

VMware Horizon 8 : Deploy and Manage plus App Volumes Fast Track

Course Outline

1. Course Introduction

- Introductions and course logistics
- Course objectives

2. Introduction to VMware Horizon

- Features and benefits of VMware Horizon
- Conceptual and logical architecture of Horizon

3. Introduction to Use Cases

- Converting customer requirements into use-case attributes
- Defining a use case for virtual desktop and application infrastructure

4. vSphere for VMware Horizon

- Basic virtualization concepts
- Using VMware vSphere® Client™ to access vCenter Server and VMware ESXi™ hosts
- Creating, provisioning, and removing virtual machines

5. VMware Horizon Desktops

- Creating Windows and Linux virtual machines using vSphere
- Optimizing and preparing VMs for Horizon desktop setup

6. VMware Horizon Agent

- Configuration choices for installing Horizon Agent on Windows and Linux VMs
- Creating a golden image for Windows and Linux Horizon desktops

7. VMware Horizon Pools

- Steps to set up a template for desktop pool deployment
- Adding desktops to the VMware Horizon® Connection Server™ inventory
- Comparing dedicated-assignment and floating-assignment pools
- Steps to create an automated pool
- Defining user entitlement
- Hierarchy of global, pool-level, and user-level policies

8. VMware Horizon Client Options

- Description of different clients and their benefits
- Accessing Horizon desktops using various clients and HTML
- Configuring integrated printing, USB redirection, and shared folders
- Configuring session collaboration and media optimization for Microsoft Teams

9. Creating and Managing Instant-Clone Desktops

- Advantages of instant clones

- Provisioning technology for instant clone desktop pools
- Setting up an automated pool of instant clones
- Pushing updated images to instant clone desktop pools

10. Creating RDS Desktop and Application Pools

- Differences between RDS desktop pools and automated pools
- RDS session host pool, farm, and application pool comparison
- Creating RDS desktop and application pools
- Accessing RDS desktops and applications from Horizon Client
- Automating RDSH farms with instant clone technology
- Load-balancing configuration for RDSHs on a farm

11. Monitoring VMware Horizon

- Monitoring the status of Horizon components with the Horizon Administrator console
- Desktop session monitoring using the HelpDesk tool
- Performance monitoring of remote desktops with Horizon Performance Tracker

12. Horizon Connection Server

- Overview of VMware Horizon reference architecture
- Supported features of Horizon Connection Server
- Recommended system requirements for Horizon Connection Server
- Configuring Horizon event database
- Initial configuration steps for Horizon Connection Server
- Discussing the importance of the AD LDS database for Horizon Connection Server installation

13. Authentication and Certificates

- Comparison of authentication options supported by Horizon Connection Server
- Smartcard authentication options for Horizon Connection Server
- Steps to create Horizon administrators and custom roles
- Roles available in a Horizon environment
- Importance of certificates for Horizon Connection Server
- Installing and configuring certificates for Horizon Connection Server
- Installing and configuring True SSO in a Horizon environment

14. Workspace ONE Access and Virtual Application Management

- Features and benefits of Workspace ONE Access
- Overview of Workspace ONE Access console features
- Identity and access management in Workspace ONE Access
- Directory integration in Workspace ONE Access
- Deploying virtual applications with Workspace services

15. Horizon Protocols

- Comparison of remote display protocols available in VMware Horizon
- Overview of BLAST and its codecs
- Summary of BLAST Codec options and ideal applications for each

- Common configurations for BLAST and PCoIP ADMX GPO

16. Graphics Cards

- 3D rendering options available in Horizon 8
- Comparison of vSGA and vDGA
- Steps to configure graphics cards in a Horizon environment

17. Horizon Scalability

- Purpose of a replica connection server
- Synchronization of multiple Horizon Connection Server instances in a pod
- Steps to configure graphics cards in a Horizon environment
- Load balancer configuration in a Horizon environment
- Horizon Cloud Pod Architecture: LDAP replication and VIPA
- Scalability options for Horizon Cloud Pod Architecture

18. Horizon Security

- Concepts relevant to secure Horizon connections
- Methods to restrict Horizon connections
- Benefits of using Unified Access Gateway
- Supported two-factor authentication options by Unified Access Gateway
- Unified Access Gateway firewall rules
- Deployment considerations for Unified Access Gateway instances with varying network interfaces