

VMware Horizon : Deploy and Manage (V8.8)

Course Outline

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. Introduction to VMware Horizon

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

3. Introduction to Use Case

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

4. vSphere for VMware Horizon

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

5. Create Windows Desktops

- Outline steps to install Horizon Agent on Windows virtual machines
- Install Horizon Agent on a Windows virtual machine
- Optimize and prepare Windows virtual machines for Horizon desktop VMs

6. Create Linux Desktops

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

7. Creating and Managing Desktop Pools

- Identify the steps to set up a template for desktop pool deployment
- 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

8. VMware Horizon Client Options

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

9. 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

10. Creating RDS Desktop and Application Pools

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

11. Monitoring VMware Horizon

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

12. Horizon Connection Server

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

13. Horizon Protocols

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

14. Graphics in Horizon

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

15. Securing Connections: Network

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

16. Securing Connections: Authentication

- Compare authentication options supported by Horizon Connection Server

- Restrict access using restricted entitlements
- Describe smart card authentication methods supported by Horizon
- Explain permissions, roles, and privileges in Horizon
- Create custom roles

17. Horizon Scalability

- Describe the purpose of a replica connection server
- Explain how multiple Horizon Connection Servers in a pod maintain synchronization
- Configure graphics cards for Horizon
- Configure load balancers for Horizon
- Explain Horizon Cloud Pod Architecture LDAP replication and scalability options

18. 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

19. Workspace ONE Access and Virtual Application Management

- Recognize the features and benefits of Workspace ONE Access
- Explain identity and access management in Workspace ONE Access
- Describe requirements for installing and configuring True SSO in a Horizon environment
- Describe Workspace ONE Access directory integration
- Deploy virtual applications with Workspace services