

ONTAP SAN Administration

Course Code: SANADM

Duration: 2 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

In this course, you learn about configuring ONTAP 9 Data Management Software for a SAN environment. The course provides information about block-level protocols, including FC, FCoE, and iSCSI on Microsoft Windows Server, Linux, and VMware ESXi host operating systems. The course also discusses best practices for managing SAN storage provisioning, protocols, hosts, availability, and data protection. An introduction to NVMe over Fabrics (NVMe-oF) is provided.

The course focuses on ONTAP 9.0 functionality and includes lecture and a hands-on exercise environment.

SKILLS COVERED

This course focuses on enabling you to do the following:

- Discuss SAN architecture
- Describe SAN configuration and LUN provisioning
- Discuss iSCSI features and recommendations
- Discuss FC and FCoE features and recommendations
- Discuss ONTAP availability strategies and data protection for LUNs
- Describe SAN performance considerations and SAN-specific manageability features
- Describe NVMe architecture and explain NVMe integration into ONTAP software
- Describe Foreign LUN Import

WHO SHOULD ATTEND?

SAN storage administrators who use ONTAP based storage systems

PRE-REQUISITES

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

MODULES

Module 1: NetApp ONTAP SAN Fundamentals

- Introduction to SAN
- SAN scalability and maximums

Module 2: NetApp ONTAP SAN resource provisioning

- Volume and LUN provisioning

Module 3: 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

Module 4: SAN availability and data protection

- High availability and host multipathing
- Data protection in SAN environments

Module 5: 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