

# VMware Cloud on AWS: Deploy and Manage



**Days:** 3

**Description:** 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.

**Prerequisites:** This course requires completion of one of the following prerequisites:

- Understanding of concepts presented in the VM-VICM course or of a later vSphere version.
- Equivalent knowledge and administration experience with VMware ESXi™ and VMware vCenter Server®.
- High-level understanding of vSAN and VMware NSX® for vSphere®

**Audience:** Experienced system administrators, system engineers, and system integrators

**Course Objectives:** By the end of the course, you should be able to meet the following objectives:

- Understand the architecture of VMware Cloud on AWS
- Access and deploy a VMware Cloud on AWS SDDC
- Understand the differences 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 utilizing other AWS solutions with VMware Cloud on AWS
- Understand options for connecting and utilizing other VMware solutions with VMware Cloud on AWS
- 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
- Understand certain failure and troubleshooting scenarios for a VMware Cloud on AWS SDDC

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## OUTLINE:

### COURSE INTRODUCTION

- Introductions and course logistics
- Course objectives
- Identify additional resources for after this course
- Identify other VMware Education offerings

### INTRODUCTION TO VMWARE CLOUD ON AWS

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

### DEPLOYING AN SDDC

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

### VMWARE CLOUD ON AWS: STORAGE

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

### VMWARE CLOUD ON AWS VMWARE CLOUD ON AWS: NETWORKING

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

### WORKING WITH ON-PREMISES VMWARE VSPHERE

- Operations with On-Premises vSphere

- Hybrid Linked Mode
- Hybrid Cloud Extension
- Using Content Library Files

### VMWARE CLOUD ON AWS PERMISSIONS AND SECURITY

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

### SCALING THE SDDC AND HOST MANAGEMENT

- Sizing the SDDC
- Cluster Management
- Add and Remove Hosts
- Host Remediation

### VIRTUAL MACHINE MANAGEMENT

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

### WORKING WITH OTHER AWS SERVICES

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

### USING OTHER VMWARE PRODUCTS WITH THE SDDC

- Site Recovery Add-On Service
- VMware Horizon®
- VMware vRealize® Automation™
- Using APIs and VMware vSphere® PowerCLI™

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## MAINTAINING AND TROUBLESHOOTING VMWARE CLOUD ON AWS

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