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Learning Style: Virtual Classroom

Technology: NetApp

Difficulty: Intermediate

Course Duration: 2 Days

## ONTAP Data Protection Administration (DATAPROT9)



## About the course:

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 the hands-on exercises, you use ONTAP System Manager and the ONTAP CLI to perform key data protection tasks. This course is updated for ONTAP 9.11.1 software.

A NetApp Software Engineer can earn up to **\$99,827/-** on average, per annum.

## Course Objective:

Once the course is complete, candidates will be able to;

- Identify the data protection features in NetApp ONTAP software
- Configure SnapMirror® relationships for disaster recovery and data backup
- Demonstrate SVM DR
- Explain MetroCluster 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

## Audience:

This course is intended to be undertaken by:

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

## Prerequisites:

- ONTAP Cluster Administration (ONTAP 9.11) (ONTAP9ADM)
- ONTAP Data Protection Fundamentals WBT

## Course Outline:

### Module 1: Overview of ONTAP data protection

- Data protection introduction
- ONTAP data protection solutions

- ONTAP management solutions

## **Module 2: SnapMirror Fundamentals**

- SnapMirror overview
- Configuring SnapMirror relationships
- Guidelines for Intercluster networking
- Cluster and storage VM peering

## **Module 3: SnapMirror for disaster recovery and backup**

- SnapMirror for FlexVol volumes
- SnapMirror configuration considerations
- Using SnapMirror for volumes
- Interaction between SnapMirror and other ONTAP features
- S3 SnapMirror
- FabricPool
- Load-sharing mirrors
- Addendum: SnapMirror and other data protection feature interaction

## **Module 4: SnapMirror Synchronous for disaster recovery**

- SnapMirror Synchronous
- Configuring SnapMirror Synchronous
- Additional SnapMirror Synchronous configuration

## **Module 5: Storage VM Disaster Recovery (SVM DR)**

- SVM DR introduction
- SVM DR requirements and configuration
- SVM data mobility

## **Module 6: ONTAP backup and archive solutions**

- NDMP fundamentals
- NDMP topologies
- NDMP management
- Addendum: NetApp SnapCenter

## **Module 7: Cloud-based data protection**

- Cloud Volumes ONTAP
- SnapMirror Cloud
- Cloud Backup Service
- ONTAP data protection with cloud volumes

## **Module 8: ONTAP business continuity solutions**

- MetroCluster fundamentals
- MetroCluster operations

- Consistency group management
  - SnapMirror Business Continuity introduction
  - SnapMirror Business Continuity configuration
  - Failover operations and failure scenarios
  - Addendum: SyncMirror feature
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- Configuring cluster peering and Storage VM peering
  - Using SnapMirror software to mirror FlexVol volumes
  - Performing SnapMirror disaster recovery
  - Configuring SnapMirror for unified replication
  - Restoring data from a Snapshot copy
  - Configuring a load-sharing mirror relationship
  - Configuring cluster and storage VM peering for a cascade relationship
  - Configuring a cascade relationship
  - Configuring a SnapMirror synchronous relationship
  - Configuring SVM DR