ONTAP Data Protection Administration (DATAPROT9)

Who should attend

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

This course is part of the following Certifications

NetApp Certified Data Administrator, ONTAP (NCDA)
NetApp Certified Implementation Engineer – Data Protection
Specialist (NCIE DATA PROTECTION)

Prerequisites

- ONTAP Cluster Administration (ONTAP9ADM)
- ONTAP Data Protection Fundamentals WBT

Course Objectives

This course focuses on enabling you to do the following:

- Identify the data protection features in NetApp ONTAP software
- Configure SnapMirror relationships for disaster recovery and data backup
- Demonstrate SVM DR
- Explain MetroCluster software components and functionality
- Describe SnapMirror Business Continuity components and functionality
- Describe NDMP-enabled operations to back up NAS data to tape
- Identify the cloud-based data protection solutions that NetApp offers

Course Content

This intermediate-level course introduces key concepts and techniques for protecting data on NetApp® ONTAP® based systems. You learn about the data protection solutions that are integrated in ONTAP software. You also learn about tools for managing ONTAP data protection features. In hands-on exercises,

you use ONTAP System Manager and the ONTAP CLI to perform key data protection tasks. This course is updated for ONTAP 9.8 software.

Detailed Course Outline

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

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