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Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware vCloud Director: Install, Configure, Manage [V9.7]

CODE:	LENGTH:	PRICE:
VMW_VCICM9	40 Hours (5 days)	Request Price

Description

In this five-day course, you focus on installing, configuring, and managing VMware vCloud Director® for Service Providers 9.x. You learn about self-service provisioning, the creation of organizations, virtual data centers (VDCs), catalog services that include predefined virtual machines, and on-demand VMware NSX® networks.
This course also covers interfacing VMware vCloud Director® with other systems using various APIs and the integration and use of VMware vCloud® Availability for vCloud Director®. You will also understand how to manage multisite, cross-VDC networking for vCloud Director and configuring Central Point of Management (CPOM) to define a Software-defined Datacenter (SDDC) for tenant and provider users of vCloud Director. This course also discusses how to monitor various vCloud Director objects using VMware vRealize® OperationsTM, Tenant vApp, and VMware vRealize® Log InsightTM.

Objectives

By the end of the course, you should be able to meet the following objectives:• Deploy vCloud Director
• Manage vCloud Director to satisfy service provider needs
• Create and manage vCloud Director organizations and vApps to satisfy business needs
• Create and manage vCloud Director catalogs
• Transfer virtual machine workloads from VMware vSphere® into and out of vCloud Director
• Configure networking for organizations and vApps with the help of NSX
• Use NSX to create hybrid cloud connectivity between public clouds and private clouds
• Discuss various customer onboarding scenarios involving vCloud Director
• Configure the integration with VMware vCloud® Availability for vCloud Director®
• Use VMware vCloud® Availability for hybrid cloud setup and onboarding

Audience

Customers, cloud architects, systems engineers, data center administrators, and cloud administrators with experience in managed services or managing a service provider environment.

Prerequisites

PrerequisitesCompletion of the following course is required:
• VMware vSphere: Install, Configure, Manage [V6.x] or equivalent knowledge
Completion of the following eLearning courses is recommended: • VMware vCloud Director: Fundamentals [V8.x]
• VMware vSAN and HCI Fundamentals • VMware Network Virtualization Fundamentals
Substantial knowledge of TCP/IP networking is helpful.

Programme

1 Course Introduction • Introductions and course logistics• Course objectives 2 vCloud Director Deployment and Configuration
• Define Software Defined Datacenter• Discuss VMware offerings for Cloud-Based Services
• Understand the prerequisite to install vCloud Director • Discuss the deployment options for vCloud Director
• Differentiate different deployment options, benefits, and disadvantages • Discuss VMware Validated Design
3 vCloud Director Provider and Organization • Configure and manage provider VDCs
• Identify storage, compute, and network resources for vCloud Director
• Create and manage organizations, including vCloud Director organization VDCs • Discuss vCloud Director HTML5 UI
• Discuss HTML5-based Provider Portal and Tenant Portal 4 vCloud Director Organization VDC
• Organization VDC allocation models• Recognize resource allocations for an organization

• Describe the network types available in vCloud Director (external, organization, and vApp)
• Discuss the organization and vApp network traffic choices • Examine the function of network pools • Discuss Compute Profiles
5 vApps and Catalogs • Discuss the use of virtual machines• Design and manage vApps • Create and manage catalogs
• Manage vApp templates • Create and Manage vApp Networks • Discuss vApp Network Traffic Choices
6 Users and Role-based Access • Describe role-based access• Create custom security roles
• Describe and configure LDAP integration with Active Directory • Describe single sign-on • Enable a SAML identity provider
• Describe two-factor authentication • Discuss User bundle and role-based access control 7 vCloud Director Networking
• Describe the use and placement of NSX edge services gateways in relation to vCloud Director
• Review routing with the distributed logical router and edge services gateway in combination with vCloud Director
• Discuss edge services like NAT, DHCP, load balancer, and firewall • Discuss the architecture of VMware NSX-TTM
• Discuss vCloud Director supported features of NSX-T • Discuss Multisite • Configure Cross VDC Networking.
8 Resource Management and Monitoring • Manage provider and organization VDCs
• Manage VMware vCenter Server® instances and VMware ESXi™ hosts• Manage vSphere datastores
• Configure and manage resource pools at the vSphere level • Monitor usage information at provider and organization VDCs
• Analyze vCloud Director logs • Monitor vCloud Director environments with vRealize Operations Manager and vRealize Log Insight
• Managing billing and reports of vCloud Director objects using Tenant vApp 9 vCloud Extensibility
• Discuss Container Service Extension• Explore vCD CLI • Discuss Python SDK for vApp Deployment
• Discuss Terraform vCloud Director capabilities • Discuss VMware vRealize® OrchestratorTM Plug-in for vCloud Director
10 vCloud Director APIs • Describe access to vCD objects using REST API calls
• Describe tools to access the API of vCloud Director objects • Discuss different third-party API client tools
• Describe access to vCloud Director using Postman, Curl • Describe access to vCloud Director using OpenAPI
• Create and update metadata on objects • Access different vCloud Objects using vCloud API
11 Customer Onboarding and Hybrid Cloud • Discuss architecture for vCloud Availability for vCloud Director
• Review prerequisites of vCloud Availability for vCloud Director • Discuss implementation of vCloud Availability for vCloud Director
• Discuss vCloud Availability for vCloud Director portal • Review fail-over Virtual Machine options
• Discuss Virtual Machine replication to the Cloud • Discuss On-prem to Cloud migration 12 vCloud Director Troubleshooting
• Identify log locations for vCloud Director• Navigate through vCloud Director logs • Capture vCloud Director log bundles

Session Dates

On request. Please <u>Contact Us</u>

Additional Information

This training is also available as onsite training. Please contact us to find out more.