



Enterprise Computing Solutions - Education Services

## NABÍDKA ŠKOLENÍ

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**Prosím kontaktujte nás zde**

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# ONTAP Cluster and Data Protection Administration

<b>Kód:</b>	<b>DÉLKA:</b>	<b>CENA:</b>
NEP_OT-CLU-DPA	40 Hours (5 DENNÍ)	Kč bez DPH 122,000.00

## Description

Cena kurzu je 4330 GBP bez DPH a bude přepočtena aktuálním kurzem v poslední den konání 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 9.11 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 web based training modules accessed free of charge via the NetApp Learning Centre

ONTAP Cluster Fundamentals

ONTAP NAS Fundamentals

ONTAP SAN Fundamentals

Please contact us for further support as required..

## Program

- ONTAP deployment options
  - The ONTAP cluster
  - Storage VMs
- 3 day Cluster Administration** Module 1: NetApp ONTAP 9 clusters • Software-defined storage    Module 2: Cluster setup
- Module 3: Cluster management
- Supported ONTAP cluster configurations
  - Setting up a cluster
  - Administration interfaces
  - NetApp ONTAP network review
  - Network ports
  - Network traffic segregation
  - LIFs
  - Nondisruptive LIF configuration
  - Network security
  - Routing management
- Access control
  - ONTAP licensing
  - Policies and schedules
- Module 4: Network management
- Drives, RAID, and aggregates
  - Advanced Disk Partitioning
  - Flash Cache and Flash Pool features
  - FabricPool aggregates
- Module 5: Physical storage management
- Flexible volumes
  - FlexGroup volumes
  - FlexCache volumes
- Use NAS protocols to access data
  - Use SAN protocols to access data
  - Use object protocols to access data
  - Thin provisioning
  - Deduplication and compression
  - Flash efficiency
  - Logical space reporting
  - Volume and file clones
- Module 6: Logical storage management • Moving storage resources
- Manage Snapshot copies
  - Restore data from a Snapshot copy
  - Back up and replicate data
  - Compliance
  - Storage encryption
- Module 7: Data access
- Use object protocols to access data
  - Thin provisioning
  - Deduplication and compression
  - Flash efficiency
  - Logical space reporting
  - Volume and file clones
- Module 8: Data protection • Ransomware protection
- Data collection, monitoring, and automation tools
  - Backing up and restoring your cluster configuration
  - Upgrading your cluster
  - Recommended practices for performance
  - Technical support
  - Documentation
- Module 9: Storage efficiency
- Module 10: Cluster maintenance
- Module 11: Course review and postclass assessment    **2 day Data Protection**
- Data protection introduction
- ONTAP data protection solutions
- ONTAP management solutions
- Module 1: Overview of ONTAP data protection
- Module 2: SnapMirror Fundamentals
- 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 3: SnapMirror for disaster recovery and backup
- Module 4: SnapMirror Synchronous for disaster recovery
- SVM DR introduction
  - SVM DR requirements and configuration
  - SVM data mobility
- Module 5: Storage VM Disaster Recovery (SVM DR)
- Module 6: ONTAP backup and archive solutions
- NDMP fundamentals
  - NDMP topologies
  - NDMP management
  - Addendum: NetApp SnapCenter
- Cloud Volumes ONTAP
  - SnapMirror Cloud
  - Cloud Backup Service
  - ONTAP data protection with cloud volumes
- Module 7: Cloud-based data protection
- Module 8: ONTAP business continuity solutions

MetroCluster fundamentals  
MetroCluster operations  
Consistency group management  
SnapMirror Business Continuity introduction  
SnapMirror Business Continuity configuration  
Failover operations and failure scenarios  
Addendum: SyncMirror feature  
Configuring cluster peering and Storage VM peering  
Using SnapMirror software to mirror FlexVol volumes  
Performing SnapMirror disaster recovery  
Configuring SnapMirror for unified replication  
Restoring data from a Snapshot copy  
Configuring a load-sharing mirror relationship  
Configuring cluster and storage VM peering for a cascade relationship  
Configuring a cascade relationship  
Configuring a SnapMirror synchronous relationship  
Configuring SVM DR

## Zkoušky a certifikace

NetApp Certified Storage Installation Engineer (NCSIE)

This course supports part of the following NetApp certifications: NetApp Certified Data Administrator (NCDA)

## Termíny školení

Datum	Místo konání	Časové pásmo	Jazyk	Typ	Garance termínu	CENA
16 Jun 2025	Virtual Classroom	CEDT	English	Instructor Led Online		Kč bez DPH 122,000.00

## Dodatečné informace

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