

ONTAP SAN Administration



Delivery: Instructor-led training (ILT)

Duration: 2 days

Course Description

Explore block-level protocols, including FC, FCoE, iSCSI, NVMe over FCoE (NVMe/FC), and NVMe over TCP (NVMe/TCP), on Microsoft Windows Server, Linux, and VMware ESXi host operating systems. Examine how to administer, configure, and manage NetApp® ONTAP® data management software for a SAN environment. This course focuses on ONTAP 9 functionality and includes lectures and hands-on exercises.

Role

Administrator, engineer, and architect

Prerequisites

- Working knowledge of ONTAP 9 software and SAN
- *ONTAP Cluster Fundamentals*
- *ONTAP SAN Fundamentals*
- *ONTAP Cluster Administration*

Objectives

This course focuses on enabling you to do the following:

- Illustrate SAN configuration and LUN provisioning
- Explain ONTAP block protocol features and recommendations
- Demonstrate volume and LUN space efficiency configurations in a SAN environment
- Discover ONTAP availability strategies and data protection for LUNs
- Outline SAN performance considerations
- Perform SAN-specific manageability configurations
- Describe Foreign LUN Import and explore use cases

Course Content

This course includes the following modules, lessons, and exercises:

Module	Lessons	Exercises
Module 1: NetApp ONTAP SAN fundamentals review	<ul style="list-style-type: none">• Introduction to SAN• SAN scalability and maximums	Configuring initial settings
Module 2: NetApp ONTAP SAN resource provisioning	<ul style="list-style-type: none">• Volume and LUN provisioning• Additional ONTAP CLI considerations	
Module 3: NetApp ONTAP storage VM administration	<ul style="list-style-type: none">• Storage VM creation workflow• LUN creation• NVMe namespaces and subsystems• iSCSI, FC, NVMe/FC, and NVMe/TCP recommended guidelines• iSCSI security and networking	<ul style="list-style-type: none">• Creating LUNs• Managing iSCSI configurations• Managing FC configurations• Managing NVMe/TCP configurations
Module 4: SAN availability and data protection	<ul style="list-style-type: none">• High availability and host multipathing• Data protection in SAN environments	Examining multipathing
Module 5: Management of NetApp ONTAP SAN environments	<ul style="list-style-type: none">• LUN mobility• Volume and LUN reconfiguration• SAN performance recommendations	Managing an ONTAP SAN environment
Appendix: SAN migration with Foreign LUN Import		

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