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## Horizon 7: Install, Configure, Manage

**Duration: 5 Days    Course Code: VMHICM**

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### 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 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.

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### Target 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

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### 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
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### 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

### Testing and Certification

This course prepares you for the following certification:

- [VMware Certified Professional 7 – Desktop and Mobility \(VCP7-DTM\)](#)

- Configure Windows systems to allow Remote Desktop Connections
  - Build an ODBC connection to an SQL Server database
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## Content:

### 1. Course Introduction

#### ■ Review course goals

- Review course objectives
- Review the course outline
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
- Configure View Connection Server
- 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
- 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 (ADM) template files
- Explain USB redirection and options
- Describe the power states for desktops
- Define and compare a thin client with a system running Horizon Client
- Discuss the benefits of Virtual Printing
- Explain the Virtual Printing architecture
- Describe the configuration options for Virtual Printing
- Explain the location-based printing feature
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## 7. Creating Automated Pools of Full Virtual Machines

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Find additional resources after this course

## 2. Introduction to VMware Horizon

- Recognize the features and benefits of VMware Horizon

- Review course objectives
- Review the course outline

- Compare the purpose of the parent and the replica virtual machines
- Compare the linked-clone management operations
- Describe the management operations for persistent disks
- Distinguish View Composer clones from instant clones
- Identify the requirements of instant clones
- Describe the types of instant-clone virtual machines
- Explain how folders are used to delegate pool administration
- Outline the steps to set up an automated pool that uses instant clones
- Describe instant-clone limitations in VMware Horizon
- Describe the creation of instant clones
- Set up an automated pool of instant clones
- Describe the purpose and components of TrueSSO single sign-on
- Compare the benefits of using either the VMware Horizon security server or VMware Access Point™ in the DMZ
- Identify where the tunnel endpoints are in a security server or an Access Point implementation
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- Explain USB redirection and options
- Describe the power states for desktops
- Define and compare a thin client with a system running Horizon Client
- Discuss the benefits of Virtual Printing
- Explain the Virtual Printing architecture
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## 12. Profile Management Using User Environment Manager

- Identify the use cases and benefits of using User Environment Manager
- 
- Review course objectives
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  - Identify the major function of each VMware Horizon component
  - Define a use case for your virtual desktop and application infrastructure
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## 8. Creating and Managing Linked-Clone Desktop Pools

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## Environment Management

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## 13. Creating RDS Desktop and Application Pools

- Explain the difference between an RDS desktop pool and an automated pool
- Review course objectives
- Review the course outline
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
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#### 4. VMware Horizon Desktops

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- Review the course outline
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## Printing

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- Explain how folders are used to delegate pool administration
- Outline the steps to set up an automated pool that uses instant clones
- Describe instant-clone limitations in VMware Horizon
- Describe the creation of instant clones
- Set up an automated pool of instant clones
- Describe the purpose and components of TrueSSO single sign-on
- Compare the benefits of using either the VMware Horizon security server or VMware 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
- Preparing infrastructure for User Environment Management
- Outline the steps that are required to install and configure User Environment Manage components
- Use the User Environment Manage management console and application profiler to manage user personalization and application configurations
- Describe how a user can access a single application by using the RDS application pool



- build-out of RDS server farms
- Describe the load-balancing options for RDS hosts
- Identify the features and benefits of App Volumes
- Identify the interface elements of App Volumes
- Install and configure App Volumes
- Explain the purpose of kiosk mode for client systems and how it is configured
- Explain why you might want to limit the domains that View Connection Server makes available to end users
- Identify the log locations for each VMware Horizon component
- 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

## 5. VMware Horizon Desktop Pools

- Identify the steps to set up a template for desktop pool deployment
- Review course objectives
- Review the course outline
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
- Configure View Connection Server
- 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
- 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 (ADM) template files
- Explain USB redirection and options
- Describe the power states for desktops
- Define and compare a thin client with a system running Horizon Client
- Discuss the benefits of Virtual Printing

- Explain why both a parent virtual machine and a snapshot must be used to create linked clones
- Outline 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
- Distinguish View Composer clones from instant clones
- Identify the requirements of instant clones
- Describe the types of instant-clone virtual machines
- Explain how folders are used to delegate pool administration
- Outline the steps to set up an automated pool that uses instant clones
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- Set up an automated pool of instant clones
- Describe the purpose and components of TrueSSO single sign-on
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- Outline the steps that are required to install and configure User Environment Manage components
- Use the User Environment Manage management console and application profiler to manage user personalization and application configurations
- 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
- Explain how the View Composer linked-clone technology can automate the build-out of RDS server farms
- Describe the load-balancing options for RDS hosts
- Identify the features and benefits of App Volumes

- Describe the relationship between an RDS host, a farm, and an application pool
- Create an RDS desktop pool and an application pool
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- Explain the Virtual Printing architecture

- Explain the Virtual Printing architecture
- Describe the configuration options for Virtual Printing
- Explain the location-based printing feature
- Compare dedicated-assignment and floating-assignment pools
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- Outline the steps that are required to install and configure User Environment Management components
- Use the User Environment Management console and application profiler to manage user personalization and application configurations
- 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

- Identify the interface elements of App Volumes
- Install and configure App Volumes
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## 9. Creating and Managing Instant-Clone Desktop Pools

- Identify the advantages of instant clones
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- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
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- 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
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- Describe the purpose and components of TrueSSO single sign-on
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- Describe the relationship between an RDS host, a farm, and an application pool
- Create an RDS desktop pool and an application pool
- Explain how the View Composer

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- List several best practices for multiserver deployment in a pod
- Describe how a load-balancing capability might improve VMware Horizon performance

#### 14. Using App Volumes to Provision and Manage Applications

- Explain how App Volumes works
- Review course objectives
- Review the course outline
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
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- Compare the remote display protocols that are available in VMware Horizon
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- Describe the power states for desktops
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- Discuss the benefits of Virtual Printing
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- Outline the steps to create an automated pool
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## Volumes

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## Volumes

- Identify the interface elements of App Volumes
- Install and configure App Volumes
- Explain the purpose of kiosk mode for client systems and how it is configured
- Explain why you might want to limit the domains that View Connection Server makes available to end users
- Identify the log locations for each VMware Horizon component
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- 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
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## 6. Horizon Client Options

- Describe the requirements for a Horizon Client installation

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- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
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- Compare the remote display protocols that are available in VMware Horizon
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- Explain the Virtual Printing architecture
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- Compare dedicated-assignment and floating-assignment pools
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- Outline the system requirements for View Composer
- Describe the relationship between a persistent disk and the system disk
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- Distinguish View Composer clones from instant clones
- Identify the requirements of instant clones
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- Outline the steps to set up an automated pool that uses instant clones
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- Outline the steps to create an automated pool
- Examine the entitlement of desktops in automated pools
- Explain why both a parent virtual machine and a snapshot must be used to create linked clones
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## 16. VMware Horizon Performance and Scalability

- Describe the purpose of a replica server
- Review course objectives
- Review the course outline
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
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## 10. VMware Horizon Authentication

- Compare the authentication options that View Connection Server supports
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## 11. Managing VMware Horizon Security

- Compare tunnels and direct connections for client access to desktops
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- 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 (ADM) template files
- Explain USB redirection and options
- Describe the power states for desktops
- Define and compare a thin client with a system running Horizon Client
- Discuss the benefits of Virtual Printing
- Explain the Virtual Printing architecture
- Describe the configuration options for Virtual Printing
- Explain the location-based printing feature
- Compare dedicated-assignment and floating-assignment pools
- Outline the steps to create an automated pool
- Examine the entitlement of desktops in automated pools
- Explain why both a parent virtual machine and a snapshot must be used to create linked clones
- Outline 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
- Distinguish View Composer clones from instant clones
- Identify the requirements of instant clones
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- Explain how folders are used to delegate pool administration
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- Describe instant-clone limitations in VMware Horizon
- Describe the creation of instant clones
- Set up an automated pool of instant clones
- Describe the purpose and components of TrueSSO single sign-on
- Compare the benefits of using either the VMware Horizon security server or VMware Access Point™ in the DMZ
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- deployment in a pod
- Describe how a load-balancing capability might improve VMware Horizon performance
- Review course objectives
- Review the course outline
- Identify the major function of each VMware Horizon component
- Define a use case for your virtual desktop and application infrastructure
- Describe the network and firewall configurations for View Connection Server
- License VMware Horizon components
- Configure View Connection Server
- 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
- List the steps to add desktops to the View Connection Server inventory
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- Outline the steps that are required to install and configure User Environment Manage components
- Use the User Environment Manage management console and application profiler to manage user personalization and application configurations
- 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
- Explain how the View Composer linked-clone technology can automate the build-out of RDS server farms
- Describe the load-balancing options for RDS hosts
- Identify the features and benefits of App Volumes
- Identify the interface elements of App Volumes
- Install and configure App Volumes
- Explain the purpose of kiosk mode for client systems and how it is configured
- Explain why you might want to limit the domains that View Connection Server makes available to end users
- Identify the log locations for each VMware Horizon component
- 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
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### Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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