

ONTAP Cluster Administration (NA-ONTAPADM)

Course Description

Learn how to perform the basic administration tasks of a NetApp® ONTAP® 9.18 cluster. Use 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.

Course Duration:

3 days

Prerequisites:

- ONTAP Cluster Fundamentals (web-based training [WBT]) or ONTAP Cluster Foundation (ILT)
- ONTAP NAS Fundamentals (WBT)
- ONTAP SAN Fundamentals (WBT)

Objectives:

This course focuses on enabling you to do the following:

- 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
- Manage NetApp storage systems

Course Outline:

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

- **Module 3: Physical storage management**
 - Drives, RAID, and aggregates
 - Advanced Disk Partitioning
 - Flash Cache and Flash Pool features
 - FabricPool aggregates
- **Module 4: Logical storage management**
 - Flexible volumes
 - Moving storage resources
 - FlexGroup volumes
 - FlexCache volumes
- **Module 5: Storage efficiency**
 - Thin provisioning
 - Deduplication and compression
 - Flash efficiency
 - Volume and file clones
- **Module 6: Network management**
 - ONTAP network review
 - Network ports
 - Network traffic segregation
 - Logical network interfaces
 - Nondisruptive LIF configuration
- **Module 7: Client access**
 - Use NAS protocols to access data
 - Use the NFS protocol to access data
 - Use the SMB protocol to access data
 - Use the S3 protocol to access data
 - Use SAN protocol access
 - Use SAN protocols to access data
- **Module 8: Data protection**
 - Manage Snapshot copies
 - Restore data from a Snapshot copy
 - Back up and replicate data
- **Module 9: ONTAP security**
 - Administrator Access control
 - Storage encryption
 - Ransomware protection
- **Module 10: Cluster Maintenance**
 - Data collection, monitoring, and automation tools
 - Upgrading your cluster
 - Technical support

Who Should Attend:

Administrator, architect, and operator