ONTAP SAN Implementation & Administration

Cursusduur: 2 Dagen Cursuscode: NEP_OT-SANIA

Beschrijving:

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.

Doelgroep:

• Administrators

Doelstelling:

- • 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

Vereiste kennis en vaardigheden:

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

• Introduction to ASA

• ONTAP ASA Fundamentals

Cursusinhoud:

Module 1: ONTAP SAN Configuration overview

Lessons

• IP SAN configuration

• FC SAN configuration

• LUN provisioning

Exercises

• Explore System Manager

• Create an SVM

Module 2: ONTAP iSCSI configuration concepts

Lessons

• iSCSI configuration recommendations

• iSCSI feature overview

• iSCSI configuration workflow

Exercises

• Create iSCSI LUNs

Module 3: ONTAP FC configuration concepts

Lessons

• FC configuration recommendations

• FC and FCoE zoning

• Cisco switches

• Brocade switches

Exercises

• Create NVMe namespaces

Module 5:NetApp ONTAP SAN resource provisioning

Lessons

• Volume and LUN provisioning

• Additional ONTAP CLI considerations

Exercises

• Examine volumes and LUNs from ONTAP CLI

Module 6:Host integration

Lessons

• Host considerations

• Windows hosts

• Linux and UNIX hosts

• LUN offset

Exercises

• Install Host Utilities for Windows

• Install Host Utilities for Linux

Module 7:IP SAN connectivity

Lessons

• Windows iSCSI configuration

• Windows iSCSI implementation

Lessons

• Configure a Windows host for FC

• Identify the WWNN and WWPN on a Windows host

• Implement and verify multipath FC connectivity on a Windows host

• Configure a Linux host for FC

• Identify WWPNs on a Linux host

• Implement and verify multipath FC connectivity on a Linux host

Exercises

• Configure a Brocade switch for a Windows FC environment

• Configure to an FC LUN from Windows

Module 9:SAN availability and data protection

Lessons

• High availability and host multipathing

• Data protection in SAN environments

Exercises

• Examine multipathing behavior

Module 10:Management of NetApp ONTAP SAN environments

Lessons

• 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 NMVe/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

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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