



ONTAP SAN Implementation (SANIMP)

ID SANIMP Price 2,700.— €(excl. tax) Duration 3 days

Course Overview

Learn how to install NetApp ONTAP9 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.

Who should attend

Administrator, Engineer, Architect

This course is part of the following Certifications

NetApp Certified Implementation Engineer – SAN Specialist, ONTAP (NCIE SAN CDOT)

Prerequisites

- Certification as a NetApp Data Management Administrator
- Working knowledge of ONTAP 9 software and storage area networking
- ONTAP Cluster Fundamentals (WBT)
- ONTAP SAN Fundamentals
- Completion of the following:
 - Either [ONTAP Cluster Administration \(ONTAP9ADM\)](#) or [ONTAP Cluster Administration and Data Protection Bundle \(CDOTDP9\)](#)

Course 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

Detailed Course Outline

Module 1: ONTAP SAN Fundamentals

- Implementing iSCSI, FCP, and FCoE and NVMe-oF SAN in ONTAP Software
- SAN Architecture
- IMT (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: High-Performance and Scalable Network Storage Using NVMe over Fabrics

- NVMe
- NVMe-oF
- NVMe Integration into ONTAP

Module 6: Host Integration



- Host Considerations
- Windows Hosts
- Linux and UNIX Hosts
- LUN Offset

Module 7: 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

- Configure a Windows Host for FC
- Identify the WWNN and WWPN on a Windows Host
- Implement and Verify Multipath FC Connectivity between a Windows Host and ONTAP Software

Module 10: Linux FC SAN Connectivity

- Configure a Linux Host for FC
- Identify WWPNS on a Linux Host
- Implement and Verify Multipath FC Connectivity between a Linux Host and ONTAP Software

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