

VMware Horizon® 7 - Install, Configure, Manage V7.7

Course Overview

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This is a 5-day class

This course gives students 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. Students will 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.

Who Should Attend

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.

Course Objectives

By the end of the course, students should be able to meet the following objectives:

- 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
- 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

Course Outline

1 COURSE INTRODUCTION

- Introductions and course logistics
- Course objectives
- Describe the software-defined data center

2 INTRODUCTION TO VMWARE HORIZON

- Recognize the features and benefits of VMware Horizon
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure



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3 VIEW CONNECTION SERVER

- Identify the VMware vSphere® requirements for a connection server
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
- Configure View Connection Server
- Monitor the VMware Horizon environment using the dashboard
- Use the VMware Horizon Helpdesk tool to troubleshoot VMware Horizon

4 VMWARE HORIZON DESKTOPS

- Outline the process and choices in setting up VMware Horizon virtual machines
- Compare the remote display protocols that are available in VMware Horizon
- List the ports that must be opened in the machine's firewall for VMware Horizon operations
- Outline the configuration choices when installing Horizon Agent

5 VMWARE HORIZON DESKTOP POOLS

- Identify the steps to set up a template for desktop pool deployment
- List the steps to add desktops to the View Connection Server inventory
- Define desktop entitlement
- Describe how information on the Users and Groups page can be used to control and monitor View users
- Explain the hierarchy of global policies, pool-level policies, and user-level policies
- List the View Group Policy administrative template files

6 HORIZON CLIENT OPTIONS

- Enlist the requirements for a Horizon Client installation
- Install Horizon Client and connect to a virtual desktop
- Explain USB redirection and options
- Define and compare a thin client with a system running Horizon Client
- Use Virtual Printing for location-based printing

7 CREATING AUTOMATED POOLS OF FULL VIRTUAL MACHINES

- Recognize how an automated pool operates
- Compare dedicated-assignment and floating-assignment pools
- Outline the steps to create an automated pool
- Examine the entitlement of desktops in automated pools

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8 CREATING AND MANAGING LINKED-CLONE DESKTOP POOLS

Describe the VMware linked-clone technology
Enlist the system requirements for View Composer
Describe the relationship between a persistent disk and the system disk
Outline the steps necessary to set up a desktop pool that uses linked clones
Compare the purpose of the parent and the replica virtual machines
Compare the linked-clone management operations
Describe the management operations for persistent disks

9 CREATING AND MANAGING INSTANT-CLONE DESKTOP POOLS

Identify the advantages of instant clones
Distinguish View Composer clones from instant clones
Identify the types of instant-clone virtual machines
Enlist the requirements of instant clones
Outline the steps to set up an automated pool that uses instant clones
Set up an automated pool of instant clones

10 VMWARE HORIZON AUTHENTICATION

Compare the authentication options that View Connection Server supports
Explain the purpose of roles and privileges in VMware Horizon
Outline the steps to create a VMware Horizon administrator and a custom role
List some of the best practices for configuring VMware Horizon administrators
Configure Horizon Server to use a new TLS Certificate

11 MANAGING VMWARE HORIZON SECURITY

Compare tunnels and direct connections for client access to desktops
Compare the benefits of using VMware Unified Access Gateway™ in the DMZ
List the advantages of direct connections
Discuss the benefits of using Unified Access Gateway
List the two-factor authentication options that are supported by Unified Access Gateway
Configure a Unified Access Gateway Appliance

12 PROFILE MANAGEMENT USING USER ENVIRONMENT MANAGER

Identify the User Environment Manager functional areas and their benefits
List User Environment Manager components
Describe User Environment Manager and its architecture
Install User Environment Manager
Describe User Environment Manager smart policies

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13 CREATING RDS DESKTOP AND APPLICATION POOLS

Explain the difference between an RDS desktop pool and an automated pool
Describe how a user can access a single application by using the RDS application pool
Describe the relationship between an RDS host, a farm, and an application pool
Create an RDS desktop pool and an application pool
Use View Composer and Instant Clone to automate the build-out of RDSH farms
Describe the default and alternative load-balancing feature for RDS hosts that optimizes placement of sessions

14 USING APP VOLUMES TO PROVISION AND MANAGE APPLICATIONS

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

15 JMP AND HORIZON 7 OVERVIEW

Identify the benefits of JMP
Enlist the JMP and Horizon 7 components
Identify JMP deployment considerations
Install and configure JMP Server

16 COMMAND-LINE TOOLS AND BACKUP OPTIONS

Describe key View 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
Identify the log locations for each VMware Horizon component
Describe the backup options for VMware Horizon databases

17 VMWARE HORIZON PERFORMANCE AND SCALABILITY

Describe the purpose of a replica server
List several best practices for multiserver deployment in a pod
Describe the benefits of the Cloud Pod Architecture feature for large-scale VMware Horizon deployments
Explain how global entitlements can benefit a single-pod environment