Windows Server 2012 or later. Generally, Windows Server 2012 and later versions provide PowerShell 3.0 or later.
SMS- Workflow.0201	Available memory on Windows source servers must at least be 256 MB.	Run the systeminfo command to check available memory, release sufficient memory, and try again.
SMS- Workflow.0202	Linux source servers failed the migration feasibility check.	Find the solution based on the error code in SMS documentation or contact SMS technical support.

Error Code	Description	Solution
SMS- Workflow.0203	A migration program is running on a source server.	The SMS migration process is running on the source server. If you want to migrate data again, stop the migration process by running the shutdown.sh script in the / root/Edge/SMS-Agent directory on Linux or by stopping the SMSAgentDeploy process in the Task Manager on Windows. Delete the migration task on the SMS console, return to the workflow, and try the step again.
SMS- Workflow.0301	Create VM failed.	Common causes include insufficient quotas and recommended images or flavors that do not meet requirements. Locate the fault based on the error message or ECS error code.
SMS- Workflow.0302	The target VM is abnormal.	Check whether the associated target ECS is, for example, locked or frozen.
SMS- Workflow.0303	Disks not found on target VM.	Check whether the target VM has disks attached. If no, attach disks and try again.
SMS- Workflow.0304	System disk not found on target VM.	Check whether the target VM has a system disk attached. If no, attach one and try again.
SMS- Workflow.0305	Obtain IP address of target VM failed.	If you are migrating over a public network, check whether there is an EIP bound to the target VM. If there is no EIP bound, bind one and try again.
SMS- Workflow.0306	Target server does not have the same number of disks as source server.	The target server has fewer disks than the source server. Attach disks as large as the source ones to the target server. Then try again.
SMS- Workflow.0307	Target server has disks smaller than source server.	The xth disk (* GB) of the target server is smaller than the paired one (* GB) of the source server. Adjust the disk size of the target disk and try again.
SMS- Workflow.0308	Insufficient ECS quota. Requested: x; and Available: y	Release unnecessary ECSs or submit a service ticket to increase the quota.
SMS- Workflow.0309	Insufficient CPU quota. Requested: x; Available: y	Release unnecessary resources or submit a service ticket to increase the quota.

Error Code	Description	Solution
SMS- Workflow.0310	Insufficient memory quota. Requested: x; Available: y	Release unnecessary resources or submit a service ticket to increase the quota.
SMS- Workflow.0311	The disk type of the target server is missing. Check the disk type recommended on the "Migration Solutions" page.	Check whether the recommended target disk type is empty. If it is, assess the source server again and retry the workflow.
SMS- Workflow.0312	The disk size of the target server is missing. Check the disk size recommended on the "Migration Solutions" page.	Check whether the recommended target disk size is empty. If it is, assess the source server again and retry the workflow.
SMS- Workflow.0313	Invalid source disk IDs used for generating target recommendatio ns. Assess the source server again.	Assess the source server and try the workflow step again. This is because if a source server is collected twice, the system generates different disk IDs for the server.
SMS- Workflow.0314	Firmware inconsistency between source and target servers.	The firmware type of the target server must be the same as that of the source server. Reconfigure the firmware type of the target server and try again.
SMS- Workflow.0315	Failed to obtain target image ID.	Try again. If the fault persists, contact technical support or submit a service ticket.
SMS- Workflow.0401	Download SMS- Agent installation package to source server failed.	Download SMS-Agent from the SMS console, and view the error message displayed during the download. The possible causes usually are network disconnection and failed execution of the download command.

Error Code	Description	Solution
SMS- Workflow.0402	Decompress SMS-Agent installation package failed on the source server.	One possible cause is that the tar command fails to be executed. Go to the /rda/ directory on the source server and run the tar -zxvf SMS-Agent.tar.gz command to view the error details.
SMS- Workflow.0403	Install SMS- Agent on Windows failed.	Check whether the SMSAgentDeploy.exe file is in the C:\SMS-Agent-Py2\ directory on the source server. If it is not there, delete the SMS-Agent-Py2 folder and double-click the installation package with the same name in drive C.
SMS- Workflow.0404	Start SMS- Agent failed.	 If the reported the error message is "SMS-Agent startup failed. For details, view the SMS migration logs on the source server," go to the following directory on the source server to view SMS run logs: Linux: /rda/SMS-Agent/agent/Logs Windows: C:\SMS-Agent-Py2\Logs If the reported error message is "System.OutOfMemoryException," see What Can I Do If the StartUpAgent Step Fails and the Error Message "System.OutOfMemoryException" Is Displayed?. If the reported error message is "SMS-Agent startup failed, Cause: the SMS-Agent is not running, please try again", you can try again. If the retry fails, rectify the fault by referring to step 2 in What Can I Do If the StartUpAgent Step Fails and the Error Message "System.OutOfMemoryException" Is Displayed?. If the fault persists, contact SMS technical support to view the migration logs.
SMS- Workflow.0405	Obtain cloud- region.json failed.	Log in to the source server and view the error information in the SMS run logs located in: • Linux: /rda/SMS-Agent/agent/Logs • Windows: C:\SMS-Agent-Py2\Logs If the fault cannot be located, contact SMS technical support to view the migration logs.

Error Code	Description	Solution
SMS- Workflow.0501	Could not find the migration task on the SMS console.	Go to the SMS console and check whether the migration task has been deleted. If the migration task has been deleted by mistake, create a migration workflow again on the MgC console.
SMS- Workflow.0502	The source server is disconnected from the SMS server.	Log in to the SMS console and check whether the migration task is in the Disconnected status. If the source server runs Linux, go to the /rda/SMS-Agent/ directory and run the restart.sh command to restore the connection. If the source server runs Windows, perform the migration again.
SMS- Workflow.0503	Migration task failed. SMS.xxxx	Go to the SMS console to view the error message and solution.
SMS- Workflow.0504	The migration task is paused or being paused.	Retry this step to continue the migration.
SMS- Workflow.0505	Obtain source server information failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
SMS- Workflow.0506	Obtain migration task information failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
SMS- Workflow.0507	Issue migration command failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
SMS- Workflow.0508	The current migration task is empty.	Try again. If the fault persists, contact technical support or submit a service ticket.
SMS- Workflow.0509	Delete SMS migration task failed.	Go to the SMS console and manually delete the task. After the deletion is complete, return to the MgC console and try again. NOTICE Only tasks in the paused, completed, or error state can be deleted.
SMS- Workflow.0510	Query migration progress failed.	Try again.

Error Code	Description	Solution
SMS- Workflow.0003	Input parameters are not in the standard JSON format.	Contact technical support or submit a service ticket to check whether the input parameters in this step are correct.
SMS- Workflow.0902	Stopping server timed out. Try again or manually stop the server and try again.	Go to the ECS console, manually stop the server, and retry the workflow. If the fault persists, contact technical support or submit a service ticket.
SMS- Workflow.0901	Failed to shut down servers in the *** status. Manually shut down the server and try again.	Go to the ECS console, manually stop the server, and retry the workflow.
SMS- Workflow.1204	Change the IP address of server *** failed. Failure cause: ***	 Failure cause: The IP address has been used. Unbind and release the private IP address and try again. If the fault persists, contact technical support or submit a service ticket. Failure cause: The IP address is not in the subnet. Use a VPC and subnet that match the private IP address of the source server to create a migration workflow again. If the fault persists, contact technical support or submit a service ticket. Failure cause: Success to change IP, but failed to the same private IP address as the source host Try again. If the fault persists, contact technical support or submit a service ticket. Failure cause: Failed to switch the VPC. Try again. If the fault persists, contact technical support or submit a service ticket.
Server- Workflow.0001	Workflow step *** not found.	Contact technical support or submit a service ticket.
Server- Workflow.0002	Workflow lacks parameter ***.	Contact technical support or submit a service ticket.

Error Code	Description	Solution
Server- Workflow.0003	Workflow parameter *** contains special characters.	Contact technical support or submit a service ticket.
Server- Workflow.0004	Network error ***. Please try again.	Try again. If the fault persists, contact technical support or submit a service ticket.
Server- Workflow.0005	The Region parameter is empty.	Contact technical support or submit a service ticket.
Server- Workflow.0006	Pre-migration verification failed.	Contact technical support or submit a service ticket.
Server- Workflow.0007	An unknown error occurs during the migration.	Contact technical support or submit a service ticket.
Server- Workflow.0008	Unknown error.	Contact technical support or submit a service ticket.
Server- Workflow.0009	Clearing resources failed	Go to the CBR and IMS consoles to manually delete temporary resources (whose names start with AZM_Create_Tempxxx), and try again.
Server- Workflow.0010	Request *** failed. Failure cause: ***. Try again.	Try again or find a solution here . If the fault persists, contact technical support or submit a service ticket.
Server- Workflow.0011	Query *** progress failed. Failure cause:	Contact technical support or submit a service ticket.
Server- Workflow.0012	Step *** is an instant action	Contact technical support or submit a service ticket.
Server- Workflow.0013	Verify template version failed.	Contact technical support or submit a service ticket.

Known Issues and Solutions About Cross-AZ Migration Workflows

Error Code	Description	Solution
AZ- Workflow.0001	Workflow step *** not found.	Contact technical support or submit a service ticket.

Error Code	Description	Solution
AZ- Workflow.0002	Workflow lacks parameter ***.	Contact technical support or submit a service ticket.
AZ- Workflow.0003	Workflow parameter *** contains special characters.	Contact technical support or submit a service ticket.
AZ- Workflow.0004	Network error ***. Please try again.	Try again. If the fault persists, contact technical support or submit a service ticket.
AZ- Workflow.0005	The Region parameter is empty.	Contact technical support or submit a service ticket.
AZ- Workflow.0006	Pre-migration verification failed.	Contact technical support or submit a service ticket.
AZ- Workflow.0007	An unknown error occurs during the migration.	Contact technical support or submit a service ticket.
AZ- Workflow.0008	Unknown error.	Contact technical support or submit a service ticket.
AZ- Workflow.0009	Clearing resources failed	Go to the CBR and IMS console to manually clear temporary resources (whose names start with AZM_Create_Tempxxx), and try again.
AZ- Workflow.0010	Request *** failed. Failure cause: ***. Try again.	Try again. If the fault persists, contact technical support or submit a service ticket.
AZ- Workflow.0011	Query *** progress failed. Failure cause:	Contact technical support or submit a service ticket.
AZ- Workflow.0012	Step *** is an instant action	Contact technical support or submit a service ticket.
AZ- Workflow.0101	Source server *** not found.	Check whether the server ID is the source server ID and whether the source server can be found.
AZ- Workflow.0102	Source server *** is not ready for migration.	Check whether the source server is normal. If it is abnormal, contact ECS technical support.

Error Code	Description	Solution
AZ- Workflow.0202	AZ *** does not exist.	Delete the migration workflow, create a cross-AZ migration application, and select an available AZ.
AZ- Workflow.0201	AZ *** is unavailable.	Delete the migration workflow, create a cross-AZ migration application, and select another AZ.
AZ- Workflow.0301	Insufficient quotas.	Increase quotas and try again.
AZ- Workflow.0302	Insufficient ECS quota.	Increase the ECS quota and try again.
AZ- Workflow.0303	Insufficient vCPU quota.	Increase the vCPU quota and try again.
AZ- Workflow.0304	Insufficient memory quota.	Increase the memory quota and try again.
AZ- Workflow.0401	Flavor *** is unavailable.	Delete the migration workflow, modify the recommended target specifications, and create a migration workflow again.
AZ- Workflow.0402	Disk type *** is not available in AZ ***.	Delete the migration workflow, modify the recommended target specifications, and create a migration workflow again.
AZ- Workflow.0403	Disk type *** is sold out in AZ ***.	Delete the migration workflow, modify the recommended target specifications, and create a migration workflow again.
AZ- Workflow.0404	The source server has *** NICs. Flavor *** supports a maximum of *** NICs. Select another flavor.	Delete the migration workflow, modify the recommended target specifications, and create a migration workflow again.
AZ- Workflow.0405	Parse disk information failed.	Contact technical support or submit a service ticket.
AZ- Workflow.0406	The disk_infos parameter is empty.	Contact technical support or submit a service ticket.
AZ- Workflow.0501	Create backups failed. Failure cause: ***	Rectify the fault based on the error message. Go to the CBR console to check whether backups are created.

Error Code	Description	Solution
AZ- Workflow.0502	Unable to associate source server *** with vault ***.	Contact technical support or submit a service ticket.
AZ- Workflow.0503	Vault *** is unavailable.	Delete the vault and try again.
AZ- Workflow.0901	Failed to shut down servers in the *** status. Manually shut down the server and try again.	Go to the ECS console, manually stop the server, and retry the workflow.
AZ- Workflow.0902	Stopping server timed out. Try again or manually stop the server and try again.	Go to the ECS console, manually stop the server, and retry the workflow.
AZ- Workflow.0601	Create incremental backups failed. Failure cause:	Rectify the fault based on the error message, contact technical support, or submit a service ticket.
AZ- Workflow.0701	Create full-ECS image failed. Failure cause:	Rectify the fault based on the error message, contact technical support, or submit a service ticket.
AZ- Workflow.0801	Create target server failed. Failure cause:	Rectify the fault based on the error message, contact technical support, or submit a service ticket.
AZ- Workflow.0802	Servers with system disks larger than 1 TB cannot be migrated.	Contact technical support or submit a service ticket.
AZ- Workflow.0803	Invalid size of disk ***.	Contact technical support or submit a service ticket.
AZ- Workflow.0804	Source server *** not found in VPC ***.	Contact technical support or submit a service ticket.

Error Code	Description	Solution	
AZ- Workflow.0805	Image *** is not found or unavailable.	Go to the IMS console to check the image status and contact IMS support to confirm whether the image can be restored automatically. If it cannot, contact technical support or submit a service ticket.	
AZworflow.090 1	Servers in the *** status cannot be stopped. Manually shut down servers and try again.	Go to the ECS console, manually stop the server, and retry the workflow.	
AZworflow.090 2	Stopping server timed out. Try again or manually stop the server and try again.	Go to the ECS console, manually stop the server, and retry the workflow.	
AZ- Workflow.1001	Delete full-ECS images failed. Failure cause:	Go to the IMS console to manually delete these images (whose names start with AZM_Create_Tempxxx), and try again.	
AZ- Workflow.1002	Delete backups failed. Failure cause: ***	Go to the CBR console to manually delete these backups (whose names start with AZM_Create_Tempxxx), and try again.	
AZ- Workflow.1003	Delete vault *** failed. Failure cause: ***	Go to the CBR console to manually delete the vault (whose name starts with AZM_Create_Tempxxx), and try again.	
AZ- Workflow.1101	The server_id parameter is empty.	Contact technical support or submit a service ticket.	
AZ- Workflow.1102	Create system disk images failed. IMS error code: ***, error message: ***	Retry the task again or contact the IMS support.	
AZ- Workflow.1201	Target server has an EIP bound. Unbound the EIP and try again.	Check whether the target server has an EIP bound and whether the EIP is one bound to the source server. If it is not, unbind the EIP from the target server.	

Error Code	Description	Solution	
AZ- Workflow.1202	Source server *** is not stopped. Manually stop it and try again.	Check whether the source server is stopped. If it is not, stop it and try again.	
AZ- Workflow.1203	Target server *** is not stopped. Manually stop it and try again.	Check whether the target server is stopped. If it is not, stop it and try again.	
AZ- Workflow.1204	Change the IP address of server *** failed. Failure cause: ***	Rectify the fault based on the error message, contact technical support, or submit a service ticket.	

Known Issues and Solutions About MgC

Error Code	Description	Solution
MgC.000301 01	Unknown error.	There are many possible causes for this error, for example, the network could be abnormal. Try this workflow step again. If the fault persists, contact technical support or submit a service ticket.
MgC.000105 32	Involved collection task not found.	Associate the collection item with another collection task.
MgC.000105 33	Add data source failed.	Contact technical support or submit a service ticket.
MgC.000105 34	Data source not found.	Refresh the collection item list and check whether the data source exists.
MgC.000001 01	Could not collect information from Alibaba Cloud RM.	Debug API SearchResources by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
MgC.000001 02	Could not collect information from Alibaba Cloud RM.	Debug API GetResourceConfiguration by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.

Error Code	Description	Solution
MgC.000001 03	Credential not found.	Check whether the selected credential can be found on the Credentials page.
MgC.000001 04	Credential expired.	Update the credential on the Credentials page.
MgC.000001 05	Wrong credential type. Select AK/SK credentials.	Select AK/SK credentials.
MgC.000001 06	Incorrect file format.	Upload a file in the correct format.
MgC.000001 07	Could not query domain names in pagination mode.	Debug API DescribeDomains by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
MgC.000001 08	Could not query DNS records in pagination mode.	Debug API DescribeDomainRecords by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
MgC.000001 09	Could not invoke the Alibaba Cloud WAF SDK.	Debug API DescribeDomains by following the instructions provided in the Alibaba Cloud Resource Management Documentation and locate the fault cause based on the returned error code, or contact Alibaba Cloud technical support.
MgC.000001 10	Create Alibaba Cloud SLB SDK client failed.	Check whether the selected credential and regions are correct.
MgC.000001 11	Uploaded file contains invalid data.	Enter valid values.
MgC.000001 12	Uploaded file failed the verification.	Contact technical support or submit a service ticket.

Error Code	Description	Solution
MgC.000001 13	Required fields are missing in uploaded file.	Specify required fields.
MgC.000001 14	Table headers of uploaded file are incorrect.	Enter a correct table header.
MgC.000001 15	Table headers of uploaded file are invalid.	Check whether non-customized table headers in the template have been modified.
MgC.000001 16	Unexpected domain names found in "Domain" sheet.	Ensure that domain names entered in the "Application" and "MQ" sheets have been entered in the "Domain" sheet.
MgC.000001 17	Invalid file content.	Check whether the import template was modified or download the template again.
MgC.000002 00	File upload failed.	Contact technical support or submit a service ticket.
MgC.000002 01	File download failed.	Contact technical support or submit a service ticket.
MgC.000002 02	Uploaded file not found or expired.	Upload a new file, or rename the file and upload it again.
MgC.000203 21	Server assessment failed. Matched target specification s not found in target AZ.	Handle this issue by referring to What Can I Do If a Server Assessment Fails and the System Displays a Message Indicating No Proper Specifications Are Matched?
MgC.000301 42	Daily workflow quota exhausted.	Switch to another project or delete a completed workflow in the current project.

Error Code	Description	Solution
MgC.000301 43	Maximum resources for a workflow reached.	Ensure that no more than 100 resources are included in the workflow.
MgC.010000 04	Call FunctionGra ph APIs failed. Try again later.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000000 15	Deliver command to Edge failed.	Check the MgC Agent logs. If the MgC Agent logs record "channel is not opened," the network connection between the MgC Agent and the source server is abnormal. Check and restore the network connection and try again. The MgC Agent log files are located at:
		 Linux: /opt/cloud/Edge/logs/the MgC Agent- server/run.log
		 Windows: C:\Edge\logs\the MgC Agent- server\run.log

Known Issues and Solutions About Resource Assessment

Error Code	Description	Solution
MgC.000000 01	Network connection error.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000000 02	Invalid token.	Obtain a valid token.
MgC.000000 03	Invalid HTTP request method or URL.	Check and ensure that the HTTP request method and URL are correct.
MgC.000000 04	Invalid parameter value.	Check the parameters and try again.
MgC.000202 01	Server assessment failed. Obtain ECS flavors failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 02	Server assessment failed. Source server ID not found.	The source server ID is missing. Perform a deep collection for the server and try again.
MgC.000202 03	Server assessment failed. Query IMS images failed.	Try again. If the fault persists, contact technical support or submit a service ticket.

Error Code	Description	Solution
MgC.000202 04	Query EVS disk types failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 05	No EVS disk types match source server.	Modify the assessment policy and try again.
MgC.000202 06	Query IMS images failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 07	Disk type matching source server sold out in target region.	Modify the assessment policy and try again.
MgC.000202 08	Query EVS AZ availability failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 09	Source server runs Windows. Matched target specifications do not support Windows.	Modify the assessment policy and try again.
MgC.000202 10	Source server runs Linux. Matched target specifications do not support Linux.	Modify the assessment policy and try again.
MgC.000202 11	No images match source server specifications.	Query IMS images failed. Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000200 07	Server assessment failed. Source disk information is missing.	The source server disk information is missing. Perform a deep collection for the server and try again.
MgC.000202 12	Server assessment failed. Invalid source disk IDs.	The disk IDs of the source server are invalid. Perform a deep collection for the server and try again.
MgC.000202 13	Source server being assessed. You cannot assess it again now.	The assessment is in progress. Try again after the current assessment is complete.
MgC.000202 14	Server assessment results not found.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 15	Modify server assessment results failed.	Try again. If the fault persists, contact technical support or submit a service ticket.

Error Code	Description	Solution
MgC.000202 16	Modify server assessment results failed. Specifications not found.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 17	Modify server assessment results failed. No images match.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 18	Modify server assessment results failed. Disk size too large.	Downsize disks and try again.
MgC.000202 19	Failed to create an assessment for cross-AZ migration. Target AZ is missing.	Select a target AZ and try again.
MgC.000202 20	Source server is already in target AZ.	Select another AZ and try again.
MgC.000202 21	Selected OS is different from source OS.	Select another OS and try again.
MgC.000202 22	Image not available.	Selected image has been taken offline. Select another one and try again.
MgC.000202 23	Modify server assessment results failed. Specified disk size cannot be smaller than source disk size.	Modify the disk size.
MgC.000202 29	Server assessment failed. Source server specifications information is missing.	The source server specifications information is missing. Perform a deep collection for the server and try again.
MgC.000202 30	Server assessment failed. No proper target specifications.	Modify the assessment policy and try again.
MgC.000202 31	Server assessment failed. No target specifications meet assessment policy.	Modify the assessment policy and try again.
MgC.000202 32	Server assessment failed. No proper target specifications meet your preferences.	Modify the assessment policy and try again.

Error Code	Description	Solution
MgC.000202 33	Server assessment failed. No target specifications meet business scenario.	Modify the assessment policy and try again.
Sms.0007004 0	Source performance data is missing. Perform a performance collection for source server.	Source server performance data is missing. Perform a deep collection for the server and try again.
Sms.0007004 1	Source server performance data is missing. Perform a performance collection for source server.	The source server's performance data is missing. Perform a deep collection for the server and try again.
Sms.0007004 2	Incorrect CSV file of server performance data.	Launch a performance collection for the server and try again.
MgC.000710 42	Your preferences could not be met.	Selected disk type not available in current region. Modify the assessment policy and try again.
MgC.000710 72	Server assessment failed. Matched target specifications not found in target AZ.	Select a target AZ and try again. or manually modify the target specifications.
MgC.000710 66	Source server specifications are not supported. Manually associate an existing target server.	Associate an existing target server.
MgC.000700 49	Server assessment failed.	Try again. If the fault persists, contact technical support or submit a service ticket.
MgC.000202 71	Flavor abandoned.	Change the specifications and try again.
MgC.000202 72	The flavor does not support the disk type.	Change the flavor or disk type and try again.
MgC.000203 45	Failed to purchase server with specified specifications.	Rectify the fault based on the returned error information. If the fault persists, contact technical support or submit a service ticket.
MgC.000203 46	Network connection error.	Try again. If the fault persists, contact technical support or submit a service ticket.

Known Issues and Solutions About Resource Discovery

Error Code	Error Cause	Solution
MgC.000000 01	Network connection error.	Check the network connection and try again.
MgC.000000 20	Parameters do not match.	Check parameter settings and try again.
MgC.000000 22	Decrypt data failed.	Try again later. If the fault persists, contact technical support or submit a service ticket.
MgC.000003 00	Send message to device failed.	Ensure that the device is online.
MgC.000001 29	Access Huawei Cloud APIs failed. Check the network.	Check whether the network connection is normal and try again.
MgC.000001 30	Incorrect IAM authentication information. Check the AK/SK pair.	Check if the AK/SK pair is correct and up-to-date.
MgC.000001 31	Create client on Huawei Cloud failed.	Ensure that all settings are correct and try again.
MgC.000001 32	Access key not found or disabled.	Check whether the access key is correct and enabled.
MgC.000001 36	Request failed. Temporary server error.	Wait until the server recovers and try again.
MgC.000001 38	Request signature does not meet Alibaba Cloud requirements.	Ensure that your request signature meets Alibaba Cloud requirements and try again.
MgC.000001 39	Specified signature does not match calculated result.	Check your signature and try again.
MgC.000001 40	Other exceptions.	Wait until the server recovers and try again.
MgC.000001 44	Other exceptions.	Wait until the server recovers and try again.
MgC.000001 45	File parsing failed.	Ensure that the file format and content are correct and try again.
MgC.000001 46	Request to Alibaba Cloud APIs denied due to flow control.	Try again later.

Error Code	Error Cause	Solution
MgC.000001 48	Check proxy settings.	Ensure that the proxy server is configured correctly.
MgC.000001 49	Create client on Alibaba Cloud failed.	Ensure that all settings are correct and try again.
MgC.000001 50	Request to Huawei Cloud APIs denied due to flow control.	Try again later.
MgC.000001 56	Insufficient permissions.	Ensure that you have the required permissions.
MgC.000001 61	Collector server error.	Try again later. If the fault persists, contact technical support or submit a service ticket.
MgC.000105 26	Execute analysis task failed.	Try again later. If the fault persists, contact technical support or submit a service ticket.
MgC.000105 27	Task execution timed out.	Try again later. If the fault persists, contact technical support or submit a service ticket.
MgC.000001 63	Request redirected by source. Try again.	Try again later. If the fault persists, contact technical support or submit a service ticket.
MgC.000001 03	Credential not found.	Upload the right credential.
MgC.000001 04	Credential expired.	Upload a valid credential.
EDGE.001700 20	Resource collection failed. Credential not found.	Upload the right credential.
EDGE.001700 21	Credential expired.	Upload a valid credential.
EDGE.001700 24	The MgC Agent does not support collection using cloud credentials.	Use a valid credential.
EDGE.001700 25	Resource collection failed. IP address does not match network range specified for credential.	Upload a credential that matches the IP address range.

Error Code	Error Cause	Solution
EDGE.002600 03	Incorrect username or password, or mismatch between IP address and username/password pair.	Check whether the username and password are correct and whether they match the IP address. Ensure that the IP address is correct and try again.
EDGE.000300 22	Collector not installed.	Install the MgC Agent collector.
EDGE.000300 23	The collector is offline.	Check whether the MgC Agent collector is online.
SERVER.0000 0002	Invalid IP address or WinRM not running.	Check whether WinRM is started using winrm quickconfig on the source server.
SERVER.0000 0003	Incorrect username or password, or mismatch between IP address and username/password pair.	Ensure the username and password are correct and they match the IP address.
SERVER.0000 0006	Collect required information failed. Check whether .Net Framework, WMI, and COM on the source server are damaged.	Check whether necessary WMI classes are missing in the Windows system. If the WMI classes are missing, rectify the fault or reconfigure the WMI classes. After the fault is rectified, perform a deep collection again.
		 The necessary WMI classes include: Win32_Processor Win32_Computersystem Win32_DiskPartition Win32_Volume Win32_DiskDrive Win32_networkadapterconfiguration Win32_OperatingSystem Win32_Service Win32_PerfFormattedData_PerfDisk_PhysicalDisk Win32_PerfFormattedData_PerfOS_Processor
SERVER.0001 0002	SSH connection failed. Incorrect username or password, or unreachable IP address.	Ensure that the username, password, and IP address are correct.

Error Code	Error Cause	Solution
PLATFORM.0 0070003	Incorrect username or password.	Check whether your username and password are correct.
PLATFORM.0 0070002	Access vCenter failed. Check whether the IP address and credential are correct.	Check whether the vCenter IP address and credential are correct and whether the network connection is normal.

Known Issues and Solutions About the MgC Agent for Windows

Error Code	Description	Solution
EDGE.00000 001	Unknown error.	There are many possible causes for this error, for example, the network could be abnormal. Try this workflow step again. If the fault persists, contact technical support or submit a service ticket.
EDGE.00260 001	Source IP address unreachable.	Check whether the access IP address is correct.
EDGE.00260 002	Source WinRM unreachable.	Check whether WinRM is started or whether the port is being listened on. You can check that using the following PowerShell command on the source server: winrm fastconfig
EDGE.00260 003	Invalid source credential.	Check whether the credential provided to the MgC Agent is correct.
EDGE.00260 004	Insufficient credential permissions.	Check whether the account is in the administrator user group.
EDGE.00260 005	Access source WinRM failed.	Check whether the firewall on the source server is disabled.
EDGE.00260 006	Necessary components not found at source.	Check whether .NET Framework, WMI, and COM on the source server are damaged.
EDGE.00260 007	Edge does not trust source server.	Run the following command on the server where the MgC Agent is installed to trust the source server: set-item wsman:localhost\\client\\trustedhosts -value *

Known Issues and Solutions About the MgC Agent for Linux

Error Code	Description	Solution
EDGE.00261 001	Source IP address unreachable.	Check whether the access IP address is correct.
EDGE.00261 002	Source port unreachable.	Check whether the source port can be reached using telnet.
EDGE.00261 003	SSH connection to source server failed.	Rectify the fault based on the error message. If the fault persists, contact technical support or submit a service ticket.
EDGE.00261 004	Invalid source credential.	Check whether the credential provided to the MgC Agent is correct.
EDGE.00261 005	Source SFTP unavailable.	Check whether the MgC Agent server can access SFTP on the source server.
EDGE.00261 006	Source account directory not found.	Check whether the source account directory exists.
EDGE.00261 007	tty for running sudo is not disabled.	Comment out the following default values in the source configuration file:
		requiretty in the user!/etc/ssh/ sshd_config file or Defaults requiretty in the /etc/sudoers file

Issues About Other Cloud Services

Error Code	Description	Solution
Ecs.0319	Insufficient resources for this ECS flavor.	Go to the Migration Solutions or Migration Plans page, modify the target server specifications or use an existing server as the target server. Then try the workflow again.
Ecs.0707	Target server flavor not found or unavailable.	Go to the Migration Solutions or Migration Plans page, modify the target server specifications or use an existing server as the target server. Then try the workflow again.
Vpc.0702	Invalid parameters.	Check whether the parameter values are valid based on the returned error message. For more information, see: VPC Error Codes