

# Designing and Implementing Storage on AWS

## Course Benefits & Agenda



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## Overview

In this course, students will learn where, how, and when to take advantage of these different service offerings. Students will learn which services are the appropriate ones to consider when looking to solve their data storage challenges. They will learn how to best evaluate their options in selecting the appropriate AWS storage service to meet their use case and business requirements. Learners will also gain a better understanding of how to implement, manage, and protect their data in the cloud. Through a series of hands-on exercises that demonstrate the ease and power of AWS platform, they will learn how to quickly provision powerful storage solutions in minutes.

## Course Benefits

This course teaches you how to:

- Describe the benefits of the core AWS storage services and identify some of their primary use cases
- Select and design an appropriate storage solution according to application and business requirements
- Configure storage resources to work with the broad array of AWS service offerings • Select the right method to move data between on-premises workloads and the AWS Cloud
- Design storage solutions to protect data at rest and in transit

- Set up monitoring and observability for Cloud storage to gain insight into access patterns, utilization, and efficiency
- Design and optimize storage solutions according to cost, scalability, and performance requirements

## Agenda

### Day 1

Module	Topic
Welcome	
Module 1	Introduction to Cloud Storage
Module 2	Designing Object Storage Solutions in AWS
Lab 1	Exploring S3 Access Control and S3 Object Lambda
Module 3	Implementing Object Storage solutions with S3
Lab 2	Multi-Part Uploads, Batch Operations, and Cross-Region Replication with Amazon S3
Module 4	Designing Block storage solutions in AWS

### Day 2

Module	Topic
Module 5	Implementing Block Storage Solutions with EBS
Lab 3	Managing EBS Volumes: Capacity, Performance, and Data Protection
Module 6	File Storage and Amazon EFS
Lab 4	Using Amazon EFS with AWS Lambda and Amazon ECS
Module 7	File Storage Solutions with Amazon FSx
Lab 5	Working with FSx for NetApp ONTAP and FSx for OpenZFS

## Day 3

Module	Topic
Module 8	Hybrid and Edge Cloud Storage
Module 9	Moving data to AWS
Lab 6	Moving Data with Storage Gateway and DataSync
Module 10	Backup and Disaster Recovery with AWS
Lab 7	Creating and Restoring Backups with AWS Backup
Module 11	Monitoring, Automating, and Optimizing your AWS Storage
Lab 8	Storage Monitoring, Automation, and Optimization