

## ***ST197c-EN Integrating Hybrid Clouds with Amazon Web Services***

### **Kurzbeschreibung:**

Learn to implement a hybrid cloud solution with Amazon Web Services 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 and manage storage in the hybrid cloud. Learn about NetApp cloud services 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.

### **Zielgruppe:**

Administrators, Operators, Architects, Implementation Engineers

### **Voraussetzungen:**

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)

### **Sonstiges:**

**Dauer:** 3 Tage

**Preis:** 2700 Euro plus Mwst.

### **Ziele:**

- Describe how NetApp technologies can be used to build your data fabric
- Configure an AWS VPC and connect it to an on-premises data center with VPN Internet Protocol security (IPsec)
- Describe Cloud Volumes ONTAP architecture
- Install Cloud Manager Connector and deploy Cloud Volumes ONTAP
- Explain basic system administration tasks with Cloud Manager
- Copy data between NetApp ONTAP system and NetApp 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

## Inhalte/Agenda:

- Module 1: Data Fabric Overview
  - ◆ Lesson 1: Data Fabric
  - ◆ Lesson 2: Solutions for the Hybrid Cloud
  - ◆ Lesson 3: NetApp Public Cloud Products
  - ◆ Lesson 4: Cloud Storage
  - ◆ Lesson 5: Cloud Services and Analytics
  - ◆ Lesson 6: Cloud Controls
- Module 2: Public Cloud / Essential Concepts
  - ◆ Lesson 1: AWS Networking and Other Concepts
  - ◆ Lesson 2: AWS CloudFormation
- Module 3: Connectivity from the Public Cloud to Other Networks
  - ◆ Lesson 1: Amazon Web Services Virtual Public Cloud Connectivity to an On-Premises Network
- Module 4: NetApp Cloud Manager
  - ◆ Lesson 1: NetApp Cloud Manager Overview
- Module 5: NetApp Cloud Volumes ONTAP: Single-Node Architecture
  - ◆ Lesson 1: Cloud Volumes ONTAP
  - ◆ Lesson 2: Cloud Volumes ONTAP Use Cases
  - ◆ Lesson 3: Cloud Volumes ONTAP Architecture
  - ◆ Lesson 4: Deploying Cloud Volumes ONTAP
  - ◆ Lesson 5: Cloud Volumes ONTAP Supported Features
- Module 6: NetApp Cloud Volumes ONTAP: High-Availability Architecture
  - ◆ Lesson 1: Highly Available Cloud Volumes ONTAP in AWS
- Module 7: Administration of NetApp Cloud Volumes ONTAP and NetApp Cloud Manager
  - ◆ Lesson 1: Administering Cloud Volumes ONTAP
  - ◆ Lesson 2: Administering Cloud Manager
- Module 8: Implementing Disaster Recovery with NetApp Cloud Volumes ONTAP
  - ◆ Lesson 1: Disaster Recovery with NetApp Cloud Volumes ONTAP Overview
- Module 9: Data Tiering for NetApp Cloud Volumes ONTAP
  - ◆ Lesson 1: Data Tiering for NetApp Cloud Volumes ONTAP Overview
- Module 10: Using NetApp Cloud Manager to Provision Persistent Storage for Kubernetes Clusters
  - ◆ Lesson 1: Using NetApp Cloud Manager to Provision Persistent Storage for Kubernetes Clusters Overview
- Module 11: Using Integrated Services from NetApp Cloud Manager
  - ◆ Lesson 1: Using Cloud Backup Service from Cloud Manager
  - ◆ Lesson 2: Using Cloud Sync from Cloud Manager
  - ◆ Lesson 3: Using Cloud Compliance from Cloud Manager
  - ◆ Lesson 4: Using Cloud Tiering Service from Cloud Manager
- Module 12: Sizing NetApp Cloud Volumes ONTAP
  - ◆ Lesson 1: An Introduction to Sizing
  - ◆ Lesson 2: Capacity Sizing
  - ◆ Lesson 3: Performance Sizing
  - ◆ Lesson 4: Single Node versus High Availability
  - ◆ Lesson 5: Key Differences between Cloud Volumes ONTAP and On-Premises ONTAP Software
  - ◆ Lesson 6: Performance Tuning
  - ◆ Lesson 7: Frequently Seen Sizing Mistakes