VMware Cloud on AWS: Deploy and Manage

Duration: **3 Days**

Overview:

This three-day course teaches you skills for deploying and managing a VMware Cloud on AWS infrastructure. Through a mix of lecture and hands-on labs, you deploy and manage the VMware Cloud on AWS and VMware vSphere features that build a foundation for a hybrid infrastructure. You also discuss when and where these features have the greatest effect. Anyone planning to migrate, build, or hybridize with VMware Cloud on AWS can benefit from this course.

Pre-requisites:

This course requires completion of one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.7] course or of a later vSphere version.
- Equivalent knowledge and administration experience with VMware ESXiTM and VMware vCenter Server
- High-level understanding of vSAN and VMware NSX for vSphere

Audience:

- Experienced system administrators
- Systems engineers
- System integrators

Module 1: Course Introduction

Lessons:

- Introductions and course Logistics
- Course Objectives
- Identify additional resources for after this course
- Identify other VMware Education offerings

Module 2: Introduction to VMware Cloud on AWS

Lessons:

- Overview of AWS Architecture
- Overview of VMware Cloud on AWS
- Licensing, Pricing and Billing

Module 3: Deploying and SDDC

Lessons:

- AWS Account Creating and Management
- Deploy and Access an SDDC

Module 4: VMware Cloud on AWS: Storage

Lessons:

- VMware vSAN in VMware Cloud on AWS
- Using Amazon S3 with VMware Cloud on AWS
- Using Amazon EFS with VMware Cloud on AWS

Module 5: VMware Cloud on AWS: Networking

Lessons:

- Overview of VMware Cloud on AWS Networking
- Configure Management Gateway Networking
- Configure Compute Gateway Networking
- Inter-SDDC Networking

Module 6: Working with On-Premises VMware vSphere

Lessons:

- Operations with On-Premises vSphere
- Hybrid Linked Mode
- Hybrid Cloud Extension
- Using Content Library Files

Module 7: VMware Cloud on AWS Permissions and Security

Lessons:

- Understand VMware Cloud on AWS Permissions
- Configure VMware Cloud on AWS Permissions
- Security Hardening for VMware Cloud on AWS

Course Completion:

After completing this course, students will be able to:

- Understand the architecture of VMware Cloud on AWS
- Access and deploy a VMware Cloud on AWS SDDC
- Understand the difference between on-premises VMware vSAn and vSAN for VMware Cloud on AWS
- Understand and configure internal, external, and inter-SDDC networking
- Configure a connection between an on-premises vSphere SDDC and a VMware Cloud on AWS SDDC
- Understand how to right size a VMware Cloud on AWS SDDC
- Configure the scale-up and scale-down of a VMware Cloud on AWS SDDC
- Migrate virtual machines between on-premises and AWS SDDCs
- Create and configure virtual machines in VMware Cloud on AWS
- Understand options for connecting and utilising other AWS solutions with VMware Cloud on AWS
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- Understand and configure access and permissions for VMware Cloud on AWS
- Understand best practices for security hardening of a VMware Cloud on AWS SDDC
- Understand best practices for maintenance of a VMware Cloud on AWS SDDC
- Understand patching considerations, requirements, and best practices for VMware Cloud on AWS, especially when connected to an on-premises vSphere SDDC
- Understand how to access support, documentation, and diagnostic information for VMware Cloud on AWS

Module 8: Scaling the SDDC and Host Management

Lessons:

- Sizing the SDDC
- Cluster Management
- Add and remove hosts
- Host remediation

Module 9: Virtual Machine Management

Lessons:

- Create Virtual Machines
- Migrate Virtual Machines
- Configure Virtual Machines
- DRS, HA, and vSphere FT

Module 10: Working with other AWS Services

Lessons:

- Overview of AWS Services
- Integrations with AWS
- Using AWS Cloud Formation to deploy and SDDC

Module 11: Using Other VMware Products with the SDDC

Lessons:

- Site Recovery Add-on Service
- VMware Horizon
- VMware vRealize AutomationTM
- Using APIs and VMware vSphere PowerCLITM

Module 12: Maintaining and Troubleshooting VMware Cloud on AWS

Lessons:

- Best practice and Maintenance
- Support and Staying Up-to-Date
- Common Troubleshooting Steps