

[VMHVICMV7.10]: VMware Horizon [V7]: Install, Configure, Manage [V7.10]

Length : 5 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This five-day, hands-on course gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. This course builds your skills in installing, configuring, and managing VMware Horizon® 7 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines, how to manage the access and security of the machines, and how to provide a customized desktop environment to end users.

Product Alignment

- VMware Horizon 7.10
- VMware User Environment Manager 9.10
- App Volumes Manager 4.0

Audience Profile

Technical personnel who work in the IT departments of end-customer companies and people who are responsible for the delivery of remote or virtual desktop services

At Course Completion

- Identify VMware Horizon components
- Install and configure View Connection Server
- Install and configure virtual desktops
- Configure and manage VMware Horizon® Client™ systems
- Configure and manage pools of physical and virtual machines
- Configure and manage automated pools of full virtual machines
- Configure and manage pools of linked-clone desktops
- Configure and manage automated pools of instant clones
- Configure and manage Remote Desktop Services (RDS) pools of desktops and applications
- Use Horizon Administrator to configure the VMware Horizon environment
- Configure secure access to virtual desktops
- Use VMware User Environment Manager™ to manage user personalization and application configurations
- Describe steps to deploy profile management

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- Use VMware App Volumes™ to provision and manage applications
- Identify the benefits of JMP architecture
- Manage the performance and scalability of a VMware Horizon deployment

Pre-Requisites

Customers attending this course should have at a minimum the following VMware infrastructure skills:

- Use VMware vSphere® Web Client to view the state of virtual machines, datastores, and networks
- Open a virtual machine console on VMware vCenter Server® and access the guest operating system
- Create snapshots of virtual machines
- Configure guest customization specifications
- Modify virtual machine properties
- Convert a virtual machine into a template
- Deploy a virtual machine from a template

Attendees should have at a minimum the following Microsoft Windows system administration experience:

- Configure Active Directory™ services, including DNS, DHCP, and time synchronization
- Restrict user activities by implementing Group Policy objects
- Configure Windows systems to enable Remote Desktop Connections
- Build an ODBC connection to an SQL Server database

Course Outline

Module 1: Course Introduction

Lessons

- Introductions and course logistics
- Course objectives

Module 2: Introduction to VMware Horizon

Lessons

- Introduction to VMware Horizon
- Recognize the features and benefits of VMware Horizon
- Describe the conceptual and logical architecture of VMware Horizon
- Define a use case for your virtual desktop and application infrastructure
- Convert customer requirements to use case attributes

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Module 3: Horizon Connection Server**Lessons**

- Recognize VMware Horizon reference architecture
- Identify the recommended system requirements for Horizon Connection Server
- Identify the recommended virtualization requirements for a Horizon® Connection Server™ instance

Module 4: VMware Horizon Desktops**Lessons**

- Outline the process and choices to set up Windows VMware Horizon VMs
- Assign vCPUs and RAM to Windows VMs
- Create Windows VMs
- Configure VMware ESXi™ host virtual switches
- Optimize the performance of Windows VMs

Module 5: VMware Horizon Pools**Lessons**

- Identify the steps to set up a template for desktop pool deployment
- List the steps to add desktops to the Horizon Connection Server inventory
- Define user entitlement

Module 6: VMware Horizon Client Options**Lessons**

- Describe the requirements for a Horizon Client installation on a Windows system
- Explain USB redirection and options
- Describe the shared folders option
- Describe the different clients and their benefits

Module 7: Creating Automated Desktop Pools**Lessons**

- Describe how an automated pool operates
- Compare dedicated-assignment and floating assignment pools
- Outline the steps to create an automated pool

Module 8: Configuring and Managing Linked-Clone Desktop Pools**Lessons**

- Describe VMware linked-clone technology
- Explain why both a parent VM and a snapshot must be used to create linked clones
- Outline the system requirements for View Composer

Module 9: Creating and Managing Instant-Clone Desktop Pools**Lessons**

- Describe instant clones
- List the advantages of instant clones
- Differentiate between View Composer linked clones and instant clones

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Module 10: VMware Horizon Authentication and Certificates**Lessons**

- Compare the authentication options that Horizon Connection Server supports

Module 11: Managing VMware Horizon Security**Lessons**

- Compare tunnels and direct connections for client access to desktops
- Identify the benefits of using VMware Unified Access Gateway™ in the DMZ
- Identify the tunnel endpoints when the security gateway is not used
- Describe a direct connection in a VMware Horizon environment
- List the advantages of direct connections
- Describe how direct connections are enabled

Module 12: Profile Management Using Dynamic Environment Manager**Lessons**

- Identify the VMware Dynamic Environment Manager functional areas and their benefits
- Prepare infrastructure for VMware Dynamic Environment Manager
- Outline the steps that are required to install and configure VMware Dynamic Environment Manager components
- Manage user personalization and application configurations using the VMware Dynamic Environment Manager management console and application profiler

Module 13: Creating RDS Desktop and Application Pools**Lessons**

- Explain the difference between an RDS Desktop pool and an automated pool
- Access a single application by using the RDS Application pool
- Compare and contrast an RD Session Host pool, a farm, and an application pool
- Create an RDS Desktop pool and an application pool

Module 14: Provisioning and Managing Application Using App Volumes**Lessons**

- Explain how App Volumes works
- Identify the features and benefits of App Volumes
- Identify the interface elements of App Volumes
- Install and configure App Volumes

Module 15: Just-in-Time Management Platform and VMware Horizon**Lessons**

- Identify the benefits of Just-in-Time Management Platform (JMP)
- List the JMP and Horizon 7 components
- Install and configure a JMP server
- Identify App Volumes deployment considerations
- Identify VMware Dynamic Environment Manager deployment considerations

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Module 16: Command-Line Tools and Backup Options**Lessons**

- Describe key Horizon Connection Server features that are available as command-line options with the vdmadmin command
- Explain the purpose of kiosk mode for client systems and how it is configured
- Explain why you limit the domains that Horizon Connection Server displays to users as they attempt to authenticate
- Identify the log locations for each VMware Horizon component
- Collect Horizon Client and Horizon Agent log files

Module 17: VMware Horizon Performance and Scalability**Lessons**

- Describe the purpose of a replica connection server
- Compare a replica server to a standard connection server
- Explain how multiple Horizon Connection Server instances in a pod maintain synchronization
- List several best practices for multiserver deployment in a pod
- Describe how a load-balancing capability might improve VMware Horizon performance

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