

## ONTAP Cluster Administration

Duration: 3 Days    Course Code: NEP\_OT-CLU-A

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### 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 perform the basic administration tasks of a NetApp® ONTAP® 9.16 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.

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### Target Audience:

Administrator Architect Operator

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### 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:

ONTAP Cluster Fundamentals

ONTAP NAS Fundamentals

(WBT)

ONTAP SAN Fundamentals

(WBT)

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## Content:

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

Module 1: ONTAP 9 clusters

ONTAP deployment options

ONTAP cluster

Storage VMs

Software-defined storage

Module 2: Cluster setup

Supported ONTAP cluster configurations

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Setting up a cluster

Administration interfaces

ONTAP licenses

Policies and schedules

Exercises

Deploying an ONTAP cluster

Exploring ONTAP management UIs

Module 3: Physical storage management

Drives, RAID, and aggregates

Advanced Disk Partitioning

Flash Cache and Flash Pool features

FabricPool aggregates

Exercises

Managing data volumes

Creating a FlexGroup volume

Module 5: Storage efficiency

Thin provisioning

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

Routing management

Exercises

Managing physical and logical network resources

Managing virtual network resources

Configuring the SMB protocol in a storage VM

Configuring the S3 protocol in a storage VM

Module 8: SAN data access

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

Managing physical storage	Module 7: NAS data access	Exercises:
Exercises	Use NAS protocols to access data	Managing ONTAP administrators
Exploring RAID-TEC	Use the NFS protocol to access data	Module 11: Cluster maintenance
Module 4: Logical storage management	Use the SMB protocol to access data	Data collection, monitoring, and automation tools
Flexible volumes	Use the S3 protocol to access data	Upgrading your cluster
Moving storage resources	Exercises	Technical support
FlexGroup volumes	Monitoring with ONTAP File System Analytics	Exercises
FlexCache volumes	Configuring the NFS protocol in a storage VM	Installing and configuring Active IQ Config Advisor

### Further Information:

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

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