

ONTAP Cluster Administration (NA-ONTAPADM)

Course Description

In this course, you learn the basic administration tasks of a NetApp® ONTAP® 9.9 cluster. You use cluster shell and NetApp ONTAP System Manager to manage cluster storage and network resources. The course explains the configuration of basic data protection and data efficiency functions and common cluster maintenance tasks.

Course Duration:

3 days

Prerequisites:

- ONTAP Cluster Fundamentals (web-based training [WBT])
- Introduction to Networking in Clustered Data ONTAP (WBT)
- ONTAP NAS Fundamentals (WBT)
- ONTAP SAN Fundamentals (WBT)

Objectives:

This course focuses on enabling you to do the following:

- Define NetApp 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 storage resources
- Configure and manage networking 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
- Maintain NetApp storage systems

Course Outline:

- **Module 1: NetApp ONTAP 9 clusters**
 - ONTAP deployment options
 - ONTAP clusters
 - Storage VMs
 - Software-defined storage
- **Module 2: Cluster setup**
 - Supported FAS and AFF configurations
 - Setting up a cluster
 - Administration interfaces

- **Module 3: Cluster management**
 - Access control
 - ONTAP licensing
 - Policies and schedules
- **Module 4: Network management**
 - NetApp ONTAP network review
 - Network ports
 - Network traffic segregation
 - LIFs
 - Nondisruptive LIF configuration
 - Routing management
- **Module 5: Physical storage management**
 - Drives, RAID, and aggregates
 - Advanced Disk Partitioning
 - Flash Cache and Flash Pool features
 - FabricPool aggregates
- **Module 6: Logical storage management**
 - Flexible volumes
 - Moving storage resources
- **Module 7: Data access**
 - Using NAS protocols to access data
 - Using SAN protocols to access data
 - Using object protocols to access data
- **Module 8: Data protection**
 - Manage Snapshot copies
 - Restore data from a Snapshot copy
 - Back up and replicate data
 - Compliance
 - Storage encryption
- **Module 9: Storage efficiency**
 - Thin provisioning
 - Deduplication and compression
 - Flash efficiency
 - Logical space reporting
 - Volume and file clones
- **Module 10: Cluster maintenance**
 - Data collection, monitoring, and automation tools
 - Backing up and restoring your cluster configuration
 - Recommended practices for performance
 - Documentation

Who Should Attend:

Systems administrator, cloud architect, operator, data protection specialist, enterprise architect, integration engineer