

02/

Storage Services



Storage services overview



Amazon Simple
Storage Service
(Amazon S3)



Amazon Elastic
Block Store
(Amazon EBS)



Amazon Elastic
File System
(Amazon EFS)

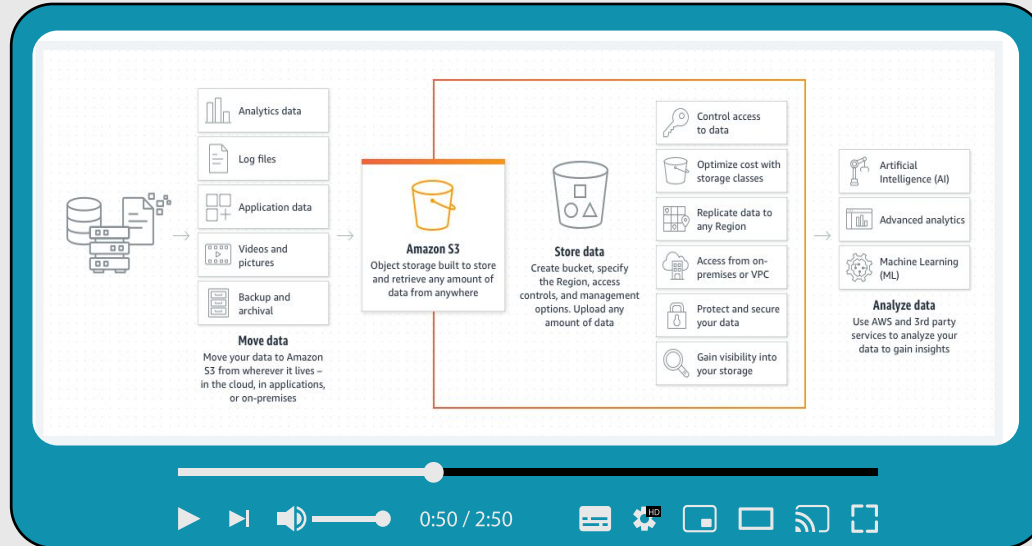


AWS Backup



AWS Snowball

What is Amazon Simple Storage Service (Amazon S3)



Amazon Simple Storage Service (Amazon S3)

Object storage built to retrieve any amount of data from anywhere

Amazon S3 Storage Classes

Short-term storage



General
purpose
Amazon S3
Standard (S3
Standard)



Unknown or
changing access
Amazon S3
Intelligent-Tiering
(S3
Intelligent-Tiering)



Infrequent
access
Amazon S3
Standard-Infre
quent Access
(S3
Standard-IA)

Long-term, secure, durable storage
classes for data archiving at the
lowest cost and milliseconds access



Amazon S3
Glacier



Amazon S3
Glacier Deep
Archive

Use Case

Build a data lake

Run big data analytics, artificial intelligence (AI), machine learning (ML), and high performance computing (HPC) applications to unlock data insights.

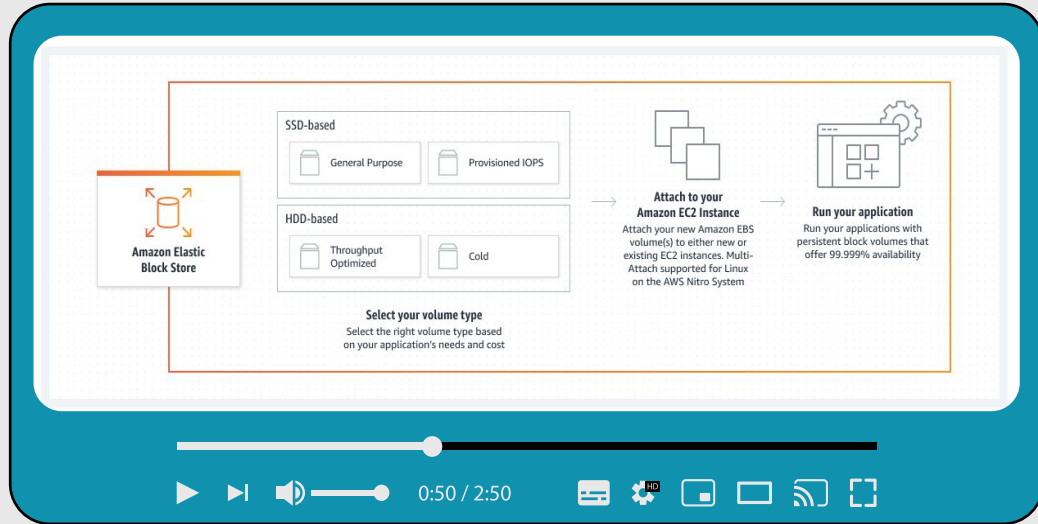
Back up and restore critical data

Meet Recovery Time Objectives (RTO), Recovery Point Objectives (RPO), and compliance requirements with S3's robust replication features.

Archive data at the lowest cost

Move data archives to the Amazon S3 Glacier storage classes to lower costs, eliminate operational complexities, and gain new insights.

What is Amazon Elastic Block Store (Amazon EBS)



**Amazon Elastic Block Store
(Amazon EBS)**

**Easy to use, high performance
block storage at any scale**

Use Case

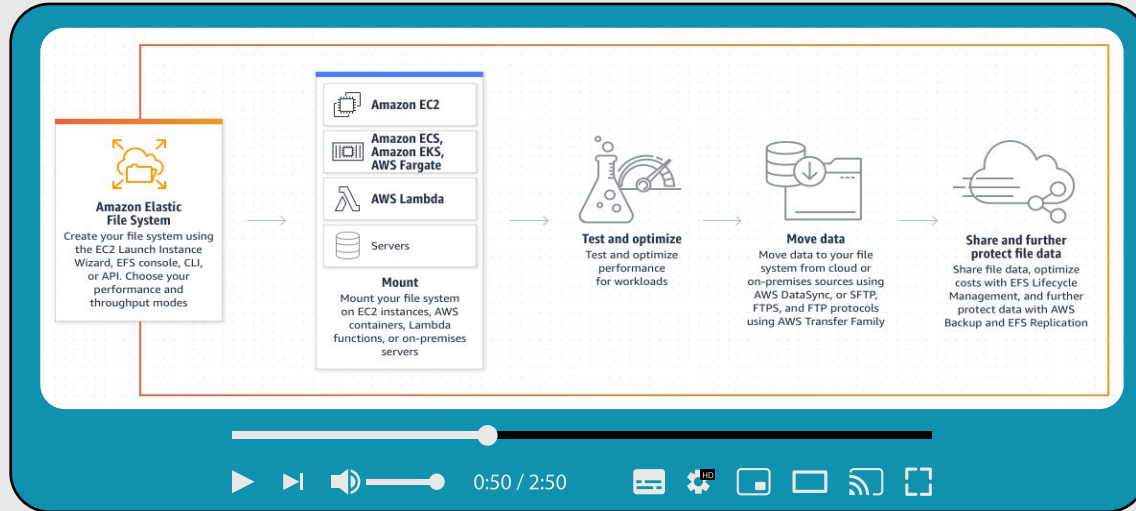
Run relational or NoSQL databases

Deploy and scale your choice of databases, including SAP HANA, Oracle, Microsoft SQL Server, MySQL, Cassandra, and MongoDB.

Right-size your big data analytics engines

Easily resize clusters for big data analytics engines, such as Hadoop and Spark, and freely detach and reattach volumes.

What is Amazon Elastic File System (Amazon EFS)



**Amazon Elastic File System
(Amazon EFS)**

**Simple, serverless,
set-and-forget,
elastic file system**

Use Case

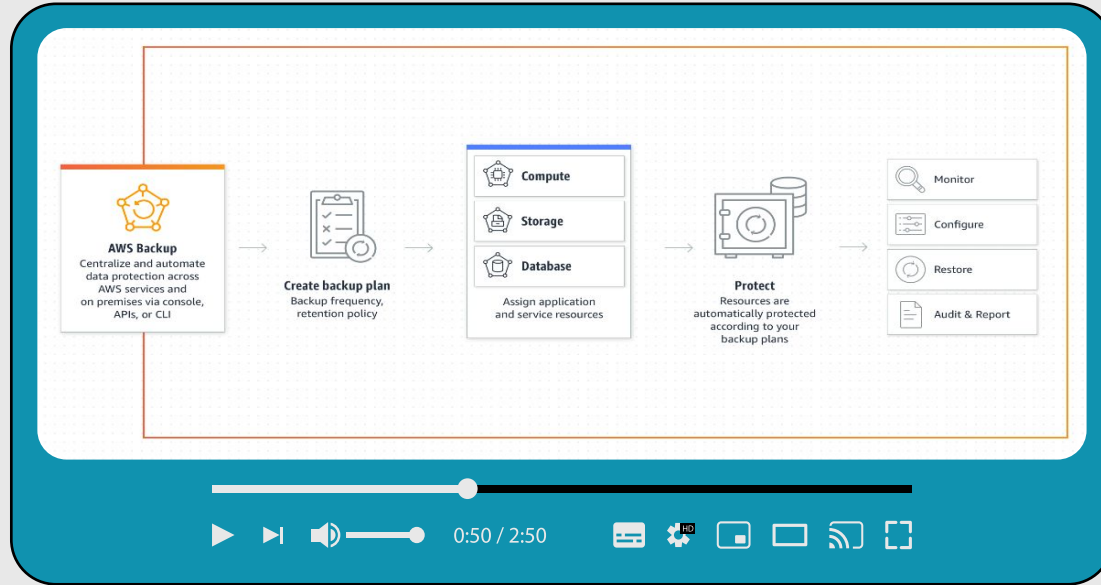
Modernize application development

Persist and share data from your AWS containers and serverless applications with zero management required.

Accelerate data science

Easy to use and scale, Amazon EFS offers the performance and consistency needed for machine learning (ML) and big data analytics workloads.

What is Amazon Backup



AWS Backup

Centrally manage and
automate backups
across AWS services



FutureSkill

Use Case

Cloud-native backup

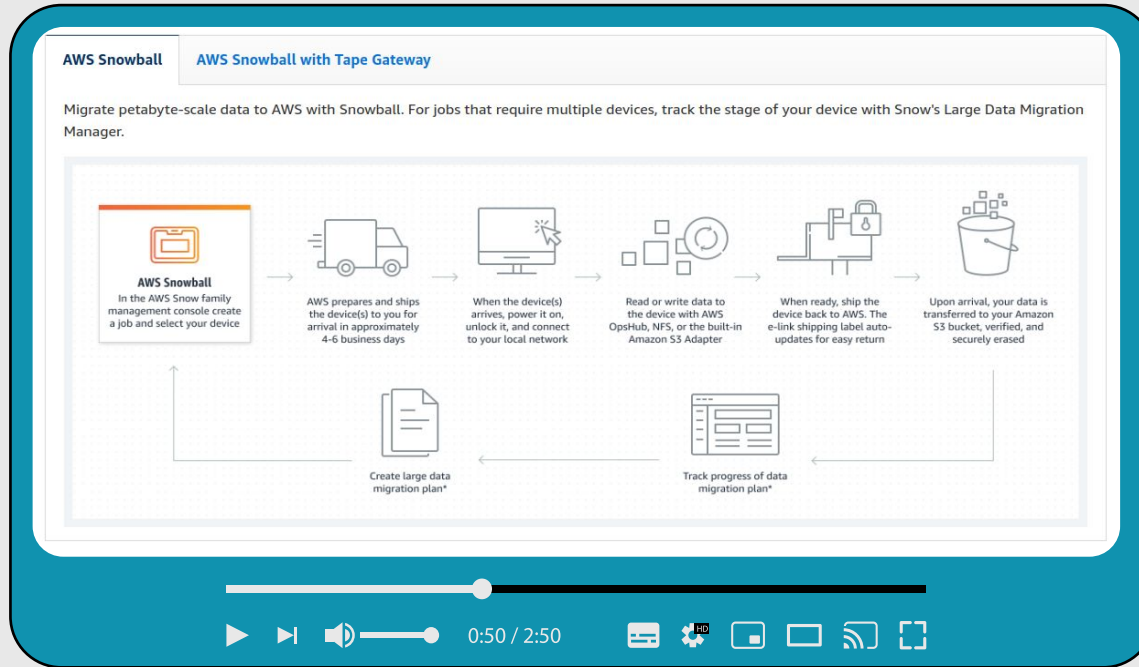
AWS Backup provides a centralized console to automate and manage backups across AWS services. AWS Backup supports Amazon S3, Amazon EBS, Amazon RDS including Amazon Aurora, Amazon DynamoDB, Amazon Neptune, Amazon DocumentDB, Amazon EFS, Amazon FSx for NetApp ONTAP, FSx for Lustre and FSx for Windows File Server, and FSx for OpenZFS, Amazon EC2, and AWS Storage Gateway. Using AWS Backup, you can back up key data stores, such as your buckets, volumes, databases, and file systems.

Hybrid data protection

AWS Backup centralizes data protection management and compliance for your applications running in hybrid environments. Using AWS Backup, you can protect VMware workloads running on premises and in VMware CloudTM on AWS, and data stored on AWS Storage Gateway volumes.



What is Amazon Snowball



AWS Snowball

Accelerate moving offline data or remote storage to the cloud

Use Case

Migrate data at petabyte-scale

Move databases, backups, archives, healthcare records, analytics datasets, IoT sensor data and media content to the cloud – especially when network conditions are limited.

Process and analyze data locally

Run Amazon Machine Images (AMIs) within Amazon EC2 and deploy AWS Lambda code on Snowball Edge devices with machine learning (ML) or other applications.





Mini Workshop

Store data with AWS S3

Thank You

