



Cloud Storage Overview

At the core of the lesson

You will learn how to do the following:

- Define cloud storage, how it works, and its uses.
- Identify Amazon Web Services (AWS) Cloud storage services and categories.



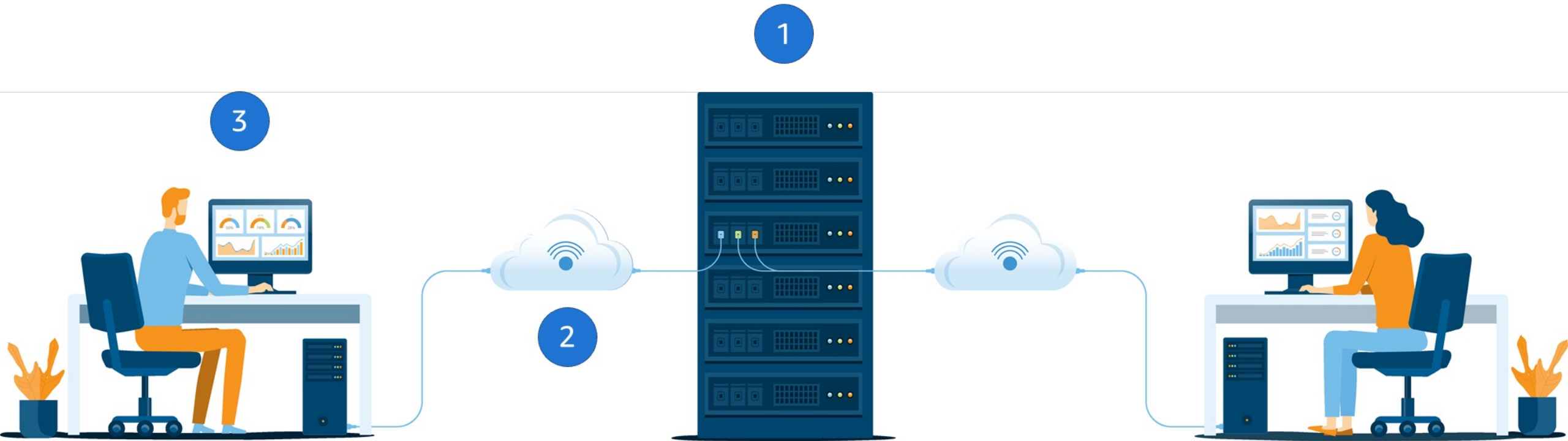
Cloud storage

What is cloud storage?

Cloud storage is a service that stores data on the internet through a cloud computing provider that manages and operates data storage as a service.



How cloud storage works



Cloud storage formats



Object

Each piece of data is an object with a unique identifier.



File

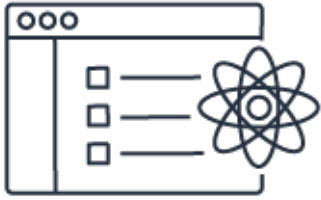
Data is organized in a hierarchical format with files and folders.



Block

Each piece of data is broken down into blocks with unique identifiers.

Use cases for cloud storage



Big data analytics



Data warehouses



Internet of Things
(IoT)



Databases



Backup and archive



AWS Cloud storage

AWS storage service categories



Storage

The AWS storage services can be grouped into the following general categories:

- Object storage
- File storage
- Block storage
- Hybrid storage

Object, file, and block storage on AWS



Amazon Simple Storage Service (Amazon S3)



Amazon Simple Storage Service Glacier (Amazon S3 Glacier)



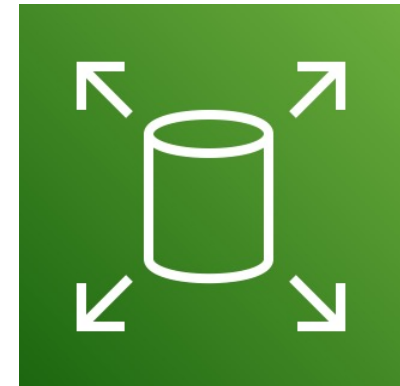
Amazon File Cache



Amazon Elastic File System (Amazon EFS)



Amazon FSx



Amazon Elastic Block Store (Amazon EBS)

Hybrid cloud storage and edge computing on AWS



AWS Storage Gateway



AWS Snow Family

AWS Cloud storage scenarios

If You Need:	Consider Using:
<ul style="list-style-type: none">• A scalable, durable platform that makes data accessible from any internet location• Storage for user-generated content, active archive, serverless computing, big data storage, or backup and recovery	Amazon S3
A secure, durable, and extremely low-cost cloud storage service for data archiving and long-term backup	Amazon Simple Storage Service Glacier
A simple, scalable network file system for Linux workloads that uses both AWS Cloud services and on-premises resources	Amazon EFS
A service that provides file systems for various workloads, such as storage for Windows applications, machine learning, electronic design automation, and high-performance computing	Amazon FSx
<ul style="list-style-type: none">• Persistent block storage for Amazon Elastic Compute Cloud (Amazon EC2)• Storage that works well for databases and applications	Amazon EBS
<ul style="list-style-type: none">• Hybrid storage that augments your on-premises environment with AWS Cloud storage• Hybrid storage for disaster recovery (DR), price tiering, or migration	Amazon Storage Gateway

Checkpoint questions

1. What are the three components of cloud storage?
2. A solutions architect is looking for a low-cost, long-term data storage option for data archiving and backups. Which AWS storage service best meets those requirements?
3. Which AWS storage services uses block storage?

Key ideas



- Cloud storage is a critical component of cloud computing. It holds the information that applications use.
- AWS offers a range of cloud storage services to support various needs.
- AWS provides services that support object, block, file, and hybrid storage.



Thank you

Corrections, feedback, or other questions?

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