



Object Storage Migration Service

Product Introduction

Issue 02

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1 Introduction

Object Storage Migration Service is an online data migration service that helps users migrate object storage data from the public cloud of other cloud service providers to the OBS on HUAWEI CLOUD.

 **NOTE**

OBS data can be migrated from Amazon Web Services (AWS), Alibaba Cloud, Baidu Cloud, HUAWEI CLOUD, Kingsoft Cloud, Qingyun Cloud, Qiniu Cloud, and Tencent Cloud.

The typical application scenarios of the Object Storage Migration Service are as follows:

- Object data migration: When your typical web applications are migrated to HUAWEI CLOUD, Object Storage Migration Service allows you to migrate your object storage data to HUAWEI CLOUD OBS buckets.
- Cloud disaster recovery: Object Storage Migration Service allows you to replicate your object storage data to HUAWEI CLOUD OBS buckets for disaster recovery and backup.
- Object data restoration: Object Storage Migration Service allows you to use data backed up on platforms of other cloud service providers to restore the object storage data lost on HUAWEI CLOUD.

2 Functions

Object Selection

- Selection of source objects: You can select files and folders, object lists, or objects with a specified name prefix.
- Filtering of source objects by condition: You can migrate source objects that have been modified or added after a specified time.

Multiple Tasks

- For large-capacity and large-scale object migration, the Object Storage Migration Service provides the pre-migration evaluation to analyze data in buckets.
- The system creates migration tasks in batches based on evaluation results to maximize concurrent performance of the service.
- You can manage migration tasks in groups.

Efficient Transmission

- Parallel migration: supports concurrent migration of multiple objects.
- Archive data restoration: automatically restores the archive data and migrates it to the target bucket.
- Custom domain name migration: allows you to use the customized domain name of a source bucket for the migration.
- Object recording: records the objects that fail to be migrated and retransmit these failed objects.
- Traffic limit: allows you to set maximum traffic bandwidths for different time segments.
- Resumable transmission: If the network is interrupted during migration, the Object Storage Migration Service allows you to manually restart the task to transfer data from where it stops, eliminating the need to retransmit the data that has been migrated.

Result Notification

For migration tasks that may take a long period, you can use the Simple Message Notification (SMN) service to obtain migration task results through emails, SMS messages, or customized URLs.

3 Advantages

The Object Storage Migration Service has the following advantages:

- **Ease to Use**

All you need to do is logging in to the management console, switching to the **Object Storage Migration Service** page, creating a migration task, and waiting for the migration to complete.

- **Security Authentication**

The authentication process of the Object Storage Migration Service involves authenticating an access key (AK) and a secret access key (SK). This process ensures that your identity is authenticated before data transmission to avoid data theft and misuse.

 **NOTE**

- An AK and an SK need to be entered for security authentication when a migration task is to be created. After the AK and SK verification succeeds, the system can access the source and the destination data, thereby successfully creating the migration task. After the migration task is created, the AK and SK will be encrypted and saved in the database and will be deleted after the migration task is failed, succeeded, or suspended. If the migration task is in the waiting status, the AK and SK will be temporarily saved up to 72 hours.
 - An AK and an SK are encrypted using the Advanced Encryption Standard (AES) which is commonly used in the industry.
- **Encrypted Transmission**

The Object Storage Migration Service encrypts the data to be transmitted online using HTTPS to ensure data security during transmission.

 **NOTE**

You should be clear whether the source cloud service provider supports HTTPS before migration. Some source cloud service providers may support only online HTTP transmission.

- **Storage Encryption**

The Object Storage Migration Service encrypts the object data migrated to HUAWEI CLOUD to make your data more secure.

4 Object Storage Migration Service and Other Services

Table 4-1 lists the services related to Object Storage Migration Service.

Table 4-1 Related services

Function	Related Service	Reference
The Object Storage Migration Service migrates the source object data to the OBS buckets created on HUAWEI CLOUD.	OBS	Creating an Object Storage Migration Task Creating Multiple Object Storage Migration Tasks Creating a Migration Task Group
The Object Storage Migration Service uses Key Management Service (KMS) to encrypt files migrated to HUAWEI CLOUD OBS buckets. KMS is included in the DEW service.	Data Encryption Workshop (DEW)	
SMN helps you to quickly obtain migration task results.	SMN	
CTS helps you record operations associated with Object Storage Migration Service for later query, audit, and backtrack operations.	Cloud Trace Service (CTS)	Viewing CTS Traces

5 Privacy Statement

Read and understand this Privacy Statement before using HUAWEI CLOUD services.

The core service function of the Object Storage Migration Service is migrating object storage data.

For service requirements, you need to agree us to collect and use your personal and sensitive personal information, AK and SK of the source cloud service, CDN key, HUAWEI CLOUD AK and SK, as well as your HUAWEI CLOUD user ID, project ID, and account ID.

The preceding information will be used to provide the Object Storage Migration Service to you. The system will automatically delete the AK and SK of your source cloud service, CDN key, and HUAWEI CLOUD AK and SK after your migration is complete. HUAWEI CLOUD user ID, project ID, and account ID will be deleted at your account deletion request.

Your information is securely saved and protected, which including, but not limited to data encryption.

HUAWEI CLOUD does not share, transfer, or disclose your information without your prior consent unless otherwise required by laws and regulations.

You have permission to access, modify, change, and delete the above information. To exercise your rights, please contact us by submitting a service ticket.

The above information is stored in the region or country you have selected.

You must ensure that your use of the Object Storage Migration Service in compliance with laws and regulations. HUAWEI CLOUD only provides the standard migration service upon your request and is not responsible for the legal compliance of your use.

You understand that the preceding information is necessary to provide services to you. If you do not provide or disallow us to collect and use the above information, HUAWEI CLOUD will not be able to provide the Object Storage Migration Service.

If you have any question, contact us by submitting a service ticket.

6 Change History

Released On	Description
2019-08-31	This issue is the second official release. <ul style="list-style-type: none">● Updated Functions.● Updated Object Storage Migration Service and Other Services.
2019-07-25	This issue is the first official release.