Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

Detalles de contacto

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ONTAP 9.10 Cluster Administration and Data Protection Bundle

CÓDIGO:	DURACIÓN:	Precio:
NEP_OT-CLU-DPA9.10	40 Hours (5 días)	€4,750.00

Description

This 5 day course comprises the ONTAP Cluster Administration followed by the 2 day ONTAP Data Protection Administration courses.
The first 3 days uses lecture and hands-on exercises to teach the basic administration tasks of an ONTAP 9.10 cluster. You use the cluster shell and OnCommand System Manager to manage storage and network resources. ONTAP Cluster Administration is an intermediate course in a comprehensive learning path for NetApp customers, partners and employees.
Students spend the final 2 days learning about the different data protection solutions that are integrated into ONTAP software, including the SyncMirror, SnapMirror, storage virtual machine (SVM) disaster recovery, and SnapVault solutions. The course also provides an overview of ONTAP MetroCluster configuration, NDMP, and cloud-based data protection with NetApp Cloud Volumes ONTAP and NetApp Data Availability Services. You also learn about the tools for managing ONTAP data protection features. In the hands-on exercises, you use NetApp OnCommand System Manager and the CLI to complete key data protection tasks.
The course also provides an overview of the ONTAP MetroCluster high-availability and disaster recovery software solution.

Objetivos

- Define ONTAP cluster components
- Describe the role of a storage VM (storage virtual machine, also known as SVM) in the NetApp storage architecture
- Configure an ONTAP cluster
- Configure and manage storage resources
- Configure and manage networking resources
- Create and configure a storage VM
- Create, manage, and protect NetApp FlexVol® volumes
- Implement storage efficiency features
- Manage ONTAP administrator access and user accounts
- Maintain NetApp storage systems
- Describe and distinguish the data protection features in ONTAP software
- Administer the appropriate ONTAP data protection feature to address your data protection concern
- Configure NetApp SnapMirror® relationships for disaster recovery and data backup
- Demonstrate SVM DR
- Illustrate NDMP-enabled operations to back up NAS data to tape
- Integrate the cloud-based data protection solutions that complement your ONTAP based storage systems
- Structure NetApp MetroCluster components and functionality
- Illustrate NetApp SnapMirror Business Continuity components and functionality

Público

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

Requisitos Previos

Completion of the following free of charge web based training modules via the NetApp Learning Center are required.

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

Programa

Module 0: Welcome *ONTAP Cluster Administration* Module 1: NetApp ONTAP 9 clusters

- ONTAP deployment options
- The ONTAP cluster
- Storage VMs
- Software-defined storage

Module 2:Cluster setup

- Supported ONTAP cluster configurations
- Setting up a cluster
- Administration interfaces

Module 3:Cluster management

- Access control
- ONTAP licensing
- Policies and schedules

Module 4:Network management

- NetApp ONTAP network review
- Network ports
- Network traffic segregation
- LIFs
- Nondisruptive LIF configuration
- Network security
- Routing management

Module 5:Physical storage management

- Drives, RAID, and aggregates
- Advanced Disk Partitioning
- Flash Cache and Flash Pool features
- FabricPool aggregates

Module 6: Logical storage management

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

Module 7:Data access

- Using NAS protocols to access data
- Using SAN protocols to access data
- Use object protocols to access data

Module 8:Data protection

- Manage Snapshot copies
- Restore data from a Snapshot copy
- Back up and replicate data
- Compliance
- Storage encryption
- Ransomware protection

Module 9: Storage efficiency

- Thin provisioning
- Deduplication and compression

- Flash efficiency
- Logical space reporting
- Volume and file clones

Module 10:Cluster maintenance

- Data collection, monitoring, and automation tools
- Backing up and restoring your cluster configuration
- Upgrading your cluster
- Recommended practices for performance

ONTAP Data Protection Administration **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 Overview
- SVM DR requirements and configuration
- SVM data mmobility

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 funamentals

- Metrocluster operations
- Consistency group management
- SnapMirror Business Continuity introduction
- SnapMirror Business Continuity configuration
- Failover operations and failure scenariosAddendum: SyncMirror feature

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.