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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™, VMware Unified Access Gateway™ and how to establish Cloud Pod Architecture.

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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