

VMware Horizon 7: Skills for Public Sector Administrators [V7]

Code:	EDU-HSPSA7
Length:	5 days
URL:	View Online

This five-day, standard-hours 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 and how to manage access and security of the machines. You will also gain skills in application management using VMware App Volumes™ and VMware User Environment Manager™. You will learn how to use App Volumes to deliver applications and data to desktops and users in seconds and how to manage application lifecycles from installation to update and replacement. You will also learn how to use User Environment Manager to provide personalization and dynamic policy configuration across virtual, physical, and cloud-based environments to simplify end-user profile management.

Skills Gained

- 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
- Manage the performance and scalability of a VMware Horizon deployment
- Describe the features and functions of App Volumes and User Environment Manager
- Install and configure App Volumes
- Create and deploy AppStacks and writable volumes
- Manage application configurations, user environment settings, and personalization settings

Who Can Benefit

Experienced system administrators and system integrators responsible for implementing desktop solutions

Prerequisites

- 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
- Modify virtual machine properties
- Convert a virtual machine into a template
- Configure Active Directory services, including DNS, DHCP, and time synchronization
- System administration experience on Microsoft Windows or Linux operating systems

Course Details

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

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

VMware Horizon Pools and Desktops

- Outline the process and choices in setting up VMware Horizon 7 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 with installing Horizon Agent

Horizon Client Options

- Describe the requirements for a Horizon Clients installation
- Explain USB redirection and options
- Describe the power states for desktops
- Describe the configuration options for Virtual Printing

Creating Automated Pools

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

Configuring and Managing Linked-Clone Desktop Pools

- Describe the VMware linked-clone technology
- Explain why both a parent virtual machine and a snapshot must be used to create linked clones
- Outline the system requirements for View Composer
- Setup an automated desktop pool that uses linked clones

Creating and Managing Instant-Clone Desktop Pools

- Identify the advantages of instant clones
- Identify the requirements of instant clones
- Describe the types of instant-clone virtual machines
- Outline the steps to set up an automated pool that uses instant clones

Creating RDS Desktop and Application Pools

- Describe how a user can access a single application by using the RDS application pool
- Create an RDS desktop pool and an application pool
- Explain how the View Composer linked-clone technology can automate the build-out of RDS server farms and load balance

VMware Horizon 7 Authentication

- Compare the authentication options that View Connection Server supports
- Describe the purpose of TrueSSO single sign-on
- Identify TrueSSO single sign-on components

Managing VMware Horizon Security

- Compare tunnels and direct connections for client access to desktops
- Compare the benefits of using either VMware Horizon Security Server or Access Point in the DMZ
- Identify where the tunnel endpoints are in a security server or an Access Point implementation
- Identify the tunnel endpoints when the security gateway is not used
- Explain a direct connection
- List the advantages of direct connections

Profile Management Using User Environment Manager

- Identify the use cases and benefits of using User Environment Manager
- Describe User Environment Manager and its architecture
- Explain the User Environment Manager functional areas and their benefits
- Explain User Environment Manager profile management and its features
- Use the User Environment Manager management console and application profiler to manage user personalization and application configurations

Command-line Tools and Backup Options

- 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

VMware Horizon Performance and Scalability

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

Overview of App Volumes Enterprise

- App Volumes
- User Environment Manager
- VMware ThinApp®

Overview of App Volumes

- Features and benefits
- Scalability and limitations
- Storage group distribution strategies
- App Volumes components

Installation of App Volumes

- Infrastructure and system requirements
- Installing and configuring App Volumes Manager
- Installing the App Volumes agent

Working with AppStacks

- Creating and provisioning AppStacks
- Managing and updating AppStacks
- Using AppStacks in virtual desktops
- Using AppStacks in a Remote Desktop Services host
- Best practices for AppStacks