

## VMware Horizon 8: Skills for Virtual Desktop Management HSVDM8

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### Course Summary

#### Description

This three-day, hands-on course gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. This course builds your 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.

#### Objectives

At the end of this course, students will be able to:

- Recognize the features and benefits of Horizon
- Use VMware vSphere to create VMs to be used as desktops for Horizon
- Create and optimize Windows VMs to create Horizon desktops
- Install and configure Horizon Agent on Horizon desktop
- Configure and manage the VMware Horizon Client systems and connect the client to a VMware Horizon desktop
- Configure, manage, and entitle desktop pools of full VMs
- Configure, manage, and entitle pools of instant-clone desktops
- Create and use Remote Desktop Services (RDS) desktops and application pools
- Monitor the Horizon environment using Horizon Console Dashboard and Horizon Help Desk Tool

#### Topics

- Course Introduction
- Introduction to VMware Horizon
- Introduction to Use Case
- vSphere for Horizon 8
- VMware Horizon Desktops
- VMware Horizon Agents
- VMware Horizon Pools
- VMware Horizon Client Options
- Creating and Managing Instant-Clone Desktop
- Pools
- Creating RDS Desktop and Application Pools
- Monitoring VMware Horizon

#### Audience

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

#### Prerequisites

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

- Use VMware vSphere Web Client to view the state of virtual machines, datastores, and networks
- Open a virtual machine console on VMware vCenter Server and access the guest operating system

Attendees should also 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

#### Duration

Three days

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### Course Outline

#### I. Course Introduction

- A. Introductions and course logistics
- B. Course objectives

#### II. Introduction to VMware Horizon

- A. Recognize the features and benefits of Horizon
- B. Describe the conceptual and logical architecture of Horizon

#### III. Introduction to Use Case

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

#### IV. vSphere for Horizon 8

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

#### V. VMware Horizon Desktops

- A. Create a Windows and a Linux virtual machine using vSphere
- B. Optimize and prepare Windows and Linux virtual machines to set up Horizon desktop VMs

#### VI. VMware Horizon Agents

- A. Outline the configuration choices when installing Horizon Agent on Windows and Linux virtual machines
- B. Create a gold master for Windows Horizon desktops

#### VII. VMware Horizon Pools

- A. Identify the steps to set up a template for desktop pool deployment
- B. List the steps to add desktops to the VMware Horizon® Connection Server™ inventory
- C. Compare dedicated-assignment and floating assignment pools
- D. Outline the steps to create an automated pool

- E. Define user entitlement

- F. Explain the hierarchy of global, pool-level, and userlevel policies

#### VIII. VMware Horizon Client Options

- A. Describe the different clients and their benefits
- B. Access Horizon desktop using various Horizon clients and HTML
- C. Configure integrated printing, USB redirection, and the shared folders option
- D. Configure session collaboration and media optimization for Microsoft Teams

#### IX. Creating and Managing Instant-Clone Desktop Pools

- A. List the advantages of instant clones
- B. Explain the provisioning technology used for instant clone desktop pools
- C. Set up an automated pool of instant clones
- D. Push updated images to instant clone desktop pools

#### X. Creating RDS Desktop and Application Pools

- A. Explain the difference between an RDS desktop pool and an automated pool
- B. Compare and contrast an RDS session host pool, a farm, and an application pool
- C. Create an RDS desktop pool and an application pool
- D. Access RDS desktops and application from Horizon Client
- E. Use the instant clone technology to automate the build-out of RDSH farms
- F. Configure load-balancing for RDSHs on a farm

#### XI. Monitoring VMware Horizon

- A. Monitor the status of the Horizon components using the Horizon Administrator console dashboard
- B. Monitor desktop sessions using the HelpDesk tool