

VMware vCloud Director-5.5 Administration Training

Course Content

Course Duration : **15 Working Days**

Class Duration : **3hours per day (Fast Track Course duration 7days “ Per day 8 hours “)**

Course Fee Details

Classroom Training: - ₹ **25000**

Fast-Track Training: - ₹ **30000** -----(For Classroom Training only)

Online Training: - ₹ **35000**

Note: - ★ ★ ★ **VMware vSphere-5.x L3 Administration Training is prerequisite for This course.** ★ ★ ★

□ Module 1: VMware vCloud Introduction

- What is Cloud Computing?
- Cloud Computing Overview
- What is vCloud Director?
- vCloud Director Overview
- How Cloud Computing Works
- VMware History
- vCloud Director 5.x Editions and licensing

□ Module 2: Architecture and Components Overview

- Discussion of virtualization and virtual infrastructure components
- Understand the concept of virtualization
- Identify the benefits of using vCloud Computing
- Describe vCloud Director components
- Describe scenarios for using Cloud Computing

□ Module 3: Configure & Manage VMware vSphere Resources for vCloud Director

- Hardware Prerequisites
- Software Prerequisites
- vSphere Prerequisites for Cloud
- Difference between vCloud 1.x & vCloud 5.x
- vCloud Maximums

❖ Preparing vSphere resource for vCloud

- Configuring vCenter Server instances
- Configuring ESXi hosts
- Configure VSS and vDS Networks at the vSphere level
- Configuring and manage Cluster at the vSphere level
- Configuring Resource pools at the vSphere level

❖ VMware vCloud Networking and Security Manager

- Installation prerequisites
- Installing vCloud Networking and Security Manager

❖ Securing the Data Center

- Securing the virtual data center
- Securing virtual networks

❖ VMware vCloud Networking and Security Edge

- Installing and configuring vCloud Networking and Security Edge
- Internal and uplink interfaces
- Configuring site-to-site IPsec VPNs
- Configuring SSL VPNs for remote access
- Configuring load-balancer services
- Configuring high-availability services

❑ Module 4: vCloud Director Installation & Configuration

- vCloud Hardware Prerequisites
- vCloud Software Prerequisites

❖ Creating a vCloud Director Server Group

- Install and Configure vCloud Director Software on the First Member of a Server Group
- Configure Network and Database Connections
- Install vCloud Director Software on Additional Members of a Server Group
- Install Microsoft Sysprep Files on the Servers
- Start or Stop vCloud Director Services
- Uninstall vCloud Director Software

❖ vCloud Director Setup

- Review the License Agreement
- Enter the License Key
- Create the System Administrator Account
- Specify System Settings
- System Administrator Password
- Ready to Log In to vCloud Director

❑ Module 5: Cell Management Tool Reference

❖ Cell Management Tool Reference

- Commands for Managing a Cell
- Commands for Exporting Database Tables
- Commands for Replacing SSL Certificates
- Commands for Generating Self-Signed SSL Certificates
- Recovering the System Administrator Password

❑ Module 6: VMware vCloud Networking

❖ VMware vCloud Networking and Security Manager

- Installation prerequisites
- Installing vCloud Networking and Security Manager

❖ VXLAN Networks

- Layer-2 connectivity and VLAN constraints
- VXLAN protocol
- IP encapsulation and multicast requirements
- Creating and connecting a VXLAN virtual wire
- Testing VXLAN virtual wire connectivity

❏ Module 7: Getting Started with vCloud Director

❖ Getting Started with vCloud Director

- Overview of vCloud Director features
- Overview of vCloud Director Administration
- Log In to the Web Console
- System Administrator Home Page
- Preparing the System
- Replace SSL Certificates
- Set User Preferences

❖ Adding Resources to vCloud Director

- Adding vSphere Resources
- Adding Cloud Resources

❖ Creating and Provisioning Organizations

- Understanding Leases
- Understanding Allocation Models
- Create an Organization
- Allocate Resources to an Organization

❏ Module 8: Managing Cloud Resources

❖ Managing Cloud Resources

- Managing Provider Virtual Datacenters
- Managing Organization Virtual Datacenters
- Managing External Networks
- Managing Edge Gateways
- Managing Organization Virtual Datacenter Networks
- Managing Network Pools
- Managing Cloud Cells
- Managing Service Offerings .

❖ Managing vSphere Resources

- Managing vSphere vCenter Servers
- Managing vSphere ESX/ESXi Hosts
- Managing vSphere Data stores
- Managing Stranded Items

❑ Module 9: Managing System Administrators

- Add a System Administrator
- Import a System Administrator
- Enable or Disable a System Administrator
- Delete a System Administrator
- Edit System Administrator Profile and Contact Information
- Send an Email Notification to Users
- Delete a System Administrator Who Lost Access to the System
- Import a Group
- Delete an LDAP Group
- View Group Properties
- Roles and Rights

❑ Module 10: Managing System Settings

- Modify General System Settings
- General System Settings
- Editing System Email Settings
- Configuring Blocking Tasks and Notifications
- Configuring the System LDAP Settings
- Customize the vCloud Director Client UI
- Configuring Public Addresses

❑ Module 11: vCloud Director predefined roles.

- ❖ Overview of predefined roles.
 - System Administrator
 - Organization Administrator
 - Catalog Author
 - vApp Author
 - vApp User
 - Console Access Only

❑ Module 12: Managing Organizations

- Enable or Disable an Organization
- Delete an Organization
- Add a Catalog to an Organization
- Editing Organization Properties
- Managing Organization Resources
- Managing Organization vApps and Virtual Machines

❑ Module 13: VMware vCloud Connector Administration

❖ Installing vCloud Connector

- vCloud Connector Editions
- vCloud Connector Overview
- Check System Requirements
- Deploy the vCloud Connector Virtual Appliances

❖ Installing & Configuring vCloud Connector Server

- Configure vCloud Connector Server
- Install vCloud Connector Nodes
- Register vCloud Connector Nodes with Clouds
- Configure vCloud Connector Nodes
- Register vCloud Connector Nodes with vCloud Connector Server
- Register the vCloud Connector UI
- Entering the License Key for vCloud Connector Advanced Edition
- Accessing Log Files for Multi-tenant Nodes
- About vCloud Connector Copy
- Selecting Copy Options
- Access vCloud Connector Using the vSphere Client

❖ Using & Managing vCloud Connector

- Get Information about a Template, Virtual Machine, or vApp
- Power On, Power Off, Suspend, Resume, or Reset a Virtual Machine or vApp
- Delete a Template, Virtual Machine, or vApp
- Access a Virtual Machine Console
- Copy a Template to a vSphere Cloud
- Copy a Template to a vCloud Director-based Cloud
- Copy a Virtual Machine or a vApp to a vSphere Cloud
- Copy a Virtual Machine or a vApp to a vCloud Director-based Cloud

❑ Module 14: Organizations Administration

- Understanding Leases
- Set Up an Organization
- Review Your Organization Profile
- Modify Your Email Settings
- Modify Your Organization's Policies
- Set Default Domain for Organization Virtual Machines
- Enable Your Organization to Use an SAML Identity Provider
- Install Java Cryptography Extension Unlimited Strength Jurisdiction Policy Files
- Manage Users and Groups in Your Organization
- Manage Resources in Your Organization
- Manage Virtual Machines in Your Organization
- Viewing Organization Log Tasks and Events

❑ Module 15: Organization Users

- Import Users and Groups
- Add Local Users to the Organization
- local organization administrator account
- Configure Email Preferences

❑ Module 16: Working with vApp Templates

❖ Working with vApp Templates

- Open a vApp Template
- Add a vApp Template to My Cloud
- Download a vApp Template
- Upload an OVF Package as a vApp Template
- Resume the Upload of a vApp Template
- Copy a vApp Template from a Public Catalog to an Organization Catalog
- Copy a vApp Template Between an Organization's Catalogs
- Move a vApp Template Between an Organization's Catalogs
- Delete a vApp Template
- Save a vApp as a vApp Template
- Modify vApp Properties
- Change the Guest OS Properties of a vApp Template

❑ Module 17: Working With Catalogs

- Add a New Catalog
- Access a Catalog
- Share A Catalog
- Publish a Catalog to an External Organization
- Change the Owner of a Catalog
- Delete a Catalog
- Change the Properties of Your Catalog
- Subscribe to an External Catalog Feed
- Understanding Catalogs and Their Contents
- Working in Published Catalogs

❑ Module 18: Working with vApps

❖ vApp Create & Deployment Administration

- Create a vApp From a vApp Template
- Import a Virtual Machine as a vApp
- Create a vApp From an OVF Package
- Download a vApp as an OVF Package
- Start - Stop - Suspend a vApp
- Discard the Suspended State of a vApp
- Reset a vApp or Virtual Machine
- View vApp Virtual Machines | Add a Virtual Machine to a vApp
- Import a Virtual Machine to a vApp from vSphere
- Remove Virtual Machines from a vApp
- Set vApp Start and Stop Options | Working with Networks in a vApp
- Editing vApp Properties | Display a vApp Diagram
- Change the Owner of a vApp | Upgrade the vHV for a vApp
- Save vApp as a vApp Template to Your Catalog
- Save a Powered-On vApp to your Catalog

❖ vApp Snapshot Management

- Create a Snapshot of a vApp
- Revert a vApp to a Snapshot
- Remove a Snapshot of a vApp

❖ vApp Data Management

- Copy a vApp to Another Virtual Datacenter
- Copy a Powered-On vApp
- Move a vApp to Another Virtual Datacenter
- Delete a vApp

❑ Module 19: Working with Virtual Machines

❖ Virtual Machines Power Management

- Open a Virtual Machine Console
- Power On a Virtual Machine
- Power Off a Virtual Machine
- Suspend – Resume Discard

❖ Virtual Machines Edit Settings

- Managing CD/DVD Drive
- Upgrade the Virtual Hardware Version for a Virtual Machine
- Connect Remotely to a Virtual Machine
- Creating & Managing Virtual Machine Snapshots
- Copy or Move a Virtual Machine to a vApp
- Delete a Virtual Machine | Editing Virtual Machine Properties
- Installing Guest Operating Systems
- Installing VMware Tools

❑ Module 20: Working with Media Files

- Upload Media Files
- Resume the Upload of a Media File
- Copy Media Files to a Catalog
- Move Media Files to Another Catalog
- Delete Media Files
- Modify Media File Properties

❑ Module 21: vCenter Chargeback Manager

❖ Introduction to vCenter Chargeback Manager

- What Is Chargeback
- Overview of vCenter Chargeback Manager
- System Requirements | Hardware Requirements | Software Requirements
- Pre-installation Checklist

❖ Install vCenter Chargeback Manager

- Install vCenter Chargeback Manager with an Existing Database Schema
- Generate an SSL Certificate for vCenter Chargeback Manager
- Services Related to the vCenter Chargeback Manager
- Accessing the vCenter Chargeback Manager
- Install vCenter Chargeback Manager Data Collector
- Install vCloud Director Data Collector
- Install vShield Manager Data Collector

❑ Module 22: Monitoring VMware vCloud Components

- Viewing Tasks and Events
- Monitor and Manage Blocking Tasks
- View Usage Information for a Provider Virtual Datacenter
- View Usage Information for an Organization Virtual Datacenter
- Using vCloud Director's JMX Service
- Viewing the vCloud Director Logs
- vCloud Director and Cost Reporting

❑ **This Course Specially designed for Mastering of vCloud Administration**

❖ **Terms & Conditions**

❖ He/She must have VMware vSphere-5.x L3 Administration Knowledge.

❑ **Target Audience**

- System administrators of (Windows, Linux, Unix, MAC ...etc.)
- Systems engineers
- Storage administrators
- Network administrators
- Network Security administrators ...etc.

❑ The course content can be changed as per the technology with or without prior notice.

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