



ONTAP SAN Implementation 9.14 (NA-SANIMP)

Course Description

Learn how to install NetApp® ONTAP® 9 data management software for a SAN environment. Explore block-level protocols on Microsoft Windows Server and Linux host operating systems, including FC, FCoE, NVMe, and iSCSI. Apply your knowledge through hands-on guided exercises in a lab environment and through an exercise workbook that serves as an on-the-job reference guide

Course Duration

3 days.

Prerequisites

- Certification as a NetApp Data Management Administrator
- Working knowledge of ONTAP 9 software and storage area networking
- ONTAP Cluster Fundamentals
- ONTAP SAN Fundamentals
- ONTAP Cluster Administration

Objectives

This course focuses on enabling you to do the following:

- Discuss SAN fundamentals for ONTAP software
- Explain ONTAP SAN resource provisioning
- Describe iSCSI, FC, and FCoE configuration in ONTAP software
- Explain the NVMe over Fabrics (NVMe-oF) implementation in ONTAP software
- Discuss host configuration requirements
- Explain Windows and Linux configuration for iSCSI
- Describe Windows and Linux configuration for FC

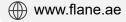
Course Outlines

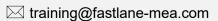
Module 0: Introduction

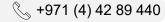
- Classroom logistics
- Course prerequisites
- Course agenda

Module 1: ONTAP SAN fundamentals

- Implementing iSCSI, FCP, FCoE, and NVMe-oF SAN in ONTAP software
- SAN architecture
- Interoperability Matrix Tool
- SAN scalability and maximums









Module 2: ONTAP SAN resource provisioning

- IP SAN configurations
- FC SAN configurations
- LUN provisioning

Module 3: ONTAP iSCSI configuration concepts

- iSCSI configuration recommendations
- iSCSI feature overview
- iSCSI configuration workflow

Module 4: ONTAP FC configuration concepts

- FC configuration recommendations
- FC and FCoE zoning
- Cisco switches
- Brocade switches

Module 5: NVMe-oF configuration

- NVMe
- NVMe-oF
- NVMe integration into ONTAP software

Module 6: Host integration

- Host considerations
- Windows hosts
- Linux and UNIX hosts
- LUN offset

Module 7: Microsoft Windows IP SAN connectivity

- Configuring a Windows host for iSCSI
- iSCSI configuration

Module 8: Linux IP SAN connectivity

- Linux iSCSI configuration
- Linux iSCSI implementation

Module 9: Windows FC SAN connectivity

- Configuring a Windows host for FC
- Identifying the WWNN and WWPN on a Windows host
- Implementing and verifying multipath FC connectivity between a Wndows host and ONTAP software

Module 10: Linux FC SAN connectivity

- Configuring a Linux host for FC
- Identifying WWNPs on a Linux host
- Implementing and verifying multipath FC connectivity between a Linux host and ONTAP software

Who Should Attend

Administrator, engineer, architect