



ONTAP Cluster Administration

Product code: NEP_OT-CLU-A

Duration: 3 days (24 hours)

Regular price: 13 850 PLN

Description:

Learn the basic administration tasks of a NetApp® ONTAP® 9.14 cluster. Use the clustershell and NetApp ONTAP System Manager to manage cluster storage and network resources. Discover how to configure basic data protection and data efficiency functions and common cluster maintenance tasks

Purpose of the training:

- 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 both networking and storage 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
- Manage NetApp storage system

Participants:

- Administrator
- Architect
- Operator

Prerequisites:

ONTAP Cluster Fundamentals, NAS and SAN Fundamentals elearning is required.

Training program:

3 day 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
 - ONTAP licences
 - Policies and Schedules
- Exercises**
 Deploying an ONTAP cluster
 Exploring ONTAP management UIs
 Configuring ONTAP Clusters

Module 3: Physical Storage Management

- Drives, RAID, and aggregates
 - Advanced Disk Partitioning
 - Flash Cache and Flash Pool features
 - FabricPool aggregates
- Exercises**
 Managing physical storage
 Exploring RAID-TEC

Module 4: Logical Storage Management

- Flexible volumes
 - Moving storage resources
 - FlexGroup volumes
 - FlexCache volumes
- Exercises**
 Managing data volumes
 Creating a FlexGroup volume

Module 5: Storage Efficiency

- Thin provisioning
 - Deduplication and compression
 - Flash efficiency
 - Volume and file clones
- Exercises**
 Managing storage efficiency
 Managing FlexClone volumes

Module 6: Network Management

- ONTAP network review
 - Network ports
 - Network traffic segregation
 - Logical network interfaces
 - Nondisruptive LIF configuration
 - Network security
 - Routing management
- Exercises**

Managing physical and logical network resources
Managing virtual network resources

Module 7: NAS Data Access

- Use NAS protocols to access data
- Use the NFS protocol to access data
- Use the SMB protocols to access data
- Use the S3 protocols to access data

Exercises

Monitoring with ONTAP File System Analytics
Configuring the NFS protocol in a storage VM
Configuring the SMB protocol in a storage VM
Configuring the S3 protocol in a storage VM

Module 8: SAN Data Access

- Use SAN protocols to access data
- Use the iSCSI protocol to access data
- Use the FC protocols to access data
- Use the NVMe protocols to access data

Exercises

Configuring iSCSI in a storage VM
Configuring NVMe in a storage VM

Module 9: Data Protection

- Manage Snapshot copies
- Restore data from a Snapshot copy
- Back up and replicate data
- Compliance

Exercises

Managing Snapshot copies

Module 10: ONTAP Security

- Access control
- Storage encryption
- Ransomware protection

Exercises

Managing ONTAP Administrators

Module 11: Cluster maintenance

- Data collection, monitoring, and automation tools
- Upgrading your cluster
- Technical support

Exercises

Installing and configuring Active IQ Config Advisor

Term:

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