# ARROW

# TRAINING OFFERING

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# NetApp    Integrating Hybrid Clouds with Microsoft Azure

| CODE: | LENGTH: | PRICE: |
|---|---|---|
| NEP_UNCMMAZ | 16 Hours (2 days) | kr26,000.00 |

## 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

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

**Module 2: Public Cloud Essential Concepts**
Lesson 1: Azure Networking and Other Concepts
Lesson 2: Terraform Introduction

**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 |
|---|---|---|---|---|---|---|
| 29 Jan 2026 | Virtual Classroom (GMT) | GMT | English | Instructor Led Online | | kr24,000.00 |
| 07 May 2026 | Virtual Classroom (GMT) | BST | English | Instructor Led Online | | kr24,000.00 |
| 03 Sep 2026 | Virtual Classroom (GMT) | BST | English | Instructor Led Online | | kr24,000.00 |
| 05 Nov 2026 | 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.