COURSE OVERVIEW:

This intensive five-day, extended-hours VMware course gives you the skills to deliver virtual desktops and applications through a single virtual desktop infrastructure platform. This course builds your skills in installing, configuring, and managing VMware Horizon® 7 through a combination of lecture and hands-on labs.

Students will learn how to configure and deploy pools of virtual machines and how to manage access and security of the machines. They will also gain skills in application management using VMware App Volumes™ and VMware User Environment Manager™. As well as learn how to use App Volumes to deliver applications and data to desktops and users in seconds and at scale, managing application lifecycles from installation to update and replacement. You also learn how to use User Environment Manager to provide personalization and dynamic policy configuration across virtual, physical, and cloud-based environments to simplify end-user profile management.

PREREQUISITES:

This course requires that you complete the VMware vSphere: Install, Configure, Manage [V6.x] course or you know how to do the following:

- 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
- Modify virtual machine properties
- Convert a virtual machine into a template
- Configure Active Directory services, including DNS, DHCP, and time synchronization

Or you must have system administration experience on Microsoft Windows or Linux operating systems.

COURSE OBJECTIVES

Upon completing this course, the learner will be able to meet these overall objectives:

- Identify VMware Horizon components
- Install and configure View Connection Server
- Install and configure virtual desktops

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- Configure and manage VMware Horizon® Client™ systems
- Configure and manage pools of physical and virtual machines
- Configure and manage automated pools of full virtual machines
- Configure and manage pools of linked-clone desktops
- Configure and manage automated pools of instant clones
- Configure and manage Remote Desktop Services (RDS) pools of desktops and applications
- Use Horizon Administrator to configure the VMware Horizon environment
- Configure secure access to virtual desktops
- Manage the performance and scalability of a VMware Horizon deployment
- Describe the features and functions of App Volumes and User Environment Manager
- Demonstrate the architectures of App Volumes and User Environment Manager
- Install and configure App Volumes
- Create and deploy AppStacks and writable volumes
- Install and configure User Environment Manager
- Manage application configurations, user environment settings, and personalization settings

WHO SHOULD ATTEND:

The primary audience for this course is as follows:
- Experienced system administrators and system integrators responsible for implementing desktop solutions

COURSE OUTLINE:

Module 1: Course Introduction
- Review course objectives
- Review the course outline

Module 2: Introduction to VMware Horizon
- Recognize the features and benefits of VMware Horizon
- Identify the major function of each VMware Horizon component

- Define a use case for your virtual desktop and application infrastructure

Module 3: View Connection Server
- Identify the system and virtualization requirements for a View Connection Server
- License VMware Horizon components
- Configure View Connection Server
- Use the dashboard to quickly focus on the details of a problem
- Identify the benefits of using the VMware Horizon Help Desk tool

Module 4: VMware Horizon Desktops
- Outline the process and choices in setting up VMware Horizon virtual machines
- Compare the remote display protocols that are available in VMware Horizon
- Outline the configuration choices when installing Horizon Agent

Module 5: VMware Horizon Desktop Pools
- Identify the steps to set up a template for desktop pool deployment
- List the steps to add desktops to the View Connection Server inventory
- Define desktop entitlement
- Describe how information on the Users and Groups page can be used to control and monitor Horizon users
- Explain the hierarchy of global policies, pool-level policies, and user-level policies
- List the Horizon Group Policy administrative template files

Module 6: Horizon Client Options
- Enlist the requirements for a Horizon Client installation
- Install Horizon Client and connect to a virtual desktop
- Explain USB redirection and options
- Define and compare a thin client with a system running Horizon Client
- Configure Virtual Printing for location-based printing

Module 7: Creating Automated Pools of Full Virtual Machines
- Recognize how an automated pool operates
- Compare dedicated-assignment and floating-assignment pools
- Outline the steps to create an automated pool

Module 8: Creating and Managing Linked-Clone Desktop Pools

- Describe the VMware linked-clone technology
- Enlist the system requirements for View Composer
- Outline the steps to install View Composer
- Outline the steps necessary to set up a desktop pool that uses linked clones
- Compare the purpose of the parent and the replica virtual machines
- Compare the recompose, refresh, and rebalance management operations for linked clones
- Describe the management operations for persistent disks

Module 9: Creating and Managing Instant-Clone Desktop Pools

- Identify the advantages of instant clones
- Differentiate between View Composer linked clones and instant clones
- Identify the types of instant-clone virtual machines
- Enlist the requirements of instant clones
- Outline the steps to set up an automated pool that uses instant clones
- Set up an automated pool of instant clones
- Update the image of an instant clone desktop pool using the push image operation

Module 10: VMware Horizon Authentication and Certificates

- Compare the authentication options that View Connection Server supports
- Explain the purpose of roles and privileges in VMware Horizon
- Outline the steps to create a Horizon administrator and a custom role
- List some of the best practices for configuring Horizon administrators
- Configure Horizon Server to Use a New TLS Certificate

Module 11: Managing VMware Horizon Security

- Compare tunnels and direct connections for client access to desktops
- Compare the benefits of using VMware Unified Access GatewayTM in the DMZ
- List the advantages of direct connections
- Discuss the benefits of using Unified Access Gateway
- List the two-factor authentication options that are supported by Unified Access Gateway
- Configure a Unified Access Gateway Appliance

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Module 12 : Command-Line Tools and Backup Options
- Describe key View Connection Server features that are available as command-line options with the vdmadmin command
- Explain the purpose of kiosk mode for client systems and how it is configured
- Identify the log locations for each VMware Horizon component
- Describe the backup options for VMware Horizon databases

Module 13: VMware Horizon Performance and Scalability
- Describe the purpose of a replica server
- List several best practices for multiserver deployment in a pod
- Describe the benefits of the Cloud Pod Architecture feature for large-scale VMware Horizon deployments
- Establish a session with a desktop machine in a different pod by logging in to a local View Connection Server instance
- Create global entitlements for accessing Horizon Desktops

Module 14: JMP and Horizon 7 Overview
- Identify the benefits of JMP
- Enlist the JMP and Horizon 7 components
- Identify JMP deployment considerations
- Install and configure JMP Server
- Leverage Smart Policy on the VMware Horizon 7 Platform

Module 15: Overview of Application and Profile Management
- Identify the use cases and benefits of Just-in-Time Management Platform
- Identify the use cases and benefits of App Volumes
- Identify the use cases and benefits of User Environment Manager
- Identify the use cases and benefits of VMware ThinApp®

Module 16: Overview of User Environment Manager
- Describe the architecture and operation of User Environment Manager
- Identify the use cases and benefits for User Environment Manager
- Identify the components of User Environment Manager
- Identify the benefits of Application Configuration

Module 17: Installation of User Environment Manager
- Recognize the User Environment Manager Agent (FlexEngine) requirements
- Define the User Environment Manager installation procedure
- Use NoAD Mode to configure User Environment Manager
- Configure Group Policies
- Configure Management Console

Module 18: Management Console User Interface
- Describe the capabilities of the primary tabs in the User Environment Manager - Management Console
- Associate conditions with User Environment Manager settings and user environment settings
- Use Application migration, Application Blocking, and Privilege Elevation

Module 19: Creating RDS Desktop and Application Pools
- Explain the difference between an RDS desktop pool and an automated pool
- Access a single application by using the RDS application pool
- Compare and contrast an RDSH pool, a farm, and an application pool
- Create an RDS desktop pool and an application pool
- Identify the load-balancing options for Remote Desktop Session Hosts

Module 20: Overview of App Volumes
- Describe the architecture and operation of App Volumes
- Explain the function of App Volumes Manager, App Volumes Agent, AppStack, and writable volume
- Identify the major requirements to deploy App Volumes

Module 21: App Volumes Installation Overview
- Describe the installation sequence for the App Volumes Manager and the App Volumes Agent
- Describe the App Volumes operation modes for AppStacks and writable volumes
- Describe the basic configuration options and where these options are configured in the App Volumes Manager Web interface

Module 22: Working with AppStacks
- Create and provision AppStacks
- Manage and update AppStacks
- Best practices for AppStacks

Module 23: Working with Writable Volumes
- Describe the operation of a writable volume
- Create, assign, and attach writable volume
- Move, back up, and restore writable volumes

Module 24: Application Configuration Management
- Use predefined and user-customized application settings
- Use Application Profiler
- Use the Self-Support Tool
- Use the Helpdesk Support Tool