

## VMware Cloud: Deploy and Manage a vSphere Cloud - EDU-VCDM-OE

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### Course Summary

#### Description

In this course, you will explore the VMware technologies that allow you to deploy and manage your private on-premise cloud and securely connect to other clouds. You will learn about the newest features and enhancements in VMware vCenter Server 6.5, VMware ESXi 6.5, and VMware vSAN 6.5. You will learn about the configuration and use of the vRealize Automation platform, including self-service provisioning and the creation of catalog services that include predefined virtual machines and software components, and creating approval cycles and managing machine lifecycles to conserve resources. This course also details logical routing to enable you to dynamically route between different virtual environments, and you will learn how to use gateway services, firewall configurations, and security services to help secure and optimize your cloud environment with VMware NSX.

#### Topics

- :: Course Introduction
- :: New Features in vSphere 6.5 and vSAN 6.5
- :: vRealize Automation Overview and Architecture
- :: Authentication, Fabric and Tenants
- :: Converged Blueprints and Catalog Management
- :: Consuming Catalog Services
- :: Application Authoring
- :: Monitoring and Reclamation
- :: VMware NSX Logical Routing
- :: NSX Edge Gateway Services
- :: VMware NSX Firewall and Security Services

#### Audience

**This course is designed for Experienced system, network administrators and engineers or system integrators responsible for implementing a cloud infrastructure.**

#### Prerequisites

This course requires completion of one of the following prerequisites: Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.0] or VMware vSphere: Fast Track [V6.0] and VMware vSAN: Deploy and Manage [V6.2] course or equivalent knowledge and administration experience with VMware ESXi, VMware vCenter Server, and VMware vSAN. Experience working at the command line is helpful. The course material presumes that a student can perform the following tasks with no assistance or guidance before enrolling in this course:

- :: Install and configure VMware ESX/ESXi

## Course Outline

- :: Install vCenter Server
- :: Create vCenter Server objects, such as data centers and folders
- :: Create and manage vCenter Server roles and permissions
- :: Create and modify a standard switch
- :: Create and modify a distributed switch
- :: Connect an ESX/ESXi host to NAS, iSCSI, or Fibre Channel storage
- :: Create a VMware vSphere VMFS datastore
- :: Enable VMware vSphere vMotion on an ESX/ESXi host
- :: Use a wizard or a template to create a virtual machine
- :: Modify a virtual machine's hardware
- :: Migrate a virtual machine with vSphere vMotion
- :: Migrate a virtual machine with VMware vSphere Storage vMotion
- :: Configure and manage a VMware vSphere Distributed Resource Scheduler cluster with resource pools
- :: Configure and manage a VMware vSphere High Availability cluster
- :: Configure a Virtual SAN Cluster
- :: Deploy Virtual Machines onto a Virtual SAN datastore
- :: Understanding of enterprise switching and routing
- :: Knowledge of TCP/IP services
- :: Experience with firewalls and firewall rule sets
- :: Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course or VCA-DCV certification

### Duration

5 Days