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Amazon FSx Training

3 days (21 hours)

Overview

Amazon FSx is a managed file storage service that simplifies the deployment of high-performance, secure file systems on AWS. With Windows File Server, NetApp ONTAP, OpenZFS, and Lustre, Amazon FSx meets a variety of needs for file sharing, performance, and resilience.

Our Amazon FSx training will help you master the essential concepts for designing, deploying, and managing a cloud file service tailored to your business needs.

You'll learn how to choose the right file system, configure data access, and manage performance, high availability, backups, and protection mechanisms.

Upon completion of the training, you'll be able to integrate Amazon FSx into an AWS architecture, optimize day-to-day operations, and secure shared data in a production environment.

This training also covers best practices for monitoring, automation, and operations to ensure the reliability of your deployments and facilitate the scaling of cloud usage.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the use cases and positioning of Amazon FSx within the AWS ecosystem.
- Select the appropriate file system from among Windows File Server, ONTAP, OpenZFS, and Lustre.

- Deploy and configure an Amazon FSx file system in accordance with access and security requirements.
- Manage performance, backups, availability, and day-to-day operations.
- Apply best practices for integration, monitoring, and data protection.
- Prepare for production-ready use with reliable and sustainable operations.

Target Audience

- Cloud Engineer
- Cloud Architect
- System Administrator
- Infrastructure Engineer
- DevOps

Prerequisites

- Basic knowledge of AWS and its core services.
- Understanding of networking, security, and shared storage concepts.
- Previous experience in Linux or Windows Server system administration.
- Basic knowledge of file systems, shares, and access management.
- Familiarity with cloud operations and automation principles.

Technical Prerequisites

- A recent computer with sufficient memory for web consoles and monitoring tools.
- A stable Wi-Fi or Ethernet connection to follow along with the online exercises.
- An up-to-date web browser to access the AWS Management Console.
- A microphone and headset if attending the session remotely.
- An AWS account available for hands-on exercises, depending on the training format.

Amazon FSx Training Agenda

[Day 1 - Morning]

File Storage Fundamentals

- Understand Amazon FSx’s role within the AWS storage portfolio.
- Identify the benefits of a managed file service compared to a self-managed solution.
- Compare the use cases for Windows File Server, ONTAP, OpenZFS, and Lustre.
- Link business needs to performance, sharing, and resilience criteria.
- Describe the common components of an FSx deployment and the basics of governance.
- Hands-on workshop: Analyze several use cases and match each requirement to the appropriate FSx file system.

[Day 1 - Afternoon]

Choosing the Right File System

- Examine the functional features of FSx for Windows File Server.
- Understand the benefits of FSx for NetApp ONTAP for hybrid environments.
- Discover the benefits of FSx for OpenZFS for Linux and application workloads.
- Identify the specific features of FSx for Lustre for compute-intensive workloads.
- Evaluate selection criteria based on protocols, performance, and operations.
- Hands-on workshop: Build an FSx selection matrix based on technical and business constraints.

[Day 2 - Morning]

Deployment and Configuration

- Prepare the AWS environment and the components required for provisioning.
- Configure a file system, taking into account the VPC, subnets, and network access.
- Define capacity, performance, and availability parameters.
- Organize access points and associated resources based on the selected FSx type.
- Apply basic best practices for naming, architecture, and separation of duties.
- Hands-on workshop: Deploy an FSx file system in a test environment and verify its connectivity.

[Day 2 - Afternoon]

Access, Security, and Integration

- Set up authentication and authorization mechanisms appropriate for the service.
- Understand the access protocols used depending on the type of file system.
- Manage network rules, security groups, and exposure controls.
- Integrate FSx into an application architecture with Linux, Windows, or mixed clients.
- Apply encryption and data protection principles.
- Hands-on workshop: Secure an FSx share and verify access from multiple workstations.

[Day 3 - Morning]

Operation, Backup, and Performance

- Monitor the health status and key metrics of an FSx file system.
- Understand the available backup and restore mechanisms.
- Analyze optimization strategies related to throughput, latency, and sizing.
- Manage routine administrative tasks and configuration changes.

- Implement a reliable operational strategy to minimize the risk of service outages.
- Hands-on workshop: Using monitoring metrics to diagnose a performance bottleneck.

[Day 3 - Afternoon] Scaling and

Best Practices

- Structure a production-ready FSx architecture.
- Automate recurring tasks and standardize deployments.
- Define a backup, recovery, and business continuity strategy tailored to specific use cases.
- Leverage operational feedback to improve the platform’s robustness.
- Prepare architectural decisions for hybrid or multi-team environments.
- Hands-on workshop: Design a target FSx architecture, including technical choices, security, and operations.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Pre-training Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.