



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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**Du kan nå oss här**

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# Integrating Hybrid Clouds with Microsoft Azure

CODE:	LENGTH:	PRICE:
NEP_UNCMMAZ	16 Hours (2 days)	kr24,000.00

## Description

Learn to implement a hybrid cloud solution with Microsoft Azure by using NetApp® Cloud Volumes ONTAP®. Connect an Azure Virtual Network (VNet) and an on-premises data center to unify your infrastructure. Use NetApp Cloud Manager to move data and manage storage in the hybrid cloud. Learn about how NetApp cloud services are integrated into Cloud Manager to provide persistent storage for Kubernetes containers and enhance data protection, security, and compliance. Learn to optimize capacity and performance of Cloud Volumes ONTAP

## Objectives

This course focuses on enabling you to do the following:

- Describe how NetApp technologies can be used to build your data fabric
- Configure a VNet and connect it to an on-premises data center with VPN Internet Protocol security (IPsec)
- Describe Cloud Volumes ONTAP architecture
- Install a Connector and deploy Cloud Volumes ONTAP
- Explain basic system administration tasks with Cloud Manager
- Copy data between an ONTAP based system and Cloud Volumes ONTAP for Azure for disaster recovery
- Use data tiering to Azure Blob storage for Cloud Volumes ONTAP
- Use Cloud Volumes ONTAP as persistent storage for Kubernetes containers
- Identify performance and sizing options for Cloud Volumes ONTAP

## Audience

- Administrators
- Operators
- Architects
- Implementation Engineers

## Prerequisites

For a successful learning experience, NetApp recommends that you know the following concepts before you attend the course.

- **Cloud computing concepts** - Cloud characteristics, service delivery methods & cloud deployment models
- **Networking concepts and definitions** - Classless Inter-Domain Routing (CIDR) and network address translation (NAT)
- **Azure concepts** - Subscriptions, VNet, virtual machines (VMs), Azure storage accounts, and Azure Blob storage

## Programme

Lesson 1: Data Fabric  
Lesson 2: Solutions for the Hybrid Cloud  
Lesson 3: NetApp Public Cloud Products  
Lesson 4: Cloud Storage  
Lesson 5: Cloud Services and Analytics

**Module 1: Data Fabric Overview** Lesson 6: Cloud Controls

Lesson 1: Azure Networking and Other Concepts

Lesson 2: Terraform Introduction

**Module 2: Public Cloud Essential Concepts**

**Module 3: Connectivity from the Public Cloud to Other Networks**

Lesson 1: Microsoft Azure VNET Connectivity to an On-Premises Network **Module 4: NetApp Cloud Manager**

Lesson 1: NetApp Cloud Manager Overview **Module 5: NetApp Cloud Volumes ONTAP: Single-Node Architecture**

Lesson 1: Cloud Volumes ONTAP

Lesson 2: Cloud Volumes ONTAP: Use Cases

Lesson 3: Cloud Volumes ONTAP Architecture

Lesson 4: Deploying Cloud Volumes ONTAP

Lesson 5: Cloud Volumes ONTAP Supported Features

**Module 6: NetApp Cloud Volumes ONTAP: High-Availability Architecture**

Lesson 1: Highly Available Cloud Volumes ONTAP in Azure

**Module 7: Administration of NetApp Cloud Volumes ONTAP and NetApp Cloud Manager**

Lesson 1: Administering Cloud Volumes ONTAP

Lesson 2: Administering Cloud Manager

**Module 8: Implementing Disaster Recovery with NetApp Cloud Volumes ONTAP**

Lesson 1: Disaster Recovery with Cloud Volumes ONTAP Overview

**Module 9: Data Tiering for NetApp Cloud Volumes ONTAP** Lesson 1: Data Tiering for Cloud Volumes ONTAP Overview

**Module 10: Using NetApp Cloud Manager to Provision Persistent Storage for Kubernetes Clusters**

Lesson 1: Using Cloud Manager to Provision Persistent Storage for Kubernetes Cluster Overview

**Module 11: Using Integrated Services from NetApp Cloud Manager**

Lesson 1: Using Cloud Backup Service from Cloud Manager

Lesson 2: Using Cloud Sync from Cloud Manager

Lesson 3: Using Cloud Compliance from Cloud Manager

Lesson 4: Using Cloud Tiering Service from Cloud Manager **Module 12: Sizing NetApp Cloud Volumes ONTAP**

Lesson 1: An Introduction to Sizing

Lesson 2: Capacity Sizing

Lesson 3: Performance Sizing

Lesson 4: Single Node versus High Availability

Lesson 5: Key Differences between Cloud Volumes ONTAP and On-Premises ONTAP software

Lesson 6: Performance Tuning

Lesson 7: Frequently Seen Sizing Mistakes

**Test and Certification**

This course is part of the following certifications:

- NetApp Certified Hybrid Cloud Architect
- NetApp Certified Hybrid Cloud Implementation Engineer
- NetApp Certified Hybrid Cloud Administrator

**Session Dates**

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
14 May 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr24,000.00
11 Jun 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr24,000.00
09 Jul 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr24,000.00
20 Aug 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr24,000.00
10 Sep 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr24,000.00
08 Oct 2024	Virtual Classroom (GMT)	BST	English	Instructor Led Online		kr24,000.00
12 Nov 2024	Virtual Classroom (GMT)	GMT	English	Instructor Led Online		kr24,000.00
10 Dec 2024	Virtual Classroom (GMT)	GMT	English	Instructor Led Online		kr24,000.00

**Ytterligare information**

[Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.](#)