



Enterprise Computing Solutions - Education Services

NABÍDKA ŠKOLENÍ

Prosím kontaktujte nás zde

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ONTAP 9.10 Cluster Administration and Data Protection

Kód:	DÉLKA:	CENA:
NEP_OT-CLU-DPA9.10	40 Hours (5 DENNÍ)	Kč bez DPH 123,000.00

Description

Školení je vedené virtuálně v angličtině.

Cena školení je 4 125 GBP bez DPH a bude přepočtena aktuálním kurzem v poslední den školení.

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.

Cíle

- 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

Určeno pro

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

Vstupní znalosti

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

Program

Module 0: Welcome

Module 1: NetApp ONTAP 9 clusters

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

Module 4:Network management

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

Module 7:Data access

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

Module 10:Cluster maintenance

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

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 5:Physical storage management

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

Module 8:Data protection

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

• Compliance

• Storage encryption

• Ransomware protection

Module 6: Logical storage management

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

Module 9: Storage efficiency

- Thin provisioning
- Deduplication and compression
- Flash efficiency
- Logical space reporting
- Volume and file clones

Module 1: Overview of ONTAP data protection

- SnapMirror Overview
- Configuring SnapMirror Relationships
- Guidelines for Intercluster Networking
- Cluster and Storage VM Peering

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

SnapMirror Synchronous

Configuring SnapMirror Synchronous

Additional SnapMirror Synchronous configuration

SVM DR Overview

SVM DR requirements and configuration

SVM data mobility

NDMP fundamentals

NDMP topologies

NDMP management

Addendum: NetApp SnapCenter Module 7: Cloud-based data protection

Module 6: ONTAP backup and archive solutions

Cloud Volumes ONTAP

SnapMirror Cloud

Cloud Backup Service

ONTAP data protection with cloud volumes

MetroCluster fundamentals

Metrocluster operations

Consistency group management

SnapMirror Business Continuity introduction

SnapMirror Business Continuity configuration

Failover operations and failure scenariosAddendum: SyncMirror feature

Module 8: ONTAP business continuity solutions

Termíny školení

Termíny školení na vyžádání, [kontaktujte nás prosím](#)

Dodatečné informace

Školení je možné zajistit na míru. [Kontaktujte nás pro bližší informace.](#)