Hewlett Packard Enterprise

VMware Horizon 7: Install, Configure, Manage [V7.7] H9TF0S

HPE course number	H9TF0S
Course length	5 Days
Delivery mode	ILT, VILT
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Why HPE Education Services?

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This 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 the access and security of the machines, and how to provide a customized desktop environment to end users.

Audience

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

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 enable Remote Desktop Connections
- Build an ODBC connection to an SQL Server database

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, October 2017

Course objectives

By the end of the course, you 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
- Manage the performance and scalability of a VMware Horizon deployment

Certifications and related examinations

This course prepares you for the following certification:

- VMware Certified Professional 7 – Desktop and Mobility (VCP7-DTM)

Detailed course outline

Module 1: Course Introduction	• Introductions and course logistics • Course objectives	• Describe the software-defined data center
Module 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
Module 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
Module 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
Module 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
Module 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
Module 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
Module 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
Module 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

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
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
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
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
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
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
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
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

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