Integrating Hybrid Clouds with AWS

Category: Cloud Platforms | **Vendor:** Amazon Web Services

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

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 BlueXPTM to move data and manage storage in the hybrid cloud. Learn how NetApp cloud services are integrated into BlueXP to provide enhanced data protection, security, and compliance. Learn how to optimize the capacity and performance of Cloud Volumes ONTAP.

About This Course

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 BlueXPTM to move data and manage storage in the hybrid cloud. Learn how NetApp cloud services are integrated into BlueXP to provide enhanced data protection, security, and compliance. Learn how to optimize the capacity and performance of Cloud Volumes ONTAP.

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

- Integrating Hybrid Clouds Foundation Integrating Hybrid Clouds Foundation (IHCF)
- 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)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

Detailed Course Outline

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

Module 1:

- AWS Cloud essential concepts

Lessons:

- AWS networking and other concepts
- AWS CloudFormation

Exercises

- 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

Lessons:

- AWS VPC connectivity to an on-premises network

Exersises:

- Connecting an AWS VPC to an on-premises network

- Configuring the on-premises DNS for AWS (optional)

Module 3:

- Deploy a connector

Lessons:

- Connector review

Exercises:

- Deploying a connector

Module 4:

- Cloud Volumes ONTAP

Lessons:

- Architecture review
- Deployment
- High-availability review

Exercises:

- 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

Lessons:

- Administering Cloud Volumes ONTAP

Exercises:

- Using BlueXP for basic administration of Cloud Volumes ONTAP
- Administering BlueXP with RBAC

Module 6:

- Protection

Lessons:

- Backup, archive, and disaster recovery
- Ransomware protection

Exercises:

- Using ransomware protection
- Setting up ARP
- Configuring and managing disaster recovery in the data fabric

Module 7:

- Tiering

Lessons:

- Data tiering from on-premises to Amazon S3

Exercises:

- Tiering data to Amazon S3

Skills You Will Learn:

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
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Frequently Asked Questions

Q: What delivery options are available for Integrating Hybrid Clouds with AWS?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Integrating Hybrid Clouds with AWS course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Integrating Hybrid Clouds with AWS training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Integrating Hybrid Clouds with AWS?

Yes, we provide corporate training, dedicated training, and closed classes for Integrating Hybrid Clouds with AWS. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Integrating Hybrid Clouds with AWS, Hybrid Cloud Training, IHCAWS

Q: Why choose Nexus Human for Integrating Hybrid Clouds with AWS?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Integrating Hybrid Clouds with AWS training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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