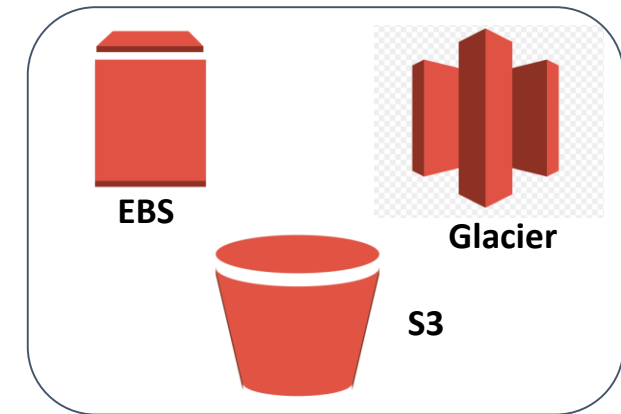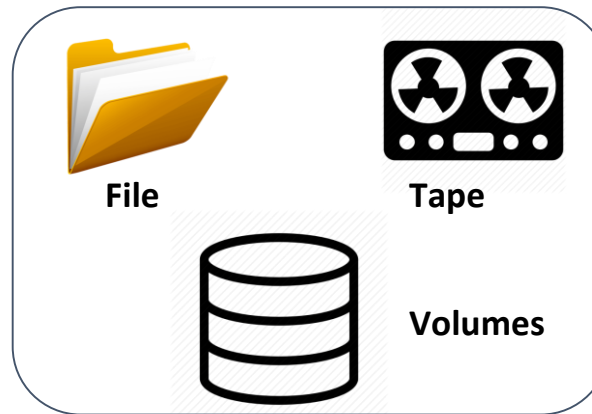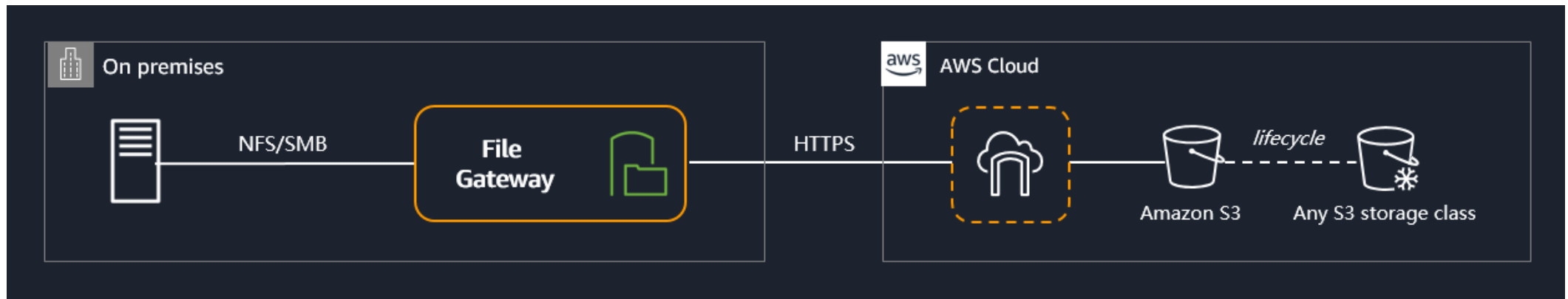# Storage Gateway

Storage Gateway

- Bridge between on-premise data storage and cloud-based storage

- Use for disaster recovery, backup & recovery

- Type of Storage Gateway

  ➢ File Gateway

  ➢ Volume Gateway

  ➢ Tape Gateway

File

Tape

Volumes

EBS

Glacier

S3

File Gateway

- Configure S3 bucket as data store and accessible using NFS and SMB protocol

- Support S3 Standard, IA, One-Zone IA storage class

- Using IAM role to access to Bucket

- Can mount to many servers

Volume Gateway

- Present cloud-based block storage volumes for on-premises application

- Backup volumes as EBS snapshot

- Offer 2 modes

  - Cached Volumes: Entire data set is on S3, retain a copy of frequently access data in local cache.

  - Stored Volumes: Entire data set is on-premise, back up point-in-time snapshots to S3

Tape Gateway

- Reduce the burden and cost of tape back up using Physical Tape Devices

- Backup data as virtual tape to AWS

- Virtual Tape Library (VTL) is backed by S3 and Glacier
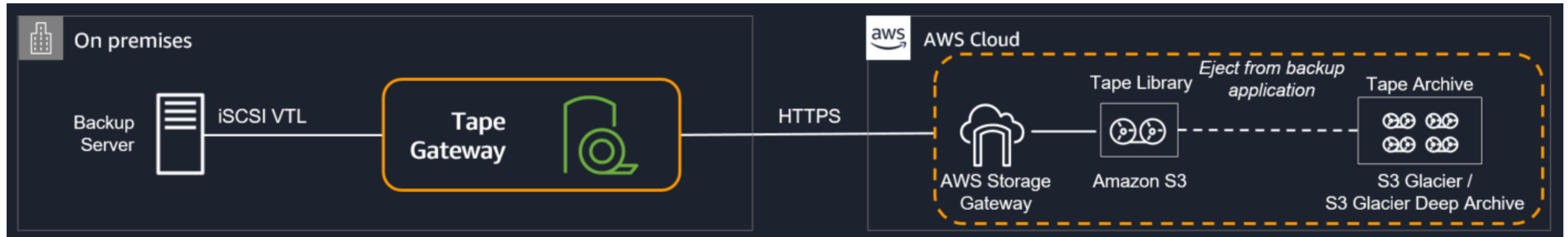
Exam Tips

- **File Gateway:** for flat files, directly store in S3

- **Volume Gateway**

  - **Cached Volumes:** Entire data set is stored on S3 and frequently accessed data store in cache on-premise

  - **Store Volumes:** Entire data set is stored in on-premise site, aschynorous back up to S3

- **Tape Gateway:** VTL tape solution backed by S3 and Glacier