

ONTAP SAN Implementation & Administration

Duration: 2 Days Course Code: NEP_OT-SANIA

Overview:

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

Learn how to implement and administer NetApp ONTAP SAN solutions by examining SAN protocols and architecture.

Learn about ONTAP capabilities for iSCSI, FCP and NVMe over IP and FC fabric.

Target Audience:

- Administrator
-

Objectives:

- Define and describe SAN environments that use iSCSI, FC, FCoE, and NVMe protocols
 - Explain ONTAP block protocol features and recommendations
 - Examine FC switch fabric, LUN masking, and zoning
 - Configure Microsoft Windows Server, Linux, and ONTAP based SAN storage systems for IP and FC connectivity
 - Illustrate SAN configuration and provisioning
 - Demonstrate block storage space efficiency configurations in a SAN environment
 - Discover ONTAP availability strategies and data protection for LUNs and namespaces
 - Examine SAN performance considerations
 - Perform SAN-specific manageability configurations
-

Prerequisites:

These 2 elearning options are available free of charge via NetApp Learning Services:

- Introduction to ASA
 - ONTAP ASA Fundamentals
-

Content:

Module 1: ONTAP SAN Configuration overview	Exercises	Lessons
Lessons	<ul style="list-style-type: none">• Create NVMe namespaces	<ul style="list-style-type: none">• Configure a Windows host for FC
<ul style="list-style-type: none">• IP SAN configuration• FC SAN configuration• LUN provisioning	Module 5:NetApp ONTAP SAN resource provisioning	<ul style="list-style-type: none">• Identify the WWNN and WWPN on a Windows host
Exercises	Lessons	<ul style="list-style-type: none">• Implement and verify multipath FC connectivity on a Windows host• Configure a Linux host for FC• Identify WWPNS on a Linux host
<ul style="list-style-type: none">• Explore System Manager• Create an SVM	<ul style="list-style-type: none">• Volume and LUN provisioning• Additional ONTAP CLI considerations	<ul style="list-style-type: none">• Implement and verify multipath FC connectivity on a Linux host
Module 2: ONTAP iSCSI configuration concepts	Exercises	Exercises
Lessons	<ul style="list-style-type: none">• Examine volumes and LUNs from ONTAP CLI	<ul style="list-style-type: none">• Configure a Brocade switch for a Windows FC environment• Configure to an FC LUN from Windows
<ul style="list-style-type: none">• iSCSI configuration recommendations• iSCSI feature overview• iSCSI configuration workflow	Module 6:Host integration	Module 9:SAN availability and data protection
Exercises	Lessons	Lessons
<ul style="list-style-type: none">• Create iSCSI LUNs	<ul style="list-style-type: none">• Host considerations• Windows hosts• Linux and UNIX hosts• LUN offset	<ul style="list-style-type: none">• High availability and host multipathing• Data protection in SAN environments
Module 3: ONTAP FC configuration concepts	Exercises	Exercises
Lessons	<ul style="list-style-type: none">• Install Host Utilities for Windows• Install Host Utilities for Linux	<ul style="list-style-type: none">• Examine multipathing behavior
<ul style="list-style-type: none">• FC configuration recommendations• FC and FCoE zoning• Cisco switches• Brocade switches	Module 7:IP SAN connectivity	Module 10:Management of NetApp ONTAP SAN environments
	Lessons	Lessons
	<ul style="list-style-type: none">• Windows iSCSI configuration• Windows iSCSI implementation	<ul style="list-style-type: none">• LUN mobility• Volume and LUN reconfiguration

Exercises

- Connect to a Brocade switch

- Perform discovery

- Create FC LUNs

Module 4: NVMe-oF configuration

Lessons

- NVMe

- NVMe-oF

- NVMe integration into ONTAP software

- Linux iSCSI configuration

- Linux iSCSI implementation

Exercises

- Configure Windows for iSCSI SAN

- Configure NetApp ONTAP software for Windows iSCSI LUNs

- Discover iSCSI LUNs from Windows

- Configure Linux for NVMe/TCP

- Discover an NVMe namespace from Linux

Module 8: FC SAN connectivity

- SAN performance recommendations

Exercises

- Move a LUN

- Resize a LUN and extend a volume

Appendix A: ONTAP SAN fundamentals

Lessons

- Implementing iSCSI, FCP, and NVMe in ONTAP software

- SAN architecture

- Interoperability Matrix tool

- SAN scalability and maximums

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/