

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

- 1 Course Introduction
 - Introductions and course logistics
 - Course objectives
- 2 Software-Defined Data Center
 - Describe the evolution of the software-defined data center
 - Cloud computing overview
 - Characteristics of cloud services
 - Categories of cloud computing
 - Describe the VMware product stack for the software-defined data center
- 3 vCloud Director Concepts
 - Explain vCloud Director concepts
 - Configure and manage provider VDCs
 - Identify storage, compute, and network resources for vCloud Director
 - Create and manage organizations
 - vCloud Director organization VDCs
- 4 Organization VDCs
 - 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
- 5 Virtual Machines and vApps
 - Discuss the use of virtual machines
 - Design and manage vApps
- 6 Catalogs
 - Create and manage catalogs
 - Manage vApp templates
- 7 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
- 8 Advanced 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 gateways in combination with vCloud Director
 - Firewall management in vCloud Director with edge services gateways and the distributed firewall
- 9 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 VMware vRealize® Operations Manager™ and VMware vRealize® Log Insight™
 - Use VMware vRealize® Business™ for cost management
- 10 Customer Onboarding and Hybrid Cloud
 - Tenant layer 2 VPN access

- Tenant SSL VPN access
- Review options for external connectivity with VPN
- Import existing infrastructure managed by vCenter Server into vCloud Director
- Use vCloud Director Extender for hybrid cloud setup and onboarding

11 vCloud Availability for vCloud Director

- Architecture for vCloud Availability for vCloud Director
- Prerequisites of vCloud Availability for vCloud Director
- Implementation of vCloud Availability for vCloud Director

12 vCloud Director Installation

- vCloud Director network, hardware, and software requirements
- vCloud Director setup overview
- vCloud Director cell design
- Install and configure the vCloud Director database (Microsoft SQL Server, Oracle database, or PostgreSQL)
- Create SSL certificates
- Configure VMware NSX® Manager™ for a new vCloud Director installation
- Install and configure an AMQP broker
- Download and install the VMware public key
- Use and set up vCloud Director federation

13 vCloud Director API and Metadata

- Describe tools to access the API of vCloud Director API
- Use of REST API in VMware vRealize® Orchestrator™
- Describe access to vCloud Director using VMware PowerCLI™
- Create and update metadata on objects