

Integrating Hybrid Clouds with AWS

Duration: 2 Days Course Code: NEP_DF-HCL-I

Overview:

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

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.

Target Audience:

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

Objectives:

- 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
-

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)
-

Content:

Module 1: AWS Cloud essential concepts	Lessons	Administering Cloud Volumes ONTAP
Lessons	Connector review	Exercises
• AWS networking and other concepts	Exercises	• Using BlueXP for basic administration of Cloud Volumes ONTAP
• AWS CloudFormation	Deploying a connector	• Administering BlueXP with RBAC
Exercises	Module 4: Cloud Volumes ONTAP	Module 6: Protection
• Controlling cloud resources with the CLI	Lessons	Lessons
• Controlling ONTAP on-premises resources with NetApp PowerShell Toolkit	• Architecture review	• Backup, archive, and disaster recovery
• Configuring resources in AWS with CloudFormation	• Deployment	• Ransomware protection
• Reviewing resources in the AWS Cloud console	• High-availability review	Exercises
• Verifying connectivity to the Amazon EC2 instances in the public and private subnets	Exercises	• Using ransomware protection
Module 2: Network connectivity options in AWS	• Deploying a single-node Cloud Volumes ONTAP instance with NFS	• Setting up ARP
Lessons	• Creating an SMB volume and accessing it from an SMB client	• Configuring and managing disaster recovery in the data fabric
AWS VPC connectivity to an on-premises network	• Deploying a Cloud Volumes ONTAP HA pair	Module 7: Tiering
Exercises	• Performing failover and failback of the HA pair of nodes	Lessons
• Connecting an AWS VPC to an on-premises network	• Connecting an SMB client from outside the VPC by using a transit gateway	Data tiering from on-premises to Amazon S3
• Configuring the on-premises DNS for AWS (optional)	Module 5: Administration	Exercises
Module 3: Deploy a connector	Lessons	Tiering data to Amazon S3

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/