



AWS Storage Gateway

At the core of the lesson

You will learn how to define AWS Storage Gateway, what its key concepts are, and how it works.

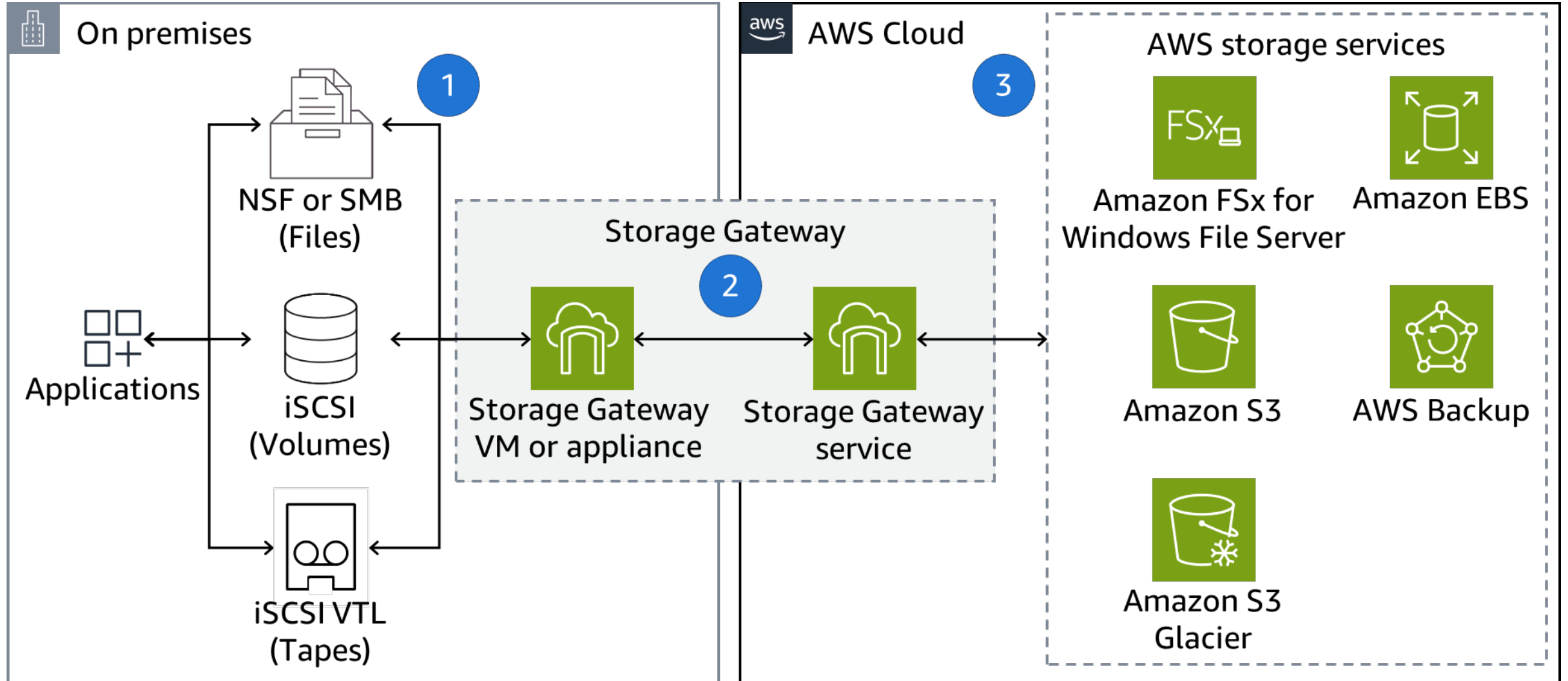
What is Storage Gateway?



AWS Storage
Gateway

- Storage Gateway is a hybrid storage service that enables on-premises applications to use AWS Cloud storage.
- You can use Storage Gateway for backup and archiving, disaster recovery (DR), cloud data processing, storage tiering, and migration.
- Storage Gateway supports file, volume, and tape interfaces.

How Storage Gateway works



Storage Gateway features

Storage Gateway includes the following key features:

- Provides durable storage of on-premises data in the AWS Cloud
- Uses standard storage protocols
- Provides fully managed caching
- Transfers data in an optimized and secure manner
- Can be implemented on premises as a virtual machine (VM) or a hardware device



Storage Gateway types



Amazon S3
File Gateway

Native file access to
data stored in
Amazon Simple
Storage Service
(Amazon S3)



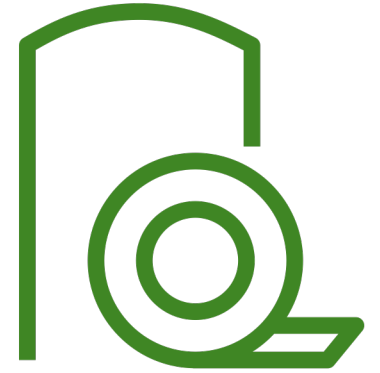
Amazon FSx
File Gateway

Native file access to
file shares on FSx for
Windows File Server



Volume Gateway

Access to block
storage volumes
backed up as
Amazon Elastic Block
Store (Amazon EBS)
snapshots

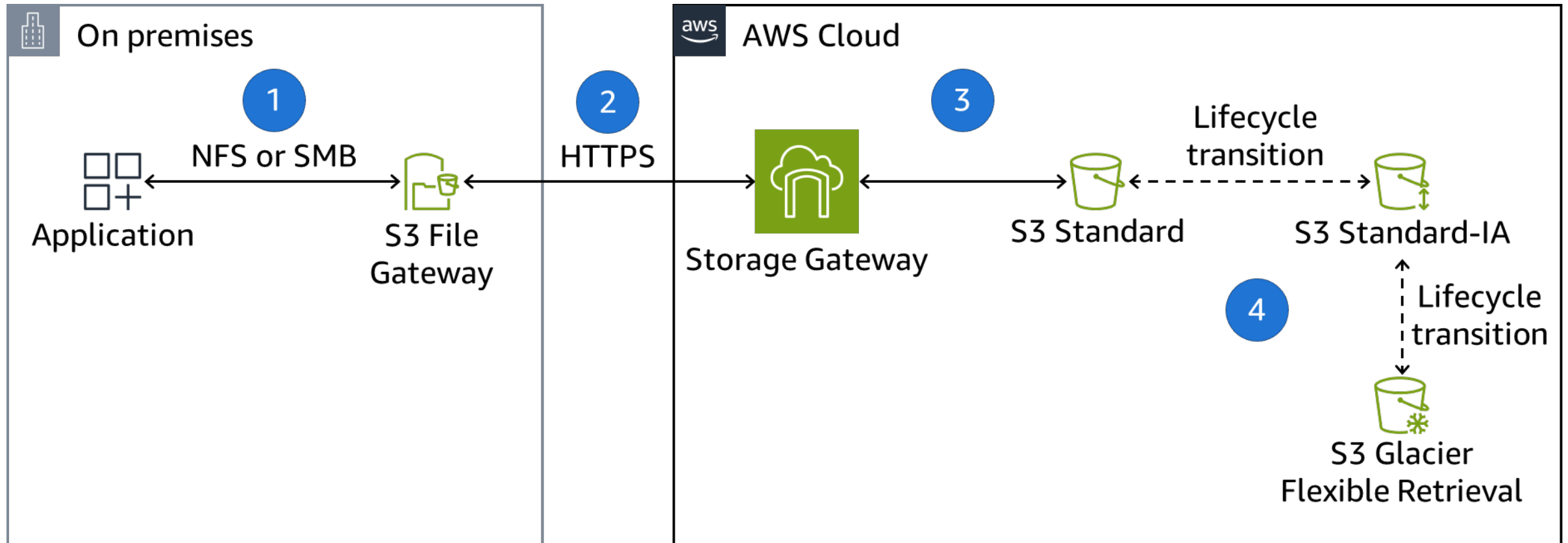


Tape Gateway

Access to a virtual
tape library that uses
Amazon S3 archive
tiers for long-term
retention

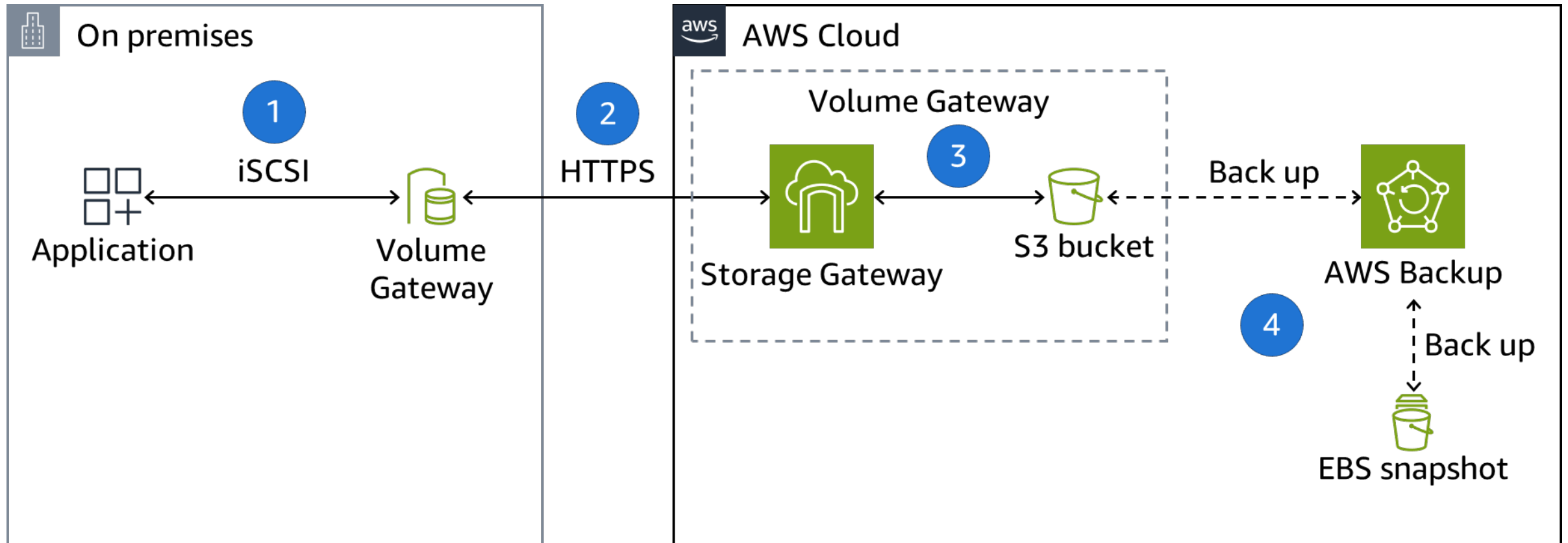
S3 File Gateway

Store and access files as objects in Amazon S3.



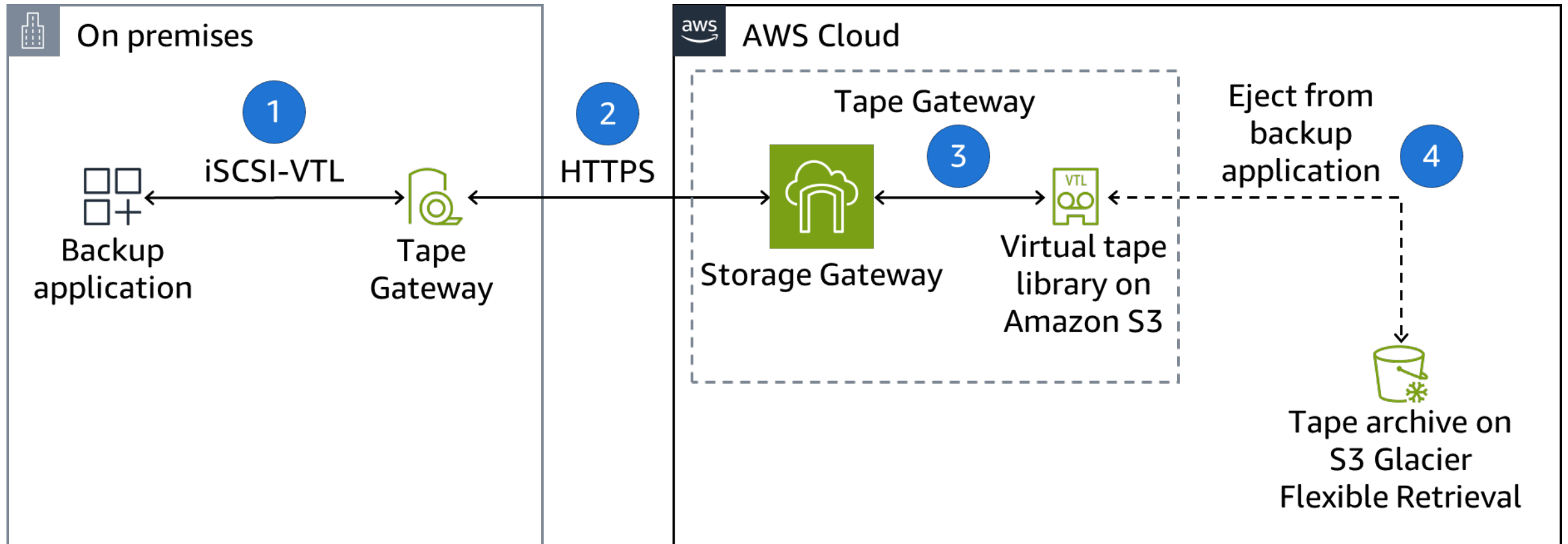
Volume Gateway

Access block storage as volumes on Amazon S3.



Tape Gateway

Back up and archive data to virtual tape on Amazon S3.



Storage Gateway use cases

- Move backups and archives to the cloud.
- Reduce on-premises storage with cloud-backed file shares.
- Provide on-premises applications with low-latency access to data that is stored in AWS.
- Provide on-premises applications with seamless use of AWS storage.

Checkpoint questions

1. What are the four Storage Gateway types?
2. What are the two ways to deploy the on-premises component of Storage Gateway?
3. A systems administrator wants to archive the log files of an on-premises database to the AWS Cloud and store them for the lowest cost. Which Storage Gateway type should the administrator choose?

Key ideas



- Storage Gateway provides durable storage of on-premises data in the AWS Cloud.
- Storage Gateway provides three types of storage interfaces for on-premises applications: file, volume, and tape.
- Storage Gateway consists of a cloud and an on-premises component. The on-premises component can be deployed as a VM or a hardware appliance.
- Use Storage Gateway for hybrid scenarios where some storage is needed on premises but some storage can be offloaded to cloud storage services (Amazon S3, Amazon S3 Glacier, or Amazon EBS).



Thank you

Corrections, feedback, or other questions?

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