

# ONTAP Cluster Administration (ONTAP 9.5) (ONTAP9ADM)

## **Module 1: NetApp ONTAP 9 Clusters**

- ONTAP deployment options
- The cluster
- SVMs
- ONTAP select learning resources
- NetApp cloud volumes learning resources

## **Module 2: Cluster Setup**

- Supported FAS and AFF configurations
- Cluster setup
- Administration interfaces
- OnCommand System Manager: Guided cluster setup

## **Module 3: Cluster Management**

- Manage access control
- Cluster node date and time
- ONTAP software licenses
- Manage jobs and schedules

## **Module 4: Network Management**

- NetApp ONTAP Network Review
- Network ports
- Network traffic segregation
- LIFs
- Nondisruptive LIF configuration
- Routing management
- Failover group commands
- Routing management commands
- BGP and VIP LIFs

## **Module 5: Physical Storage Management**

- Drives, RAID and aggregates
- Advanced drive partitioning
- Flash cache and flash pool features
- FabricPool aggregates
- FabricPool in OnCommand System Manager

## **Module 6: Logical Storage Management**

- Flexible volumes
- Provisioning storage resources
- Moving storage resources
- FlexGroup and FlexCache volumes

- Autobalance aggregate

### **Module 7: Data Access**

- Use NAS protocols to access data
- Use SAN protocols to access data
- NVMe and NVMe/FC

### **Module 8: Data Protection**

- Manage Snapshot copies
- Restore data from a Snapshot copy
- Backup and replicate data
- Compliance
- Storage encryption
- Secure purge and secure boot

### **Module 9: Storage Efficiency**

- Thin provisioning
- Deduplication and compression
- Flash efficiency
- Volume and file clones
- Inline deduplication status
- Inline data compaction

### **Module 10: Cluster Maintenance**

- Data collection, monitoring and automation tools
- Backing up and restoring your cluster configuration
- Upgrading your cluster
- Performance recommended practices
- Technical support
- Documentation
- ONTAP software upgrades

### **Module 11: Course Review**

#### **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

