VMware Cloud: Design, Configure, Manage

Course Objectives

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

- Recognize key concepts related to multi-cloud computing
- Describe the functional components of a VMware Cloud solution
- Identify VMware cross-cloud services
- Identify planning and design considerations for cloud SDDCs
- Configure network connectivity between clouds
- Describe hyperscaler networking considerations
- Configure VMware Cloud user access and permissions
- Configure workload mobility options such as VMware HCX®
- Manage workloads in the cloud SDDC
- Build a Kubernetes cluster
- Configure cloud business continuity and disaster recovery solutions
- Troubleshoot issues in the cloud SDDC

Course Overview

In this course, you learn about VMware Cloud™ and its capabilities for cloud computing and operations. You will explore the concepts of multi-cloud and the VMware Cloud Operating Model, which provides guiding principles for transforming an organization into a cloud business. Lessons cover the core tasks that you perform to build cloud infrastructure in the areas of networking, user access and security, workload management, workload mobility, modern applications, disaster recovery, and maintenance and troubleshooting.

Through use-case deployment scenarios, demonstration videos, simulations, and knowledge checks, you learn about how to plan and design your cloud software-designed data center (SDDC), including integrations with cloud hyperscalers such as AWS, Google, and Azure.

The course helps you to prepare for the VMware Certified Professional (VCP) - Multi-Cloud certification exam.

Target Audience

VMware Cloud: Design, Configure, Manage is for individuals who want to develop their understanding of and skills in multi-cloud computing. Target audience includes virtual infrastructure administrators and cloud administrators.

Prerequisites

- Familiarity with VMware multi-cloud solutions for managing IT data center infrastructure and cloud migration needs
- Experience managing VMware vSphere® and VMware NSX® and a working knowledge of VMware cross-cloud solutions
- Working knowledge of VMware cloud SDDCs on hyperscaler partners, including VMware Cloud on AWS, VMware Tanzu® Kubernetes Grid™, and VMware vSAN™
- Working knowledge of storage concepts, networking, availability, resiliency, monitoring, troubleshooting, security, governance, business continuity, and disaster recovery
- Familiar with managing virtual machine (VM) and container workloads, including use cases and Kubernetes constructs

Course Delivery Options

eLearning

Course Modules

1. Course Introduction
2. Cloud Computing and Operations
   - Describe the VMware multi-cloud vision
   - Explain the VMware Cloud Operating Model
   - Recognize VMware cross-cloud solutions
   - Identify VMware Cloud use cases
3. SDDC Planning and Design
   - Recognize components of the SDDC architecture for cloud hyperscalers such as AWS and Google
   - Deploy SDDCs for cloud hyperscalers
   - Identify requirements for the management components in a cloud SDDC
   - Identify key design considerations for cloud SDDCs
   - Describe requirements for on-premises cloud infrastructure
4. VMware Cloud Onboarding and Setup
   - Recognize how to onboard and set up SDDCs for cloud hyperscalers
5. SDDC Networking
   - Configure networking in VMware Cloud on AWS
   - Describe security options in a cloud SDDC
   - Configure network security in VMware Cloud on AWS
   - Recognize options for connecting on-premises data centers and cloud SDDCs
   - Monitor networks for cloud SDDCs
   - Configure advanced networking for VMware Cloud on AWS
6. Workload Management
   - Configure access to the cloud SDDC VMware vCenter Server® instance
   - Recognize resource management strategies for a VMware Cloud on AWS SDDC
   - Recognize best practices for using permissions in a VMware Cloud on AWS SDDC
   - Add roles and users to the vCenter Server instance in VMware Cloud on AWS
7. Modern Applications
   - Recognize concepts related to Kubernetes
   - Describe the functions of VMware Tanzu® products in Kubernetes lifecycle management
   - Recognize the steps in deploying a Tanzu Kubernetes cluster
8. Workload Mobility
   - Explain uses for Hybrid Linked Mode in VMware Cloud on AWS SDDCs
   - Set up Hybrid Linked Mode using the VMware Cloud Gateway Appliance
   - Describe cloud migration solutions
   - Deploy and configure VMware HCX appliances in a VMware Cloud on AWS SDDC
9. Disaster Recovery
   - Recognize backup solutions for VMs in VMware Cloud on AWS
   - Deploy and configure VMware Site Recovery™ on VMware Cloud on AWS
   - Configure VMware Cloud Disaster Recovery in a VMware Cloud on AWS SDDC
10. Maintenance and Troubleshooting
    - Recognize account management strategies for VMware Cloud on AWS
    - Recognize maintenance and troubleshooting responsibilities for VMware Cloud on AWS
    - Troubleshoot common problems that can occur in cloud SDDC operations

Contact

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