Data ONTAP SAN Administration (NA- SANADM)

Course Description

In this course, you learn to configure NetApp® ONTAP® 9 data management software for a SAN environment.

The course provides information about block-level protocols, including FC, FCoE, iSCSI, and NVMe, on Microsoft Windows Server and Linux host operating systems. Management of SAN storage provisioning, protocols, hosts, availability and data protection, and using best practices are also discussed.

An introduction to NVMe over Fibre Channel (NVMe/FC) is provided. This course focuses on ONTAP 9 functionality and includes lecture and a hands-on exercise environment.

Course Duration:

2 days.

Prerequisites:

- A working knowledge of ONTAP 9 software and storage area networking
- Completion of the following courses:
    - ONTAP Cluster Fundamentals
    - ONTAP SAN Fundamentals
    - ONTAP SAN Implementation

Objectives:

This course focuses on enabling you to do the following:

- Summarize SAN architecture
- Demonstrate SAN configuration and LUN provisioning
- Use iSCSI, FC, FCoE, and NVMe over Fibre Channel (NVMe/FC) features and
- recommendations
- Manage ONTAP availability strategies and data protection for LUNs
- Illustrate management concepts for SAN environments
- Explore Foreign LUN Import

Course Outline:

- NetApp ONTAP SAN fundamentals
    - Introduction to SAN
    - SAN scalability and maximums
- NetApp ONTAP SAN resource provisioning
    - Volume and LUN provisioning
- ONTAP storage virtual machine administration
    - Storage virtual machine creation workflow
    - LUN creation
    - NVMe namespaces and subsystems
    - iSCSI, FC, FCoE, and NVMe/FC recommended guidelines
    - iSCSI security and networking
- SAN availability and data protection
    - High availability and host multipathing
    - Data protection in SAN environments
- Management of NetApp ONTAP SAN environments
    - LUN mobility
    - Volume and LUN reconfiguration
    - SAN performance recommendations
    - Appendix A: SAN migration with Foreign LUN Import
    - Foreign LUN Import overview

Who Should Attend:

SAN storage administrators who use ONTAP based storage systems