VMWARE HORIZON 8: VIRTUAL DESKTOP BOOTCAMP

Course Code: 839016

Learn to deliver virtual desktops and applications through a single virtual desktop infrastructure platform.

VMware Horizon® 8: Virtual Desktop Bootcamp is a five-day combination course of VMware Horizon 8: Skills for Virtual Desktop Management and VMware Horizon 8: Virtual Desktop Troubleshooting. This training collection gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. You will build skills in configuring and managing VMware 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 will learn how to resolve common issues that occur in VMware Horizon environments. You will engage in a series of lab exercises to bring existing environment issues to resolution. These exercises mirror real-world troubleshooting use cases, equipping you with the knowledge and practical skills to manage typical challenges faced by virtual desktop administrators and operators. This course also provides a challenge lab designed to present participants with virtual desktop issues that might arise in actual VMware Horizon environments. The lab objective 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:

- Recognize the features and benefits of VMware Horizon
- Define a use case for your virtual desktop and application infrastructure
- Use VMware vSphere® to create VMs to be used as desktops for VMware Horizon
- Create and optimize Windows VMs to create VMware Horizon desktops
- Install and configure Horizon Agent on a VMware Horizon desktop
- Configure, manage, and entitle desktop pools of full VMs
- Configure and manage the VMware Horizon® Client™ systems and connect the client to a VMware Horizon desktop
- Configure, manage, and entitle pools of instant-clone desktops
- Create and use Remote Desktop Services (RDS) desktops and application

pools
- Monitor the VMware Horizon environment using the VMware Horizon console dashboard and Horizon Help Desk Tool
- Implement a structured approach to troubleshooting
- Resolve common issues that occur in VMware Horizon environments
- Describe key VMware Horizon® Connection Server™ features that are available as CLI options with the vdm admin command
- Identify the log locations for each VMware Horizon component
- Identify procedures to diagnose and fix problems related to the creation and use of machines and desktop pools
- Discuss the VMware Logon Monitor requirements
- Explain how to optimize VMware Horizon Windows desktops
- Discuss how to troubleshoot problems related to instant-clone machines
- Identify steps that you can follow to solve problems related to Horizon Client
- Discuss the troubleshooting techniques for common client connection issues
- Discuss the troubleshooting steps applicable to device redirection in VMware Horizon

Who Needs to Attend

Operators, administrators, and architects for VMware Horizon should enroll in this course. These individuals are responsible for the creation, maintenance, and delivery of remote and virtual desktop services.

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
- Building an Open Database Connectivity (ODBC) connection to an SQL Server database

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VIRTUAL CLASSROOM LIVE	$5,780 CAD	5 Day

Virtual Classroom Live Outline

Module 1 Course Introduction

- Introductions and course logistics
- Course objectives

Module 2 Introduction to VMware Horizon

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

Module 3 Introduction to Use Cases

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

Module 4 vSphere for VMware Horizon

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

Module 5 VMware Horizon Desktops

- Create a Windows and a Linux virtual machine using vSphere
- Optimize and prepare Windows and Linux VMs to set up Vmware Horizon desktop VMs

Module 6 VMware Horizon Agent

- Outline the configuration choices when installing Horizon Agent on Windows and Linux virtual machines
- Create a golden image for Windows and Linux Horizon desktops

Module 7 VMware Horizon 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

Module 8 VMware Horizon Client Options

- Describe the different clients and their benefits
- Access the VMware 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

Module 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

Module 10 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 Remote Desktop Service Host (RDSH) farms
- Configure load-balancing for RDSHs on a farm

Module 11 Monitoring VMware Horizon

- Monitor the status of the VMware Horizon components using the Horizon Administrator console dashboard
- Monitor desktop sessions using Horizon Help Desk

Module 12 Overview of Virtual Desktop and Application Virtualization Troubleshooting

- Identify VMware Horizon architecture and supportability using VMware documentation
- Apply systematic troubleshooting methods to logically diagnose faults by collecting valid and accurate information regarding the environment and problems
- Identify the different approaches to take when a problem occurs and how to document them

Module 13 Command-Line Tools and Backup Options

- Describe key Horizon Connection Server features that are available as CLI options with the vdmadmin command
- Identify and collect the log locations for each VMware Horizon component
- Describe the VMware Horizon backup and restore and its benefits
- Identify the database reporting functionality and the steps to resolve

inconsistencies

Module 14 Troubleshooting Machines and Desktops

- Identify the information available in Horizon Help Desk Tool
- Identify the procedures for diagnosing and fixing problems while creating and using machines and desktop pools
- Identify the procedures for diagnosing and fixing problems while creating and using Linux desktops

Module 15 Horizon End-User Performance and Optimization

- Discuss the VMware Logon Monitor requirements
- Describe the VMware Logon Monitor configuration
- List the VMware Logon Monitor metrics
- Identify the advantages of image optimization
- Explain how to optimize VMware Horizon Windows desktops

Module 16 Troubleshooting Instant Clones

- Discuss how instant clones are created
- Discuss what gets logged when an instant clone is Created
- Discuss the keywords to look for in the logs when troubleshooting instant clones
- Discuss how to troubleshoot problems with instant clones

Module 17 Troubleshooting Horizon Client

- Identify steps that you can follow to solve problems related to Windows Horizon Client
- Identify steps that you can follow to solve problems related to Linux Horizon Client
- Identify steps that you can follow to solve problems related to HTML Horizon Client
- Identify steps that you can follow to solve problems related to Mac Horizon Client

Module 18 Troubleshooting Common Client Connection Issues

- Discuss the key ports and protocols used in VMware Horizon environments
- Discuss how to troubleshoot black screen problems

Module 19 Troubleshooting Device Redirection

- List troubleshooting steps applicable to USB redirection issues
- Discuss nested RDSH redirection

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