

# Integrating Hybrid Clouds with Amazon Web Services (NA- IHCAWS)

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## Course Description

This course describes the features and benefits of the NetApp Cloud Volumes ONTAP system. The course helps enable you to explain the architecture and functionality of cloud based ONTAP storage.

Also, the course introduces basic administration, configuration, and management of the Cloud Volumes ONTAP system using Cloud Manager.

## Course Duration

3 days.

## Prerequisites

Basic knowledge of:

- ONTAP 9
- AWS, MS Azure, and Google Cloud Platform

## Objectives

This course focuses on enabling you to do the following:

- Create a VPN connection between a public cloud network VPC and an on-premises data center
- Deploy a connector in the public cloud
- Deploy Cloud Volumes ONTAP in both a single-node and high-availability (HA) configuration
- Use BlueXP to administer Cloud Volumes ONTAP
- Explore data protection options of Cloud Volumes ONTAP
- Analyze data tiering options from on premises to cloud

## Course Outline

### 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: AWS Networking and Other Concepts
- Lesson 2: AWS CloudFormation

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

- Lesson 1: Amazon Web Services Virtual Public Cloud 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 AWS

### 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 NetApp Cloud Volumes ONTAP Overview

### Module 9: Data Tiering for NetApp Cloud Volumes ONTAP

- Lesson 1: Data Tiering for NetApp Cloud Volumes ONTAP Overview

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

- Lesson 1: Using NetApp Cloud Manager to Provision Persistent Storage for Kubernetes Clusters 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 OnPremises ONTAP Software Lesson 6: Performance Tuning
- Lesson 7: Frequently Seen Sizing Mistakes

## Who Should Attend

Systems administrator, operator, cloud architect, enterprise architect, and integration developer.