VMware Horizon : Deploy and Manage

Duration: 5 Days   **Course Code: VMHDM**   **Version: 8.8**   **Delivery Method: Virtual Classroom**

Overview:

This five-day course gives you the hands-on skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You build on your skills in configuring and managing VMware Horizon® 8 through a combination of lecture and hands-on labs. You learn how to configure and deploy pools of virtual machines and how to provide a customized desktop environment to end-users. Additionally, you learn how to install and configure a virtual desktop infrastructure platform. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Product Alignment
VMware Horizon 8 v2212

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Tier 1 Operators, administrators, and architects for VMware Horizon

Objectives:

- **After completing this course you should be able to:**

- Recognize the features and benefits of VMware Horizon

- Define a use case for your virtual desktop and application infrastructure

- Use vSphere to create VMs to be used as desktops for VMware Horizon

- Create and optimize Windows VMs to create VMware Horizon desktops

- Install and Configure Horizon Agent on a VMware Horizon desktop

- Configure, manage, and entitle desktop pools of full VMs

- Configure and manage the VMware Horizon Client systems and connect the client to a VMware Horizon desktop

- Configure, manage, and entitle pools of instant-clone desktops • Create and use Remote Desktop Services (RDS) desktops and application pools

- Monitor the VMware Horizon environment using the VMware Horizon Console Dashboard and Horizon Help Desk Tool

- Identify VMware Horizon Connection Server installation, architecture, and requirements

- Describe the authentication and certificate options for the VMware Horizon environment

- Recognize the integration process and benefits of 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

Prerequisites:

Attendees should be abe to:

Testing and Certification

Recommended as preparation for the following exams:

- Use VMware vSphere® Web Client to view the state of virtual machines, datastores, and networks
- Open a virtual machine console on VMware vCenter® and access the guest operating

- **2VO-51.23** - Vmware Horizon 8.x Professional required for VCP-DTM 2023 Certification

Content:

Course Introduction

- Introductions and course logistics
- Course objectives

Introduction to VMware Horizon

- Recognize the features and benefits of Horizon
- Describe the conceptual and logical architecture of Horizon

Introduction to Use Case

- Convert customer requirements to use-case attributes
- Define a use case for your virtual desktop and application infrastructure

vSphere for VMware Horizon

- Explain basic virtualization concepts
- Use VMware vSphere® Client™ to access your VMware vCenter System and VMware ESXi™ hosts
- Create a Windows virtual machine using vSphere

Create Windows Desktops

- Outline the steps to install Horizon Agent on Windows virtual machines • Install Horizon Agent on a Windows virtual Machine
- Optimize and prepare Windows virtual machines to set up Horizon desktop VMs

Create Linux Desktops

- Create a Linux VM for Horizon
- Install Horizon Agent on a Linux virtual machine
- Optimize and prepare Linux virtual machines to set up Horizon desktop VMs

Creating and Managing Desktop Pools

- Identify the steps to set up a template for desktop pool deployment
- List the steps to add desktops to the VMware Horizon® Connection Server™ inventory
- Compare dedicated-assignment and floating-assignment pools
- Outline the steps to create an automated pool
- Define user entitlement
- Explain the hierarchy of global, pool-level, and user-level policies

VMware Horizon Client Options

- Describe the different clients and their benefits
- Access the Horizon desktop using various Horizon clients and HTML
- Configure integrated printing, USB redirection, and the shared folders option
- Configure session collaboration and media optimization for Microsoft Teams

Creating and Managing Instant-Clone Desktop Pools

- List the advantages of instant clones
- Explain the provisioning technology used for instant clone desktop pools
- Set up an automated pool of instant clones
- Push updated images to instant clone desktop pools

Creating RDS Desktop and Application Pools

- Explain the difference between an RDS desktop pool and an automated pool
- Compare and contrast an RDS session host pool, a farm, and an application pool
- Create an RDS desktop pool and an application pool
- Access RDS desktops and application from Horizon Client
- Use the instant clone technology to automate the build-out of Remote Desktop Session Host farms
- Configure load-balancing for RDSHs on a farm

Monitoring VMware Horizon

- Monitor the status of the Horizon components using the Horizon Administrator console dashboard
- Monitor desktop sessions using the HelpDesk tool
- Monitor the performance of the remote desktop using the Horizon Performance Tracker

Horizon Connection Server

- Recognize the VMware Horizon reference architecture
- Identify the Horizon Connection Server supported features
- Identify the recommended system requirements for Horizon Connection Server
- Configure the Horizon event database
- Outline the steps for the initial configuration of Horizon Connection Server
- Discuss the AD LDS database as a

Securing Connections: Network

- Compare tunnels and direct connections for client access to desktops
- Discuss the benefits of using Unified Access Gateway
- List the Unified Access Gateway firewall rules
- Configure TLS certificates in Horizon

Securing Connections: Authentication

- Compare the authentication options that Horizon Connection Server supports
- Restrict access to the Horizon remote desktops using restricted entitlements
- Describe the smart card authentication methods that Horizon Connection Server supports
- Explain the purpose of permissions, roles, and privileges in VMware Horizon
- Create custom roles

Horizon Scalability

- Describe the purpose of a replica connection server
- Explain how multiple Horizon Connection Server instances in a pod maintain synchronization
- List the steps to configure graphics cards for use in a Horizon environment
- Configure a load balancer for use in a Horizon environment
- Explain Horizon Cloud Pod Architecture LDAP replication
- Explain Horizon Cloud Pod Architecture scalability options

Horizon Cloud and Universal Broker

- Recognize the features and benefits of Horizon Cloud Service
- Use Universal broker to connect to a Horizon Cloud instance
- Configure and pair the Horizon Cloud Connector appliance with Horizon Connection Server

Workspace ONE Access and Virtual Application Management

- Recognize the features and benefits of Workspace ONE Access
- Explain identity management in Workspace ONE Access
- Explain access management in Workspace ONE Access
- Describe the requirements to install and configure True SSO in a Horizon environment
- Describe the Workspace ONE Access directory integration

critical {an important component?}
component of the Horizon Connection
Server installation

Horizon Protocols

- Compare the remote display protocols
  that are available in VMware Horizon
- Describe the BLAST Display Protocol
  Codecs
- Summarize the BLAST Codec options
- List the ideal applications for each
  BLAST codec
- Describe the BLAST and PCoIP ADMX
  GPO common configurations

Graphics in Horizon

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

- Deploy virtual applications with Workspace
  services

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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