ONTAP NFS Administration

Duration: 1 Day Course Code: NEP_OT-NFS-A

Overview:

Explore and understand the core NFS protocol features and functionality in NetApp® ONTAP ® environments. Learn to use ONTAP management interfaces, configure and set up NFS, and understand NFS access workflows. Perform administration tasks for NFSv3 and NFSv4, enable multiprotocol data access, and use tools to monitor and manage NFS operations. Hands-on exercises are included to reinforce key concepts and practical skills.

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Target Audience:

This class is intended for the following participants:
- Systems Administrators
- Storage Administrators
- Enterprise Architects

Objectives:

- This course focuses on enabling you to do the following:
- Describe the core features and functionality of the NFS protocol
- Identify and use the interfaces for managing ONTAP software
- Set up and configure NFS in the ONTAP environment
- Illustrate the workflow to access NFS files and folders
- Administer and manage both NFSv3 and NFSv4 protocols
- Configure ONTAP software to enable multiprotocol data access
- Monitor and manage NFS operations

Prerequisites:

Participants should have knowledge of:

- ONTAP Cluster Fundamentals
- ONTAP Cluster Administration
- ONTAP NAS Fundamentals
- Working knowledge of UNIX and Linux operating systems of NFS

Testing and Certification

- None

Follow-on-Courses:

- None

Content:

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

Module 1: Getting started

Lessons of Module 1

- Introduction to NFS
- NFS access flow
- Authentication and authorization
- Basic storage VM configuration
- Interfaces for managing ONTAP based systems

Exercises of Module 1

- Configuring a storage VM

Module 2: Log in to Linux client

Lessons of Module 2

- UNIX user concepts
- User authentication mechanisms

Exercises of Module 2

- Logging in to Linux client

Module 3: Mount NFS volume

Lessons of Module 3

- NFS service and networking
- Volumes, qtrees, and namespaces
- Export policies, DNS, and NIS

Exercises of Module 3

- Configuring networking and NFS service
- Creating volumes and junction paths
- Creating export policies and rules for volumes

Module 4: Access files and folders

Lessons of Module 4

- UNIX user authorization concepts

Exercises of Module 4

- Applying permissions and accessing files

Module 5: Advanced NFS configuration

Lessons of Module 5

- Managing NFSv4 configuration
- Centralized name services
- File locking
- AUTH_SYS extended groups
- NFSv4 ACLs

Exercises of Module 5

- Managing NFSv4

Module 6: Multiprotocol configuration

Lessons of Module 6

- Multiprotocol configuration
- Name mapping

Exercises of Module 6

- Configuring a storage VM for multiprotocol access

Appendix: Monitoring and managing NFS

Lessons of Appendix

- Monitor NFS active clients
- Collecting NFS statistics and data

Exercises of Appendix

- Monitoring NFS performance

Further Information:

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

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