ΛRROW

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Du kan nå oss här

Kronborgsgränd 7, 164 46 Kista

Email: edu.ecs.se@arrow.com
Phone: +46 8 555 188 00

VMware vCloud NFV with vCloud Director [V9.7]

CODE:	LENGTH:	PRICE:
VMW_NFVVCD97	40 Hours (5 days)	kr46,000.00

Description

This five-day, hands-on training course discusses Network Functions Virtualization (NFV), a network architecture concept that specifies how virtualization technologies can be used to virtualize network service functions.
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 (Virtual Data Center) networking for vCloud Director and how to configure 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™

Objectives

By the end of the course, you should be able to meet the following objectives:
• Describe the VMware vCloud® NFV™ architecture
• Describe the vCloud Director architecture as Virtualized Infrastructure Manager (VIM)
• Secure the deployment of multivendor virtual network functions (VNFs) on the vCloud NFV platform
• Manage vCloud Director to support NFV workloads in a secure, multitenant environment
• Configure VMware vSAN™ to enable multiple tiers in provider virtual data centers
• Create and manage vCloud Director organizations and vApps to satisfy business needs
• Create and manage vCloud Director catalogs
• Use advanced services to manage VMware NSX® from vCloud Director

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 NFV Overview
1 Course Introduction
• Define the benefits of vCloud NFV
• Introductions and course logistics
• Describe a sample vCloud NFV solution
• Course objectives
• Describe the vCloud NFV architecture
3 NFV Infrastructure
• Compare physical and virtual infrastructures
• Describe the advantages and components of the NFV infrastructure (NFVI)
• Explain the role of network virtualization in the NFVI
• Compare physical and virtual infrastructures
• Describe the vSAN architecture and the differences between the vSAN hybrid and all-flash architectures
• Explain the purpose of virtual machine storage policies
• Describe network virtualization with NSX

4 Virtualized Infrastructure Manager (VIM)
- Describe the VMware products for the VIM layer
- Explain basic concepts related to vCloud Director
- Describe the relationship between provider VDCs (Virtual Data Centers) and organization VDCs
- Describe how vSAN integrates with vCloud Director
- Create vSAN storage policies
- Describe the components and basic configuration of the vCloud Director architecture
- Create resource pools

5 vCloud Providers
- Describe how compute and storage resources are provided to vCloud Director
- Describe provider VDC requirements and best practices
- Create provider VDCs
- Describe the VNF on-boarding process

6 vCloud Director Organizations
- Describe and create vCloud Director organizations
- Discuss vCloud Director HTML5 UI
- Discuss HTML5-based provider portal
- Discuss tenant portal
- Discuss the use cases of a vCloud Director organization VDC
- Discuss organization VDC allocation models
- Recognize resource allocations for an organization
- Examine the function and requirements of network pools.
- Describe the network types available in vCloud Director (external, organization, and vApp)
- Discuss the organization network types
- Create and manage organization VDC networks
- Add a catalog to an organization
- Populate, share, and publish catalogs
- Manage access to vApps and catalogs
- Modify the configuration of vApps and their virtual machines (VMs)
- Manage organization VDC networking
- Create affinity and anti-affinity rules

7 vCloud Director Security
- Describe role-based access
- Create custom security roles
- Integrate Directory Service with vCloud Director
- Integrate LDAP, SAML, SSL, Kerberos, and OAuth2 with vCloud Director
- Configure SSO

8 vCloud Director Networking
- Describe the use and placement of NSX® EdgeTM 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
- Architecture of VMware NSX-T™ (Basic)
- vCloud Director supported features of NSX-T
- Discuss multisite
- Configure Cross VDC networking

9 Resource Management and Monitoring
- Manage provider and organization VDCs
- Manage VMware vCenter Server® instances and VMware ESXi™ hosts
- Manage vSphere datastores
- Manage resource pools at the vSphere level
- Monitor usage information at provider and organization VDCs
- Use the cell management tool
- Manage provider VDC and Org-VDC
- Monitor vCloud Director environments with VMware vRealize® Operations Manager™
- Monitor vCloud Director environments with vRealize Log Insight
- Describe the components for NVFI operations management
- Use VMware vRealize® BusinessTM for cost management
- Review historical virtual machine metrics in vCloud Director
- View vCloud Director logs

10 vCloud Extensibility
- Introduce container service extension
- Explore vCloud Director CLI
- Use Python SDK for vApp deployment
- Discuss Terraform vCloud Director capabilities
- Use VMware vRealize® OrchestratorTM Plug-in for vCloud Director

11 Day 2 Operations
- Identify log locations for vCloud Director
- Navigate through vCloud Director logs

Session Dates

På begäran, kontakta oss

Ytterligare information

Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.