

ONTAP Administration and Data Protection Workshop (NA-ONTAP-DP WS)

This course provides a complete guide to managing and protecting data on NetApp® ONTAP® 9.14 clusters. You will learn essential administration tasks, gain hands-on experience with key tools, and explore advanced data protection techniques. This integrated approach ensures a robust understanding of both cluster management and data protection strategies.

Prerequisites

- ONTAP Cluster Fundamentals (web-based training [WBT] or instructor-led training [ILT])
- ONTAP NAS Fundamentals (WBT)
- ONTAP SAN Fundamentals (WBT)
- ONTAP Data Protection Fundamentals

Objectives

This course focuses on enabling you to do the following:

- Define ONTAP cluster components
- Describe the role of Storage VM (SVM)
- Configure and manage an ONTAP cluster
- Create and configure Storage VMs
- Create, manage, and protect NetApp FlexVol® volumes
- Implement storage efficiency features
- Manage ONTAP administrator access and user accounts
- Describe and distinguish ONTAP data protection features
- Administer ONTAP data protection features
- Configure NetApp SnapMirror® relationships
- Demonstrate Storage VM disaster recovery (SVM DR)
- Illustrate NDMP-enabled operations
- Integrate cloud-based data protection solutions

Course Outline

- **Module 1: NetApp 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
 - Routing management
- **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 the S3 protocol to access data
- **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
- **Module 9: Data protection**
 - Manage Snapshot copies
 - Restore data from a Snapshot copy
 - Back up and replicate data
 - Compliance

- **Module 10: ONTAP security**
 - Access control
 - Storage encryption
 - Ransomware protection
- **Module 11: ONTAP security**
 - Data collection, monitoring, and automation tools
 - Upgrading your cluster
 - Technical support
- **Module 12: SnapMirror fundamentals**
 - Introduction to SnapMirror
 - Configuring SnapMirror relationships
 - Guidelines for intercluster networking
 - Cluster and storage VM peering
- **Module 13: SnapMirror for disaster recovery and backup**
 - SnapMirror for FlexVol volumes
 - SnapMirror configuration considerations
 - SnapMirror for disaster recovery
 - SnapMirror for backup
 - Interaction between SnapMirror and other
 - ONTAP features
 - S3 SnapMirror
 - FabricPool
- **Module 14: SnapMirror synchronous for disaster recovery**
 - SnapMirror synchronous
 - Configuring SnapMirror synchronous for disaster recovery
 - Additional SnapMirror synchronous configuration
- **Module 15: SVM DR**
 - Introduction to SVM DR
 - SVM DR requirements and configuration
 - SVM data mobility
- **Module 16: ONTAP backup and archive solutions**
 - NDMP fundamentals
 - NDMP topologies
 - NDMP management
- **Module 17: Cloud-based data protection**
 - SnapMirror cloud
 - Cloud Volumes ONTAP
 - Data protection with NetApp BlueXP

- **Module 18: ONTAP business continuity solutions**
 - Consistency group management
 - Introduction to SnapMirror active sync
 - SnapMirror active sync configuration
 - Failover operations and failure scenarios
 - MetroCluster fundamentals

Who Should Attend

Administrator, architect, and operator.