

**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