

# **ONTAP Data Protection Administration (ONTAP 9.5) (DATAPROT9)**

**Modality: Virtual Classroom**

**Duration: 2 Days**

**NATU: 24 Units**

## ***About this course:***

Protecting and securing data in NetApp ONTAP Systems requires a professional training. The training enables the performer to adequately perform the tasks required. This is where this course comes. This course is suitable for you if you want learn techniques and methods to protect data in the ONTAP software. The course is designed to teach you on methods regarding various data protection solutions. These methods can be incorporated in the ONTAP software, like SyncMirror, SnapVault Solutions, SnapMirror and SVM disaster recovery. Not only this, the course also provides the opportunity of learning an overview of NDMP, ONTAP MetroCluster Configuration, and cloud based data protection. This will be done through the usage of NetApp Data Availability Services, and NetApp Cloud Volumes ONTAP. Alongside these features, the learners will also get the benefit of learning about different methods and tools which can be used to effectively manage the data protection in ONTAP. The course will be conducted by an instructor who will deliver lectures and teach through practical demonstrating exercises. The learners will understand the working mechanism of NetApp OnCommand System Manager and CLI in order to complete crucial data protection tasks.

On average, a NetApp Software Engineer has an earning of up to \$99,827 per annum.

## ***Learning objectives:***

The course has the following learning objectives:

- Explain the data protection features in the ONTAP software
- Describe the features and configuration of SyncMirror software in ONTAP
- Explain data mirroring relationships in ONTAP software
- Setting up ground of SnapMirror relationships for data replication
- Practically demonstrate storage virtual machine disaster recovery (SVM DR)
- Describe the features and setup of MetroCluster software
- Set up SnapVault software for disk-to-disk backup and recovery
- Explain the backing up of data to tape by NDMP operation
- Describe the cloud-based protection of data through the usage of NetApp Cloud Volumes ONTAP and NetApp Data Availability services
- Explain about that NetApp and third-party software which is used for management of ONTAP data protection.

## ***Audience:***

The course is catered to fulfill the needs of and can be taken by NetApp customers, Network

engineers, Channel partners and system engineers.

## **Requirements:**

This course requires two things from its learners. They are knowledge of administration in ONTAP Cluster (in the versions, ONTAP 9.5, ONTAP9ADM), and knowledge of ONTAP data protection fundamentals WBT.

## **Course Outline:**

### **Module 1: ONTAP Integrated Data Protection**

- ONTAP Data Protection Solutions
- Data protection management solutions
- Managing and monitoring tool

### **Module 2: SyncMirror Software**

- SyncMirror software for high availability
- Mirrored aggregates
- SyncMirror plex failure

### **Module 3: ONTAP Mirroring Fundamentals**

- Components of a mirror relationship
- Configuration guidelines for intercluster SanpMirror software
- Cluster and firewall requirements
- DPO systems
- FabricPool
- Cluster and SVM Peering

### **Module 4: SnapMirror Software**

- Creating and initializing the SnapMirror relationship
- Disaster recovery using SnapMirror software
- SnapMirror and ONTAP feature interaction

### **Module 5: Storage Virtual Machine Disaster Recovery**

- Replicating configurations in SVM disaster recovery
- SVM initial data transfer
- SVM disaster-recovery relationship
- Scheduled SVM updates

### **Module 6: MetroCluster Configuration**

- Fundamentals
- Operations

## **Module 7: SnapVault Software**

- Implementing a SnapVault relationship
- Using SnapVault software to restore data

## **Module 8: NDMP and Tape Backup**

- NDMP fundamentals
- NDMP management

## **Module 9: Cloud Volumes ONTAP and Data Availability Services**

- NetApp cloud volumes ONTAP
- NetApp data availability services

## **Module 10: SnapCenter and Third-Party Management Software**

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

## **Module 11: Course Review**

### **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