ΛRROW

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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

CODE:	LENGTH:	PRICE:
VM-VCD-ICM-V9.7	40 Hours (5 days)	$4,250.00

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® Operations™, Tenant vApp, and VMware vRealize® Log Insight™.
Product Alignment
• vCloud Director 9.x
• vCloud Availability for vCloud Director 3.0
• vSphere 6.x and later
• NSX 6.x and later

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

Completion 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

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

1 Course Introduction
- Introductions and course logistics
- Course objectives

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-T™
- 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® Orchestrator™ 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 Contact Us

Additional Information

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