VMware Horizon: Deploy and Manage



Days: 5

Prerequisites: Before attending this course, participants should be able to use the vSphere Web Client to manage virtual machines, datastores, and networks; access guest operating systems through vCenter; and create and manage virtual machine snapshots and templates. Attendees should also be familiar with configuring Windows services such as DNS, DHCP, and time synchronization, as well as Active Directory. Additionally, they should be able to set up Group Policy Objects, enable Remote Desktop Protocol (RDP) connections, and build ODBC connections to a SQL Server database

Audience: The primary audience for this course includes System Installers, System Integrators, System Administrators, Network Administrators, and/or Solutions Designers.

Description: This intensive five-day course provides participants with the skills to deploy and manage VMware Horizon 8 environments, enabling the delivery of virtual desktops and applications through a unified platform. Attendees will gain hands-on experience configuring and deploying pools of desktops and applications, customizing desktop environments, and implementing Horizon infrastructure components such as Connection Server, Unified Access Gateway, and Cloud Pod Architecture.

Course Objectives: Upon completion of this course, participants will be able to:

- Identify VMware Horizon features and architecture
- Define use cases for desktop/application virtualization
- Create and optimize Windows and Linux desktop VMs
- Configure, entitle, and manage desktop pools
- Manage Horizon Clients and user experiences
- Deploy instant-clone desktops and RDSH applications
- Monitor Horizon environments using admin tools
- Install and configure Horizon Connection Server and supporting infrastructure
- Secure Horizon deployments with certificates, gateways, and authentication
- Scale environments using replica servers and Cloud Pod Architecture
- Integrate Workspace ONE Access and manage virtual apps

OUTLINE:

LESSON 1: COURSE INTRODUCTION

- Welcome and logistics
- Course goals and structure

LESSON 2: INTRODUCTION TO VMWARE HORIZON

- Horizon features and benefits
- Horizon conceptual and logical architecture

LESSON 3: USE CASE DEFINITION

- Translating customer needs into use-case attributes
- Defining virtual desktop and app infrastructure goals

LESSON 4: VMWARE VSPHERE OVERVIEW

Virtualization concepts

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- Using vSphere Client to manage ESXi and vCenter
- Creating Windows VMs for Horizon

LESSON 5: CREATING WINDOWS DESKTOPS

- Installing and optimizing Horizon Agent
- Preparing Windows VMs for Horizon deployment

LESSON 6: CREATING LINUX DESKTOPS

- Creating and configuring Linux VMs
- Installing and optimizing Horizon Agent for Linux

LESSON 7: CREATING AND MANAGING DESKTOP POOLS

- Template setup and inventory management
- Dedicated vs. floating assignment
- Automated pool creation and user entitlements
- Policy hierarchy (global, pool, user level)

LESSON 8: VMWARE HORIZON CLIENT OPTIONS

- Horizon Client types and use cases
- Client connection and user experience options
- Enabling printing, USB, Teams optimization, and session collaboration

LESSON 9: INSTANT-CLONE DESKTOP POOLS

- Benefits of instant clones
- Provisioning and deployment workflows
- Updating instant clone images

LESSON 10: RDS DESKTOPS AND APPLICATIONS

- Differences between RDS and automated pools
- Creating farms, session hosts, and app pools
- Using instant clones for RDSH
- Load balancing RDSH farms

LESSON 11: MONITORING HORIZON ENVIRONMENTS

- Using the Admin console dashboard
- Help Desk Tool for session insights
- Horizon Performance Tracker

LESSON 12: HORIZON CONNECTION SERVER

- Horizon architecture and supported features
- System requirements and configuration steps



- Event database setup
- Active Directory Lightweight Directory Services (AD LDS) overview

LESSON 13: HORIZON PROTOCOLS

- Remote display protocol comparison
- BLAST Codec types and use cases
- ADMX GPO configurations for BLAST and PCoIP

LESSON 14: GRAPHICS IN HORIZON

- 3D rendering options (vSGA, vDGA)
- GPU configuration steps

LESSON 15: SECURING CONNECTIONS – NETWORK

- Tunnels vs. direct connections
- Unified Access Gateway benefits and configuration
- Firewall rules and TLS certificate setup

LESSON 16: SECURING CONNECTIONS – AUTHENTICATION

- Authentication methods
- Restricted entitlements and smart card support
- Permissions, roles, and privileges
- Creating custom roles

LESSON 17: HORIZON SCALABILITY

- Replica connection server functions
- Pod synchronization and LDAP replication
- Load balancer configuration
- Cloud Pod Architecture overview and scalability

LESSON 18: HORIZON CLOUD AND UNIVERSAL BROKER

- Horizon Cloud Service overview
- Connecting with Universal Broker
- Configuring Cloud Connector appliance

LESSON 19: WORKSPACE ONE ACCESS & VIRTUAL APPS

- Workspace ONE features
- Identity and access management
- Installing True SSO and directory integration
- Deploying virtual apps with Workspace services

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