Horizon Deploy and Manage

TARGET AUDIENCE

- Tier 1 Operators, administrators, and architects, responsible for the creation, maintenance, and or delivery of remote and virtual desktop services
- Additional duties can include the implementation, support, and administration of an organization's end-user computing infrastructure.

DELIVERY METHOD

- Classroom
- Live Online
- Private Training
- On Demand

COURSE DURATION

Five (5) days

MAPPED CERTIFICATION

- Omnissa Certified Professional Desktop (OCPD)

PREREQUISITES

Before attending this course, you must have the following skills:

- Use vSphere Web Client
- Create snapshots of virtual machines
- Configure guest customization specifications
- Modify virtual machine properties
- Convert a virtual machine to a template
- 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

Course 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 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 Horizon® Connection Server™ Unified Access Gateway™ how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Course Objectives

By the end of this session, attendees should be able to:

- Recognize the features and benefits of Horizon
- Use vSphere to create VMs to be used as desktops for Horizon
- Create and optimize Windows VMs to create Horizon desktops
- Install and Configure Horizon Agent on a Horizon desktop
- Configure, manage, and entitle desktop pools of full VMs
- Configure and manage the Horizon Client systems and connect the client to a Horizon desktop
- Configure, manage, and entitle pools of instant-clone desktops
- Create and use Remote Desktop Services (RDS) desktops and application pools
- Monitor the Horizon environment using the Horizon Console Dashboard and Horizon Help Desk Tool
- Identify Horizon Connection Server installation, architecture, and requirements
- Describe the authentication and certificate options for the Horizon environment
- Recognize the integration process and benefits of Omnissa® Access™ and Horizon 8
- Compare the remote display protocols that are available in 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.

Course Modules

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Introduction to Horizon

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

3 vSphere for Horizon

- Explain basic virtualization concepts
- Use vSphere Client™ to access your vCenter Server system and ESXi hosts
- Create, provision, and remove a virtual machine

4 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

5 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

6 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 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

7 Horizon Client Options

- Describe the different clients and their benefits
- Access 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

8 Creating and Managing Instant-Clone Desktops

- 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

9 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 RDSH farms
- Configure load-balancing for RDSHs on a farm

10 Monitoring 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

11 Horizon Connection Server

- Recognize 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 AD LDS database as a critical component of Horizon Connection Server installation

12 Horizon Protocols

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

13 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

14 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 Horizons

15 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 Horizon
- Create custom roles

16 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 and VIPA
- Explain Horizon Cloud Pod Architecture scalability options

17 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

18 Omnissa Access and 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
- Deploy virtual applications with Workspace services