Amazon Storage Gateway & Snowball

Amazon Web Services

AWS Storage Gateway

The AWS Storage Gateway is a service that enables you to connect an on-premise software appliance to the AWS cloud-based storage and provide you with storage options to connect to Amazon S3 and Amazon Glacier. This AWS services enables to build a Hybrid storage solution and essentially scale your storage capacity without having to procure additional on-premise storage hardware.

AWS Storage Gateway

AWS Storage Gateway

- Your applications connect to the service through a virtual machine or hardware gateway appliance using standard storage protocols, such as NFS, SMB and iSCSI.

- The gateway connects to AWS storage services, such as Amazon S3 and provides storage for files, volumes, and virtual tapes in AWS.

- You can use the service for backup and archiving, disaster recovery, cloud data processing, storage tiering, and migration

AWS Storage Gateway

Gateway Types

AWS Storage Gateway offers

- File Gateway
- Volume Gateway – Stored Mode & Cached Mode
- Tape Gateway

AWS Storage Gateway

Deployment Options

- Virtual machine containing the Storage Gateway software, which can run on VMware ESXi, Microsoft Hyper-V on premises,

- Hardware appliance on premises

- VM in VMware Cloud on AWS

- AMI in Amazon EC2.

AWS Snowball

Snowball is a petabyte-scale data transport solution that uses devices designed to be secure to transfer large amounts of data into and out of the AWS Cloud. It is an Amazon Disk Appliance that comes with an enclosure unit designed for security. You can use Snowball to help accelerate petabyte scale data into and out of AWS.

AWS Snowball Edge

AWS Snowball Edge is a new service that provides a 100 TB data transfer device with onboard storage and compute capabilities. In addition to transferring data to AWS, Snowball Edge can be used to provide compute processing services. Some Features include:

- An Amazon S3-compatible endpoint on the device.

- Network File System (NFS) Support

- A cluster mode where multiple Snowball Edge devices can act as a single, scalable storage pool with increased durability.

- Run AWS Lambda functions as data is copied to the device.

AWS Snowmobile

AWS Snowmobile is an Exabyte-scale data transfer service used to move extremely large amounts of data to AWS. You can transfer up to 100PB per Snowmobile, a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck. When the Snowmobile is delivered to your datacenter, an AWS personnel will configure it for you so it can be accessed as a network storage target from your IT infrastructure.

Next Video

Amazon Virtual Private Cloud