



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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Email: [training.ecs.fr@arrow.com](mailto:training.ecs.fr@arrow.com)  
Phone: 01 49 97 50 00

<b>CODE:</b>	<b>DURÉE:</b>	<b>PRIX H.T.:</b>
VMW_VCICM9	40 Hours (5 Jours)	€3,440.00

## 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™.

## Objectifs

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.

## Prérequis

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

- 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® 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

## Dates de session

Sur demande. [Merci de nous contacter](#)

## Informations Complémentaires

Cette formation est également disponible sous forme de formation sur site. [Veuillez nous contacter pour en savoir plus.](#)