

VMWARE HORIZON 8: INFRASTRUCTURE ADMINISTRATION AND TROUBLESHOOTING

Course Code: 839013

VMware Horizon 8: Infrastructure Administrator and Troubleshooting is a five-day combination course of VMware Horizon 8: Infrastructure Administration and VMware Horizon 8: Infrastructure Troubleshooting. This training collection gives you 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 lectures and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™ and VMware Unified Access Gateway™, how to configure a load balancer for use with VMware Horizon, and how to implement the Cloud Pod Architecture feature. In addition, this course provides you with the advanced knowledge, skills, and abilities to troubleshoot VMware Horizon infrastructure. This workshop teaches the required skill and competence for troubleshooting Horizon Connection Server, Unified Access Gateway, protocols, connections, and certificates. This course provides a challenge lab designed to present participants with infrastructure issues that might arise in actual VMware Horizon environments. The objective of this lab is to put into practice the contents covered during the training to create a working environment.

What You'll Learn

By the end of the course, you should be able to meet the following objectives:

- Describe the installation, architecture, and requirements of Horizon Connection Server
- Describe the authentication and certificate options for a VMware Horizon environment
- Recognize the integration process and benefits of Workspace ONE Access and VMware Horizon
- Compare the remote display protocols that are available in VMware Horizon
- Describe the 3D rendering options available in VMware Horizon
- Discuss the scalability options available in VMware Horizon
- Describe the different security options for VMware Horizon environments
- Discuss the advanced configurations of Horizon Connection Server

- List the troubleshooting techniques for common Horizon Connection Server issues
- Interpret the Horizon Connection Server logs
- Identify Unified Access Gateway configuration and certificate issues
- List the troubleshooting steps for common Unified Access Gateway common issues
- Describe Blast configuration verification using logs and settings
- Describe the Blast optimization recommendations for different use cases
- Describe VMware Horizon connections and how to troubleshoot related problems
- Describe VMware Horizon certificates
- List the troubleshooting steps for common VMware Horizon certificates issues
- Describe Cloud Pod Architecture troubleshooting scenarios
- Identify and fix problems in a VMware Horizon environment

Who Needs to Attend

Tier 1 system administrators and integrators responsible for managing and maintaining VMware Horizon infrastructure

Prerequisites

Customers attending this course should have, at a minimum, the following VMware infrastructure skills:

- Using VMware vSphere® Client™ to view the state of virtual machines, datastores, and networks
- Opening a virtual machine console on VMware vCenter® and access the guest operating system

Attendees should also have the following Microsoft Windows system administration experience:

- Configuring Active Directory (AD) services, including DNS, DHCP, and time synchronization
- Restricting user activities by implementing Group Policy Objects (GPOs)
- Configuring Windows systems to enable Remote Desktop connections
- Build an Open Database Connectivity (ODBC) connection to an SQL Server database

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VIRTUAL CLASSROOM LIVE

\$4,250 USD

5 Day

Virtual Classroom Live Outline

Module 1 Course Introduction

- Introductions and course logistics
- Course objectives

Module 2 Horizon Connection Server

- Recognize VMware Horizon reference architecture
- Identify the supported features of Horizon Connection Server
- Identify the recommended system requirements for Horizon Connection Server
- Configure the VMware Horizon event database
- Outline the steps for the initial configuration of Horizon Connection Server
- Discuss the AD Lightweight Directory Service (LDS) 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 smart card authentication options that Horizon Connection Server supports
- Outline the steps to create a VMware Horizon administrator and custom roles
- Describe the roles available in a VMware 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 VMware Horizon environment

Module 4 Workspace ONE Access and Virtual Application Management

- Recognize the features and benefits of Workspace ONE Access
- Describe the features of the Workspace ONE Access console

- 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 ONE services

Module 5 Horizon Protocols

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

Module 6 Graphics Cards

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

Module 7 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 VMware Horizon environment
- Configure a load balancer for use in a VMware Horizon environment
- 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 VMware Horizon connections
- Describe how to restrict VMware Horizon connections
- Discuss the benefits of using Unified Access Gateway
- List the two-factor authentication options that are supported by Unified Access Gateway
- List the Unified Access Gateway firewall rules
- Describe the situations in which you might deploy Unified Access Gateway instances with one, two, or three network interfaces

Module 9 Troubleshooting Horizon Connection Server

- Identify the general troubleshooting techniques for Horizon Connection Server
- Explain how to use logs to identify common Horizon Connection Server problems
- Describe AD LDS replication
- Discuss common Horizon Connection Server replication issues
- Explain how to interpret Horizon Connection Server logs
- Compare successful and unsuccessful logs from common infrastructure administration tasks

Module 10 Troubleshooting Unified Access Gateway

- Identify common Unified Access Gateway deployment issues
- Explain how to monitor the health of a Unified Access Gateway deployment
- Identify and troubleshoot Unified Access Gateway certificate issues
- Explain how to monitor, test, and troubleshoot network errors using tcpdump and curl
- Detail the general Unified Access Gateway troubleshooting methods

Module 11 Blast Configuration

- Discuss Blast codecs and Encoder Switch settings
- Describe how to verify BLAST configuration using logs and settings

Module 12 Optimizing Blast

- List general Blast optimization recommendations
- Summarize Blast tuning recommendations that apply to WAN connections
- Summarize Blast tuning recommendations that apply to work-from-home and home-office-to cloud use cases
- Describe the recommended tuning options to increase display protocol quality for all use cases and application

Module 13 Troubleshooting VMware Horizon Connections

- Explain VMware Horizon connections
- Describe the role of primary and secondary protocols in VMware Horizon connections
- Describe HTML client access connections
- Describe Horizon Connections load balancing
- Describe timeout settings, supported health monitoring strings, and suitable load balancer persistence values
- Identify the troubleshooting steps for failing VMware Horizon load balancer connections
- List the steps for troubleshooting VMware Horizon connections

Module 14 Troubleshooting VMware Horizon Certificates

- List the functions of VMware Horizon certificates
- Describe VMware Horizon certificate scenarios
- Discuss potential challenges related to certificates in VMware Horizon
- Describe the troubleshooting approach to VMware Horizon certificates issues

Module 15 Cloud Pod Architecture

- Describe Cloud Pod Architecture troubleshooting scenarios

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