File storage (NAS) migration

Overview

Reliable migration is essential in the transition to SDS Cloud.

SDS Cloud provides a variety of storage migration functions, including File Storage that attracts users from various fields.

File storage migration uses a vendor migration tool, which is a solution that provides replication between heterogeneous file storage.
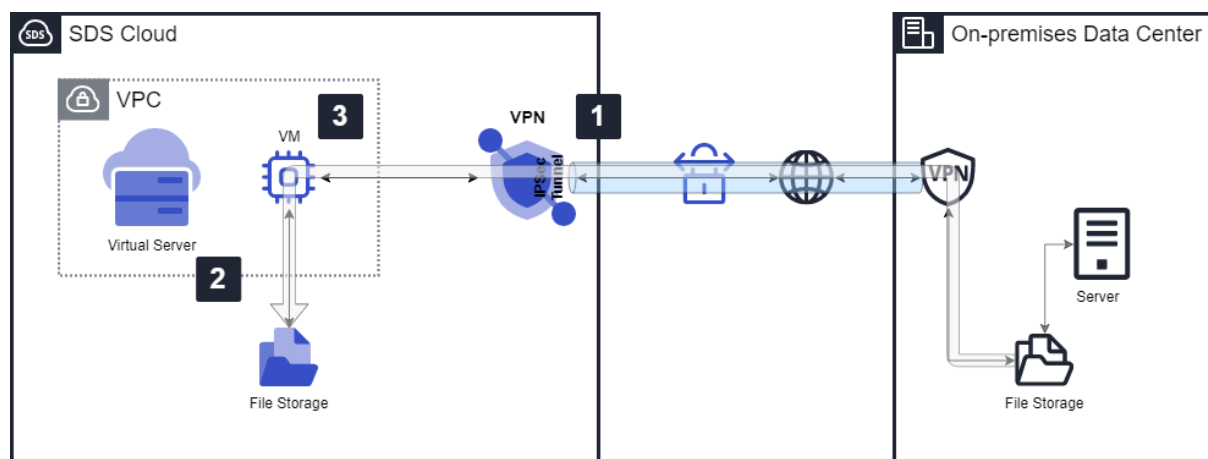
Architecture Diagram

Figure 1. File storage migration using migration tool

1. Configure a **VPN** network tunnel for secure communications between file storage and SDS Cloud.

2. Create a **VPC** in SDS Cloud and apply for **Virtual Server** and **File Storage** resources.

3. Install the migration tool on the virtual server and conduct incremental replications.

Use Cases

A. Migration from NAS to NAS

Fast data transfer is enabled even in environments with a large capacity or number of files. Downtime is minimized by using the cutoff method for the most recently changed (incremental) data after online migration of operational tasks.

    B.   Migration from files to NAS

It is possible to transfer data in the forms of web, WAS, images, and files in various work environments. Network-level transmission is also enabled without filesystem mounts.

Pre-requisites

The volume to be migrated (as-is and to-be) must be mounted in the OS where the vendor migration tool is installed.

Limitations

ACL policies on Microsoft Windows system cannot be transferred with vendor migration tool. If an ACL transfer (e.g. ACL setting of SMB volume) is required, a separate solution dedicated to Microsoft Windows system can be used.

Considerations

During migration, VPN tunnel-based interworking is required for network security of the customer and SDS Cloud.

The migration tool provides an average speed of 800MB/s (based on 10G 2-port), and the user should be able to estimate the migration time according to the appropriate environment.

After completing the transfer through the copy-sync-verify process, the user needs to confirm the verification report.

Related Products

- Virtual Server
- VPC

- VPN

- File Storage

Related Documents

- Vendor Migration Tool - [NetApp XCP](#)