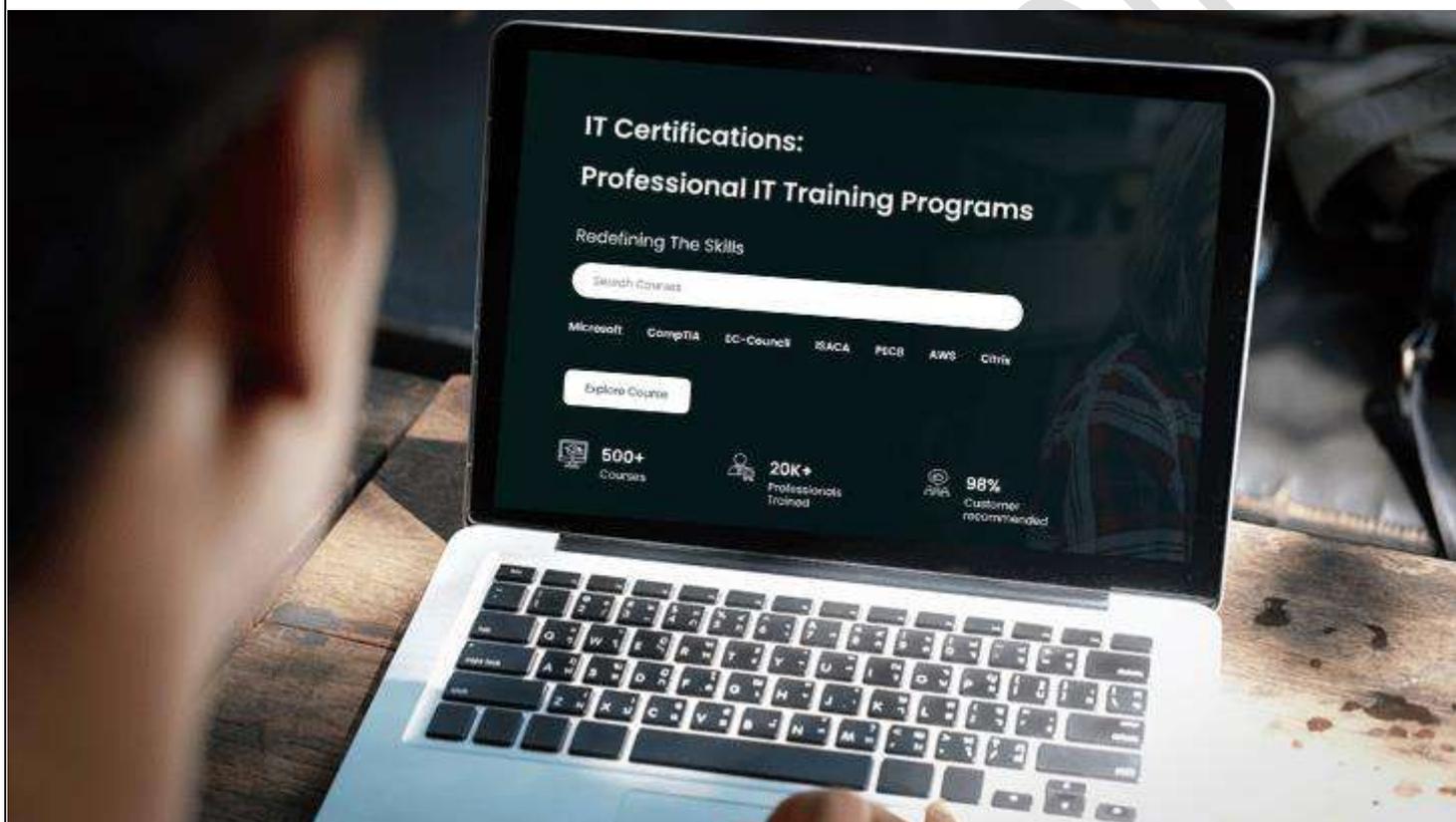




Redefining The Skills



ONTAP CLUSTER ADMINISTRATION AND DATA PROTECTION BUNDLE (CDOTDP9) TRAINING

Duration: 5 Days

Course Description

This ONTAP Cluster Administration and Data Protection Bundle (CDOTDP9) Training course is a five days training course, wherein 3 days are committed to ONTAP Cluster Administration (ONTAP9ADM), while, the remaining 2 days are committed to ONTAP Data Protection Administration (DATAPROT9).

The initial three days give hands-on exercises and lectures to teach you about the fundamental administration & configuration of a cluster. On the flip side, the hands-on labs allow you to exercise working with ONTAP characteristics and manage your network resources & storage using the cluster shell and OnCommand System Manager.

The rest 2 days, students spend learning the key technologies of ONTAP Data protection administration. You will learn how to execute and maintain SnapLock, SnapMirror, and SnapVault technology which is used to copy & restore mission-critical data in the organization.

It additionally surveys real-time circumstances and uses cases to train you at what time you utilize each of the NetApp protection solutions. You will also learn backing and restoration operations via the command line & OnCommand System Manager.

NOTE: In ONTAP 9.7, NetApp has introduced improvements in networking and security, protocols, data Protection and Encryption, hardware support, storage efficiency, REST APIs, and many more. Microtek Learning has incorporated this content into the existing ONTAP 9.6 Administration class to make sure you are getting the updated training accessible.

Who should attend this course?

- Network Engineers
- Channel Partners
- System Engineers
- NetApp Customers

What you will learn

- Manage ONTAP administrators
- Configure and manage storage resources
- Configure and manage networking resources
- Create and configure a storage virtual machine (SVM)
- Create and manage FlexVol volumes
- Implement storage efficiency features
- Create protocol servers within an SVM
- Configure basic data protection features
- Perform administrative and preventive maintenance tasks
- Describe the data protection features in ONTAP software
- Configure SnapMirror® relationships for data replication
- Demonstrate storage virtual machine disaster recovery (SVM DR)
- Explain MetroCluster™ components and configuration
- Configure the SnapVault® feature for disk-to-disk backup and recovery
- Describe NDMP-enabled operations to back up NAS data to tape storage
- Describe the NetApp SnapCenter® software that is used for ONTAP data protection management
- Explain cloud-based data protection with NetApp Cloud Volumes ONTAP

Prerequisites

- ONTAP Cluster Fundamentals WBT
- ONTAP NAS Fundamentals WBT
- ONTAP SAN Fundamentals WBT
- ONTAP Data Protection Fundamentals WBT

Curriculum

ONTAP Cluster Administration and Data Protection Bundle (CDOTDP9)

ONTAP9ADM:

Module 1: NetApp ONTAP 9 Clusters

- ONTAP deployment options
- The Cluster
- Storage Virtual Machine's (SVMs)

Module 2: Cluster Setup

- Supported All Flash FAS and FAS configurations
- Setting up a Cluster
- Administration Interfaces

Module 3: Cluster Management

- Access control
- Date and Time
- Licenses
- Policies, Jobs 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 Drive Partitioning
- Flash Cache and Flash Pool
- FabricPool Aggregates

Module 6: Logical Storage Management

- Flexible Volumes
- Provisioning Storage Resources
- Moving Storage Resources

Module 7: Data Access

- Using NAS Protocols to Access Data
- Use SAN Protocols to Access Data

Module 8: Data Protection

- Manage Snapshot Copies
- Restore Data from a Snapshot Copy
- Backup and Replicate Data
- Compliance
- Storage Encryption

Module 9: Storage Efficiency

- Thin Provisioning
- Deduplication and Compression
- Flash Efficiency
- FlexClone Volumes

Module 10: Cluster Maintenance

- Data collection, Monitoring and Automation Tools
- Backing up and Restore Cluster Configuration
- Upgrading your Cluster
- Performance Recommended Practices
- Technical Support
- Documentation

Module 11: Course Review

ONTAP9ADM Labs:

- Exploring ONTAP Management UIs
- Managing ONTAP clusters and administrators
- Managing physical and logical network resources
- Managing virtual network resources
- Managing physical storage
- Exploring RAID-TEC and creating a flash pool
- Managing data volumes
- Configuring NAS protocols in an SVM
- Configuring iSCSI in an SVM
- Managing Snapshot copies
- Encrypting a volume
- Managing storage efficiency
- Managing FlexClone volumes
- Bonus Exercise: creating a FlexGroup volume
- Installing and configuring Config Advisor

ONTAP Data Protection

Module 1: ONTAP Integrated Data Protection

- Data Fabric and ONTAP Software
- ONTAP Data Protection Solutions
- Data Protection Management Solutions

Module 2: SnapMirror Fundamentals

- SnapMirror Overview
- Configuring SnapMirror Relationships

- Additional SnapMirror Configuration Considerations
- Guidelines for Intercluster Networking
- Cluster and SVM Peering

Module 3: SnapMirror Operation

- SnapMirror Asynchronous
- Using SnapMirror for Disaster Recovery
- SnapMirror Synchronous
- SnapMirror and ONTAP Feature Interaction

Module 4: Storage Virtual Machine Disaster Recovery

- SVM Disaster Recovery (SVM DR) Overview
- Prepare a SVM for Data Protection
- Perform a SVM Initial Data Transfer
- SVM Manual Update

Module 5: MetroCluster

- MetroCluster Fundamentals
- MetroCluster Operations

Module 6: SnapVault

- Implementing a SnapVault Relationship
- Using SnapVault Software to Restore Data

Module 7: NDMP and Tape Backup

- NDMP Fundamentals
- NDMP Management

Module 8: SnapCenter

- NetApp SnapCenter software
- Integration with third-party management software

Module 9: Cloud Volumes ONTAP

- Cloud Volumes ONTAP Environment
- Data Protection Capabilities of Cloud Volumes ONTAP

Module 10: Course Review

ONTAP Data Protection Labs:

- Configuring a load-sharing mirror relationship
- Configuring cluster peering and SVM peering
- Using SnapMirror software to mirror FlexVol volumes
- Performing SnapMirror disaster recovery
- Configuring a SnapMirror synchronous relationship
- Using FlexClone technology to clone a SnapMirror volume
- Configuring storage virtual machine disaster recovery
- Configuring the SnapVault relationship
- Using SnapVault to restore data

For any query Contact Us – Microtek Learning
