



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

9201 Dry Creek Rd. Centennial, CO 80112, United States

Email: arroweducationrequests@arrow.com
Phone: N/A



VMware vCloud NFV with vCloud Director [V8.x]

CODE:	LENGTH:	PRICE:
VM-VCNFV-WVCD-V8.X	40 Hours (5 days)	\$4,250.00

Description

In this five-day course, you will focus on configuring, managing, and operating VMware vCloud Director® 8.20 for a VMware vCloud® NFV™ environment. You will learn about self-service provisioning, the creation of organizations, virtual data centers (VDCs), and catalog services that include predefined virtual machines, and on-demand VMware NSX® networks, as well as the integrated use of VMware vSAN™.

Objectives

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

- Describe the vCloud NFV architecture
- Describe the vCloud Director architecture and its role as a Virtualized Infrastructure Manager (VIM)
- Secure deployment of multivendor virtualized network functions (VNFs) on the vCloud NFV platform
- Manage vCloud Director to support network functions virtualization (NFV) workloads in a secure multitenant environment
- Configure vSAN to enable multiple tiers in provider VDCs
- Create and manage vCloud Director organizations and VNF vApps to satisfy business needs
- Create and manage vCloud Director catalogs
- Use vCloud Director to configure basic and advanced NSX networking services

Audience

Service provider architects, engineers, and administrators with experience in a Telco and NFV environment

Prerequisites

Substantial knowledge of TCP/IP networking is helpful.

Program

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|-----------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------|
| 1 Course Introduction | 2 vCloud NFV | 4 Virtualized Infrastructure Manager |
| • Introductions and course logistics | • Describe the benefits of vCloud NFV | • Describe the VMware products for the VIM layer |
| • Course objectives | • Demonstrate what a vCloud NFV sample solution looks like | • Explain vCloud Director basic concepts |
| | • Describe the vCloud NFV architecture | • Create vSAN storage policies |
| 3 NFV Infrastructure | | • Describe the vCloud Director architecture |
| • Describe the NFV infrastructure (NFVI) components | | • Create resource pools |
| • Explain how vSphere interacts with CPUs, memory, networks, and storage | | • Create a basic vCloud Director instance |
| • Describe the vSAN architecture | | |
| • Describe network virtualization with NSX | | |
| 5 vCloud Providers | | |
| • Explain how compute and storage resources are provided to vCloud Director | | |
| • Describe provider VDC requirements and best practices | | |
| • Create provider VDCs | | |

6 vCloud Director Organizations

- Create and manage vCloud Director organizations
- Create and manage organization VDCs
- Configure and manage organization VDC networking
- Create and manage catalogs
- Deploy, manage, and access vApps

7 vCloud Networking with NSX

- Describe the basic NSX components
- Describe the network types available in vCloud Director (external, organization, vApp)
- Examine the function of network pools

8 Advanced Networking Services

- Describe VMware NSX® Edge™ services gateway features
- Describe advanced edge services gateway network functions
- Configure the edge services gateway for inbound and outbound network address translation
- Configure load balancing in a vApp
- Configure VPN services between organizations
- Configure dynamic routing on the edge services gateway
- Configure firewall services on the edge services gateway
- Configure the distributed firewall

10 Managing and Monitoring Cloud Resources

- Manage provider and organization VDCs
- Manage external networks and edge services gateways
- Manage vSphere resources

11 NFVI Operations Management (FCAPS)

- Describe the NFVI operations management components: VMware vRealize® Operations Manager™, VMware vRealize® Log Insight™, VMware vRealize® Network Insight™, VMware Site Recovery Manager™, and VMware vRealize® Orchestrator™

12 Day 2 vCloud NFV Operations

- Describe day 2 operations management considerations: VNF onboarding, carrier grade services, northbound APIs, and upgrading from vCloud Director 5.5 to version 8.x

9 vCloud Director Security

- Describe role-based access
- Create and manage security roles

Session Dates

On request. Please [Contact Us](#)

Additional Information

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