NetApp

Learning Services Academy

ASA Fundamentals

Delivery: Web-based training (WBT) Duration: 60 minutes

Course Description

Discover the fundamentals of NetApp® ASA technology. Gain comprehensive knowledge of ASA architecture and management. Explore the key concepts, best practices, and overall benefits of implementing ASA solutions.

Role

Systems administrator and technical support engineer

Prerequisites

- Fundamental knowledge of SAN
- *ONTAP SAN Fundamentals*
- *Introduction to ASA*

Objectives

This course focuses on enabling you to do the following:

- Gain a comprehensive understanding of ASA system hardware and software architecture.
- Identify the performance, data protection, and security features of ASA systems.
- Delve into the management and automation capabilities of ASA systems.
- Analyze the advantages of ASA storage availability zones over ONTAP aggregates.
- Recognize the role of the consistency groups and automatic rebalancing for optimized performance.

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Course Content

This course includes the following modules and topics:

Modules	Topics
Module 1: Introduction to ASA systems	• Introduction to ASA systems • ASA models and specifications • Use cases and workloads • Benefits
Module 2: Features and capabilities	• Performance • Data protection and security • Scalability and flexibility • Efficiency and cost-effectiveness • Management and automation
Module 3: ASA system architecture	• Architecture and components • ONTAP data management software • ASA system object model • Comparing ONTAP personalities • Multipathing I/O driver • Asymmetric logical unit access (ALUA) • High availability in ASA systems • Failover in NetApp ONTAP SAN systems • Path selection during HA failover • Path selection during port or switch failure
Module 4: Provisioning block storage on ASA systems	• Storage availability zone in ASA systems versus aggregates in unified ONTAP based systems • Storage units • Consistency groups • Role of consistency groups in DataOps and protection • Hierarchical consistency groups for complex data structures • Automatic rebalancing of storage units

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