Integrating Hybrid Clouds with Amazon Web Services

Cursusduur: 2 Dagen Cursuscode: NEP_DF-HCL-I Trainingsmethode: Virtual Learning

Beschrijving:

English - Please note this course is only available in English.
Nederlands - Let op: deze training is alleen in het Engels beschikbaar.
Franais - Veuillez noter que ce cours est uniquement disponible en anglais.
Learn to implement a hybrid cloud solution with Amazon Web Services by using NetApp® Cloud Volumes ONTAP®. Connect an AWS Virtual Private Cloud 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

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor)of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

Administrators
Operators
Architects
Implementation Engineers

Doelstelling:

- • Describe how NetApp technologies can be used to build your data fabric
- • Configure a AWS VPC 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 AWS for disaster recovery
- • Use data tiering to Amazon S3 for Cloud Volumes ONTAP
- • Use Cloud Volumes ONTAP as persistent storage for Kubernetes containers
- • Identify performance and sizing options for Cloud Volumes ONTAP

Vereiste kennis en vaardigheden:

For a successful learner experience, we recommend that you have knowledge of 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)/Network address translation (NAT)

AWS concepts - AWS VPC, subnets, Internet Gateway, NAT Gateway, route tables, security groups, Amazon EC2, and Amazon Simple Storage Service (Amazon S3)

In addition to the 5 day ONTAP Cluster Administration and Data Protection and the 1 day Integrating Hybrid Clouds Foundation class

Cursusinhoud:

Module 1: Data Fabric Overview

Data fabric

Solutions for the hybrid cloud

NetApp Public Cloud Products

Cloud Storage

Cloud Services and Analytics

Cloud Controls

Module 2: Public Cloud Essential Concepts

AWS Networking and Other Concepts

AWS Cloud Formation

Module 3: Connectivity from the Public Cloud to Other Networks

Amazon Web Services Virtual Public Cloud Connectivity to an On-Premises Network

Module 4: NetApp Cloud Manager

NetApp Cloud Manager Overview

Module 5: NetApp Cloud Volumes ONTAP: Single-Node Architecture

Cloud Volumes ONTAP

Cloud Volumes ONTAP Use Cases

Cloud Volumes ONTAP Architecture

Deploying Cloud Volumes ONTAP

Cloud Volumes ONTAP Supported Features

Module 7: Administration of NetApp Cloud Volumes ONTAP and NetApp Cloud Manager

Administering Cloud Volumes ONTAP

Administering Cloud Manager

Module 8: Implementing Disaster Recovery with NetApp Cloud Volumes ONTAP

Disaster Recovery with NetApp Cloud Volumes ONTAP Overview

Module 9: Data Tiering for NetApp Cloud Volumes ONTAP

Data Tiering for NetApp Cloud Volumes ONTAP Overview

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

Using NetApp Cloud Manager to Provision persistent Storage for Kubernetes Clusters Overview

Module 11: Using Integrated Services from NetApp Cloud Manager

Using Cloud Backup Service from Cloud Manager

Using Cloud Sync from Cloud Manager

Using Cloud Compliance from Cloud Manager

Using Cloud Tiering Service from Cloud Manager

Module 12: Sizing NetApp Cloud Volumes ONTAP

An Introduction to Sizing

Capacity Sizing

Labs:

Controlling cloud resources with CLI

Controlling cloud resources with Powershell Toolkit

Controlling NetApp ONTAP (On-Premises) Resources with NetApp Powershell Toolkit

Configuring Resources in AWS with AWS CloudFormation

Reviewing Resources in the AWS Console

Verifying Connectivity to the EC2 instances in Public and Private Subnets

Connecting AWS VPC to Your On-Premises Network

Configuring your On-Premises DNS and Domain Controller for your Amazon EC2 Instances

Deploying a connector

Deploying a Single-Node Cloud Volumes ONTAP Instance

Accessing the SMB Share from an SMB Client

Creating an NFS Volume and Accessing It from an NFS Client

Deploying a Cloud Volumes ONTAP High-Availability Pair

Connecting an SMB Client from Within the Same VPC

Performing Failover and Failback of the High-Availability Pair of Nodes

(Optional) Connecting an SMB Client from Outside the VPC Using a Transit Gateway

Module 6: NetApp Cloud Volumes ONTAP: High-Availability Architecture	Performance Sizing	Using Cloud Manager for Basic Administration of Cloud Volumes ONTAP
Highly Available Cloud Volumes ONTAP in AWS	Single Node versus High Availability	Doing Basic Administration of Cloud Manager
	Key Differences between Cloud Volumes ONTAP and On-Premises ONTAP software	Configuring and Managing Disaster Recovery in the Data Fabric
	Performance Tuning	Tiering Backup Data to Amazon Simple Storage Service
	Frequently Seen Sizing Mistakes	Exploring the TCO Calculator and Sizer Tools

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

Iepenhoeve 5, 3438 MR Nieuwegein