



VMware Horizon 8: Infrastructure Administration

[V8.0] (VH8IA)

Course ID #: 7000-650-ZZ-Z

Hours: 16

Course Content

Course Description:

In this 2-day course, you will cover 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™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

Course Objectives:

Upon successful completion of this course, students will be able to:

- 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.
- Discuss performance and scalability options available in Horizon 8.
- Describe different security options for the Horizon environment.

Prerequisites:

Students should 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.

Target Audience:

- Administrators and architects for VMware Horizon should enroll in this course.
- Individuals responsible for the implementation, maintenance, and administration of an organization's end-user computing infrastructure.



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Topics:

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 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

Module 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

Module 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

Module 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

Module 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



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Module 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

Module 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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