

**VMware Horizon: Deploy and Manage**

**Course Number:** VM-102
**Duration:** 5 days

**Overview**

Accelebrate's VMware Horizon course  (v8) teaches attendees how to deploy and manage virtual desktops and applications through the VMware Horizon 8 desktop infrastructure platform.

**Prerequisites**

All attendees must take VMware vSphere: Install Configure Manage course.

**Materials**

All attendees receive the official VMware courseware for this course.

**Software Needed on Each Student PC**

A modern web browser and an Internet connection free of restrictive firewalls, so that the student can connect by SSH and Remote Desktop (RDP) into the virtual environment for the training.

**Objectives**

* 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
* Identify Horizon Connection Server installation, architecture, and requirements
* Describe the authentication and certification options for a Horizon environment

**Outline**

* Introduction
	+ Introductions and course logistics
	+ Course objectives
* Introduction to VMware Horizon
	+ Recognize the features and benefits of Horizon
	+ Describe the conceptual and logical architecture of Horizon
* Introduction to Use Case
	+ Define a use case for your virtual desktop and application infrastructure
	+ Convert customer requirements to use-case attributes
* vSphere for Horizon 8
	+ Explain basic virtualization concepts
	+ Use VMware vSphere® Client™ to access your vCenter Server system and VMware ESXi™ hosts
	+ Create, provision, and remove a virtual machine
* VMware Horizon Desktops
	+ Create a Windows and a Linux virtual machine using vSphere
	+ Optimize and prepare Windows and Linux virtual machines to set up Horizon desktop VMs
* VMware Horizon Agents
	+ Outline the configuration choices when installing Horizon Agent on Windows and Linux virtual machines
	+ Create a gold master for Windows Horizon desktops
* VMware Horizon Pools
	+ Identify the steps to set up a template for desktop pool deployment
	+ List the steps to add desktops to the VMware 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
* VMware Horizon Client Options
	+ Describe the different clients and their benefits
	+ Access 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
* 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
* 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 RDSH farms
	+ Configure load-balancing for RDSHs on a farm
* Monitoring VMware Horizon
	+ Monitor the status of the Horizon components using the Horizon Administrator console dashboard
	+ Monitor desktop sessions using the HelpDesk tool
* 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 the 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
* VMware Horizon 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
* 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
* VMware Horizon Performance and Scalability
	+ Describe the purpose of a replica connection server
	+ Explain how multiple Horizon Connection Server instances in a pod maintain synchronization
	+ Describe the 3D rendering options available in Horizon 8
	+ List the steps to configure graphics cards for use in a Horizon environment
	+ Configure a load balancer for use in a Horizon environment
	+ Explain Horizon Cloud Pod Architecture LDAP replication and VIPA
	+ Explain Horizon Cloud Pod Architecture scalability options
* Managing VMware 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
* Conclusion