

ONTAP Performance Administration

Duration: 3 Days Course Code: NEP_OT-PERFADM

Overview:

Learn the basic administration tasks of a NetApp® ONTAP® 9.14 cluster.
Use the clustershell and NetApp ONTAP System Manager to manage cluster storage and network resources.
Discover how to configure basic data protection and data efficiency functions and common cluster maintenance tasks.

Target Audience:

This course is aimed at: AdministratorArchitectOperator

Objectives:

- Define ONTAP cluster components
 - Describe the role of a storage VM (storage virtual machine, also known as SVM) in the NetApp storage architecture
 - Configure an ONTAP cluster
 - Configure and manage both networking and storage resources
 - Create and configure a storage VM
 - Create, manage, and protect NetApp FlexVol® volumes
 - Implement storage efficiency features
 - Manage ONTAP administrator access and user accounts
 - Manage NetApp storage systems
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Prerequisites:



Testing and Certification



Content:

Module 1: NetApp ONTAP 9 Clusters

- ONTAP deployment options
- The ONTAP cluster
- Storage VMs
- Software-defined storage

Module 2: Cluster Setup

- Supported ONTAP cluster configurations
- Setting up a cluster
- Administration interfaces
- ONTAP licences
- Policies and Schedules

Exercises

Deploying an ONTAP cluster

Exploring ONTAP management UIs

Configuring ONTAP Clusters

Module 3: Physical Storage Management

- Drives, RAID, and aggregates
- Advanced Disk Partitioning
- Flash Cache and Flash Pool features
- FabricPool aggregates

Exercises

Managing physical storage

Exploring RAID-TEC

Module 4: Logical Storage Management

- Flexible volumes

- Deduplication and compression

- Flash efficiency

- Volume and file clones

Exercises

Managing storage efficiency

Managing FlexClone volumes

Module 6: Network Management

- ONTAP network review

- Network ports

- Network traffic segregation

- Logical network interfaces

- Nondisruptive LIF configuration

- Network security

- Routing management

Exercises

Managing physical and logical network resources

Managing virtual network resources

Module 7: NAS Data Access

- Use NAS protocols to access data

- Use the NFS protocol to access data

- Use the SMB protocol to access data

- Use SAN protocols to access data

- Use the iSCSI protocol to access data

- Use the FC protocol to access data

- Use the NVMe protocol to access data

Exercises

Configuring iSCSI in a storage VM

Configuring NVMe in a storage VM

Module 9: Data Protection

- Manage Snapshot copies

- Restore data from a Snapshot copy

- Back up and replicate data

- Compliance

Exercises

Managing Snapshot copies

Module 10: ONTAP Security

- Access control

- Storage encryption

- Ransomware protection

Exercises

Managing ONTAP Administrators

Module 11: Cluster maintenance

• Moving storage resources	• Use the S3 protocol to access data	• Data collection, monitoring, and automation tools
• FlexGroup volumes	Exercises	• Upgrading your cluster
• FlexCache volumes	Monitoring with ONTAP File System Analytics	• Technical support
Exercises	Configuring the NFS protocol in a storage VM	Exercises
Managing data volumes	Configuring the SMB protocol in a storage VM	Installing and configuring Active IQ Config Advisor
Creating a FlexGroup volume	Configuring the S3 protocol in a storage VM	
Module 5: Storage Efficiency	Module 8: SAN Data Access	
• Thin provisioning		

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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