

Integrating Hybrid Clouds with Amazon Web Services

Cursusduur: 2 Dagen Cursuscode: NEP_DF-HCL-I

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

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	Module 7: Administration of NetApp Cloud Volumes ONTAP and NetApp Cloud Manager	Labs:
Data fabric	Administering Cloud Volumes ONTAP	Controlling cloud resources with CLI
Solutions for the hybrid cloud	Administering Cloud Manager	Controlling cloud resources with Powershell Toolkit
NetApp Public Cloud Products	Module 8: Implementing Disaster Recovery with NetApp Cloud Volumes ONTAP	Controlling NetApp ONTAP (On-Premises) Resources with NetApp Powershell Toolkit
Cloud Storage	Disaster Recovery with NetApp Cloud Volumes ONTAP Overview	Configuring Resources in AWS with AWS CloudFormation
Cloud Services and Analytics	Module 9: Data Tiering for NetApp Cloud Volumes ONTAP	Reviewing Resources in the AWS Console
Cloud Controls	Data Tiering for NetApp Cloud Volumes ONTAP Overview	Verifying Connectivity to the EC2 instances in Public and Private Subnets
Module 2: Public Cloud Essential Concepts	Module 10: Using NetApp Cloud Manager to Provision Persistent Storage for Kubernetes Clusters	Connecting AWS VPC to Your On-Premises Network
AWS Networking and Other Concepts	Using NetApp Cloud Manager to Provision persistent Storage for Kubernetes Clusters Overview	Configuring your On-Premises DNS and Domain Controller for your Amazon EC2 Instances
AWS Cloud Formation	Module 11: Using Integrated Services from NetApp Cloud Manager	Deploying a connector
Module 3: Connectivity from the Public Cloud to Other Networks	Using Cloud Backup Service from Cloud Manager	Deploying a Single-Node Cloud Volumes ONTAP Instance
Amazon Web Services Virtual Public Cloud Connectivity to an On-Premises Network	Using Cloud Sync from Cloud Manager	Accessing the SMB Share from an SMB Client
Module 4: NetApp Cloud Manager	Using Cloud Compliance from Cloud Manager	Creating an NFS Volume and Accessing It from an NFS Client
NetApp Cloud Manager Overview	Using Cloud Tiering Service from Cloud Manager	Deploying a Cloud Volumes ONTAP High-Availability Pair
Module 5: NetApp Cloud Volumes ONTAP: Single-Node Architecture	Module 12: Sizing NetApp Cloud Volumes ONTAP	Connecting an SMB Client from Within the Same VPC
Cloud Volumes ONTAP	An Introduction to Sizing	Performing Failover and Failback of the High-Availability Pair of Nodes
Cloud Volumes ONTAP Use Cases	Capacity Sizing	(Optional) Connecting an SMB Client from Outside the VPC Using a Transit Gateway
Cloud Volumes ONTAP Architecture		
Deploying Cloud Volumes ONTAP		
Cloud Volumes ONTAP Supported Features		

Module 6: NetApp Cloud Volumes ONTAP:
High-Availability Architecture

Highly Available Cloud Volumes ONTAP in
AWS

Performance Sizing

Single Node versus High Availability

Key Differences between Cloud Volumes
ONTAP and On-Premises ONTAP software

Performance Tuning

Frequently Seen Sizing Mistakes

Using Cloud Manager for Basic
Administration of Cloud Volumes ONTAP

Doing Basic Administration of Cloud Manager

Configuring and Managing Disaster Recovery
in the Data Fabric

Tiering Backup Data to Amazon Simple
Storage Service

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

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