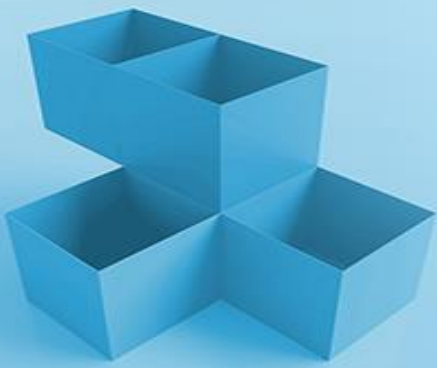


Integrating Hybrid Clouds with AWS



Delivery: Instructor-led-training (ILT)

Duration: 2 days

Course Description

Learn to implement a hybrid cloud solution with Amazon Web Services (AWS) by using NetApp® Cloud Volumes ONTAP®. Connect a Virtual Private Cloud (VPC) and an on-premises data center to unify your infrastructure. Use NetApp BlueXP™ to move data and manage storage in the hybrid cloud. Explore how NetApp cloud services are integrated into BlueXP to provide enhanced data protection, security, and compliance. Finally, discover how to optimize the capacity and performance of Cloud Volumes ONTAP.

Role

Administrator, architect, and engineer

Prerequisites

- Integrating Hybrid Clouds Foundation
- Previous knowledge of AWS and cloud computing concepts such as subscriptions, VPC, virtual machines (VMs), Amazon Simple Storage Service (Amazon S3), Classless Inter-Domain Routing (CIDR), and network address translation (NAT)

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 for Cloud Volumes ONTAP
- Analyze data tiering options from on premises to cloud

Course Content

This course includes the following modules, lessons, and exercises:

Module	Lessons	Exercises
Module 1: AWS Cloud essential concepts	<ul style="list-style-type: none"> • AWS networking and other concepts • AWS CloudFormation 	<ul style="list-style-type: none"> • Controlling cloud resources with the CLI • Controlling ONTAP on-premises resources with NetApp PowerShell Toolkit • Configuring resources in AWS with CloudFormation • Reviewing resources in the AWS Cloud console • Verifying connectivity to the Amazon EC2 instances in the public and private subnets
Module 2: Network connectivity options in AWS	<ul style="list-style-type: none"> • AWS VPC connectivity to an on-premises network 	<ul style="list-style-type: none"> • Connecting an AWS VPC to an on-premises network • Configuring the on-premises DNS for AWS (optional)
Module 3: Deploy a connector	<ul style="list-style-type: none"> • Connector review 	<ul style="list-style-type: none"> • Deploying a connector
Module 4: Cloud Volumes ONTAP	<ul style="list-style-type: none"> • Architecture review • Deployment • High-availability review 	<ul style="list-style-type: none"> • Deploying a single-node Cloud Volumes ONTAP instance with NFS • Creating an SMB volume and accessing it from an SMB client • Deploying a Cloud Volumes ONTAP HA pair • Performing failover and failback of the HA pair of nodes • Connecting an SMB client from outside the VPC by using a transit gateway
Module 5: Administration	<ul style="list-style-type: none"> • Administering Cloud Volumes ONTAP 	<ul style="list-style-type: none"> • Using BlueXP for basic administration of Cloud Volumes ONTAP • Administering BlueXP with RBAC
Module 6: Protection	<ul style="list-style-type: none"> • Backup, archive, and disaster recovery • Ransomware protection 	<ul style="list-style-type: none"> • Using ransomware protection • Setting up ARP • Configuring and managing disaster recovery in the data fabric

Module	Lessons	Exercises
Module 7: Tiering	<ul style="list-style-type: none">• Data tiering from on-premises to Amazon S3	<ul style="list-style-type: none">• Tiering data to Amazon S3

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