

VMware Horizon ICM 7: Install, Configure, Manage

Course Summary

Description

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 will learn how to configure and deploy pools of virtual machines, how to manage access and security of the machines, and how to provide a customized desktop environment to end users.

Objectives

At the end of this course, students will be able to:

- Identify VMware Horizon components
- Install and configure View Connection Server
- Install and configure virtual desktops
- Configure and manage VMware HorizonClient 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
- Use VMware App Volumes to provision and manage applications
- Manage the performance and scalability of a VMware Horizon deployment

Topics

- Course Introduction
- Introduction to VMware Horizon
- View Connection Server
- VMware Horizon Pools and Desktops
- Horizon Client Options
- Creating Automated Pools of Full Virtual Machines
- Creating and Managing Linked-Clone Desktops
- Creating and Managing Instant-Clone Pools

Audience

This course is designed for 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.

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Course Summary (cont'd)

Prerequisites

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 also have the following Microsoft Windows system administration experience:

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

Duration

Five days

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Course Outline

- I. Course Introduction**
 - A. Review course goals
 - B. Review course objectives
 - C. Review the course outline
 - D. Find additional resources after this course
 - E. Discuss the benefits of Virtual Printing
 - F. Explain the Virtual Printing architecture
 - G. Describe the configuration options for Virtual Printing
 - H. Explain the location-based printing feature
- II. Introduction to VMware Horizon**
 - A. Recognize the features and benefits of VMware Horizon
 - B. Identify the major function of each VMware Horizon component
 - C. Define a use case for your virtual desktop and application infrastructure
- III. View Connection Server**
 - A. Identify the VMware vSphere requirements for a connection server
 - B. Describe the network and firewall configurations for View Connection Server
 - C. License VMware Horizon components
 - D. Configure View Connection Server
- IV. VMware Horizon Pools and Desktops**
 - A. Outline the process and choices in setting up VMware Horizon 7 virtual machines
 - B. Compare the remote display protocols that are available in VMware Horizon
 - C. List the ports that must be opened in the machine's firewall for VMware Horizon operations
 - D. Outline the configuration choices when installing Horizon Agent
 - E. Identify the steps to set up a template for desktop pool deployment
 - F. Describe how information on the Users and Groups page can be used to control and monitor View users
 - G. Explain the hierarchy of global policies, pool-level policies, and user-level policies
 - H. List the View Group Policy administrative (ADM) template files
- V. Horizon Client Options**
 - A. Describe the requirements for a Horizon Client installation
 - B. Explain USB redirection and options
 - C. Describe the power states for desktops
 - D. Define and compare a thin client with a system running Horizon Client
- VI. Creating Automated Pools of Full Virtual Machines**
 - A. Recognize how an automated pool operates
 - B. Compare dedicated-assignment and floating-assignment pools
 - C. Outline the steps to create an automated pool
 - D. Examine the entitlement of desktops in automated pools
- VII. Creating and Managing Linked-Clone Desktops**
 - A. Describe the VMware linked-clone technology
 - B. Explain why both a parent virtual machine and a snapshot must be used to create linked clones
 - C. Outline the system requirements for View Composer
 - D. Describe the relationship between a persistent disk and the system disk
 - E. Outline the steps necessary to set up an automated desktop pool that uses linked clones
 - F. Compare the purpose of the parent and the replica virtual machines
 - G. Compare the linked-clone management operations
 - H. Describe the management operations for persistent disks
- VIII. Creating and Managing Instant-Clone Pools**
 - A. Identify the advantages of instant clones
 - B. Distinguish View Composer clones from instant clones
 - C. Identify the requirements of instant clones
 - D. Describe the types of instant-clone virtual machines
 - E. Explain how folders are used to delegate pool administration
 - F. Outline the steps to set up an automated pool that uses instant clones