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**Learning Style: Virtual Classroom**

**Technology: VMware**

**Difficulty: Beginner**

**Course Duration: 2 Days**

## **VMware Horizon 8: Infrastructure Administration**



### **About this Course:**

This two-day, hands-on course gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™,

## **Course Objectives:**

- Identify Horizon Connection Server installation, architecture, and requirements.
- Describe the authentication and certification options for a Horizon environment.
- Recognize the integration process and benefits of VMware Workspace ONE® Access™ and Horizon 8.
- Compare the remote display protocols that are available in VMware Horizon.
- Describe the 3D rendering options available in Horizon 8.
- Discuss scalability options available in Horizon 8.
- Describe different security options for the Horizon environment

## **Audience:**

- Administrators and architects for VMware Horizon should enroll in this course. These individuals are responsible for the implementation, maintenance, and administration of an organization's end-user computing infrastructure.

## **Prerequisites:**

Students 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 user activities by implementing Group Policy objects
- Configure Windows systems to enable Remote Desktop Connections
- Build an ODBC connection to an SQL Server database

## **Course Outline:**

## **1 Course Introduction**

- ? Introductions and course logistics
- ? Course objectives

## **2 Horizon Connection Server**

- ? Recognize VMware Horizon reference architecture
- ? Identify the Horizon Connection Server supported features
- ? Identify the recommended system requirements for Horizon Connection Server
- ? Configure Horizon event database
- ? Outline the steps for the initial configuration of Horizon Connection Server
- ? Discuss the ADAM database as a critical component of Horizon Connection Server installation

## **3 Authentication and Certificates**

- ? Compare the authentication options that Horizon Connection Server supports
- ? Describe the Smartcard authentication options that Horizon Connection Server supports
- ? Outline the steps to create a Horizon administrator and custom roles
- ? Describe the roles available in a Horizon environment
- ? Explain the role that certificates play for Horizon Connection Server
- ? Install and configure certificates for Horizon Connection Server
- ? Install and configure True SSO in a Horizon environment

## **4 Workspace ONE Access & Virtual Application Management**

- ? Recognize the features and benefits of Workspace ONE Access
- ? Recognize the Workspace ONE Access console features
- ? Explain identity management in Workspace ONE Access
- ? Explain access management in Workspace ONE Access
- ? Describe the Workspace ONE Access directory integration
- ? Describe the Workspace ONE Access directory integration
- ? Deploy virtual applications with Workspace services

## **5 Horizon Protocols**

- ? Compare the remote display protocols that are available in VMware Horizon
- ? Describe the BLAST Display Protocol Codecs
- ? Describe BLAST and PCoIP ADMX GPO common configurations

## **6 Graphic Cards**

- ? Describe the 3D rendering options available in Horizon 8
- ? Compare vSGA and vDGA
- ? List the steps to configure graphics cards for use in a VMware Horizon environment

## **7 Horizon Scalability**

- ? Describe the purpose of a replica connection server
- ? Explain how multiple Horizon Connection Server instances in a pod maintain synchronization
- ? Explain Horizon Cloud Pod Architecture LDAP replication and VIPA
- ? Explain Horizon Cloud Pod Architecture scalability options

## 8 Horizon Security

- ? Explain concepts relevant to secure Horizon connections
- ? Describe how to restrict Horizon connections.
- ? Discuss the benefits of using Unified Access Gateway
- ? List the two-factor authentication options that are supported by Unified Access Gateway
- ? List Unified Access Gateway firewall rules
- ? Describe the situation in which you might deploy Unified Access Gateway instances with one, two, or three network interfaces

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