VMWARE: INSTALL, CONFIGURE, MANAGE

DATE: To be confirmed **CONTACT: academy@techlan.it** **STUDY BOOK:** **PRICE: Request**

COURSE OBJECTIVE:

This 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 installing, configuring, and managing VMware Horizon® 7 through a combination of lecture and hands-on labs. You will learn how to configure and deploy pools of virtual machines, how to manage the access and security of the machines, and how to provide a customized desktop environment to end users.

Upon Completion of this course, you will be able to:

- Identify VMware Horizon components
- Install and configure View Connection Server
- Install and configure virtual desktops
- 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
- Use VMware User Environment Manager™ to manage user personalization and application configurations
- Describe steps to deploy profile management
- Use VMware App Volumes™ to provision and manage applications
- Manage the performance and scalability of a VMware Horizon deployment

PREREQUISIT:

It is recommended, but not required, that students have the following knowledge and 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
Create snapshots of virtual machines
Configure guest customization specifications
Modify virtual machine properties
Convert a virtual machine into a template
Deploy a virtual machine from a template

WHO SHOULD ATTEND

Technical personnel who work in the IT departments of end-customer companies and people who are responsible for the delivery of remote or virtual desktop services

TECHLAN

ACADEMY

COURSE CONTENT:

MODULE 1: Course Introduction
Review course goals
Review course objectives
Review the course outline
Find additional resources after this course

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 VMware vSphere® requirements for a connection server
Describe the network and firewall configurations for View Connection Server
License VMware Horizon components
Configure View Connection Server to DVS

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
List the ports that must be opened in the machine's firewall for VMware Horizon operations
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 View users
Explain the hierarchy of global policies, pool-level policies, and user-level policies
List the View Group Policy administrative template files

MODULE 6: Horizon Client Options
Describe the requirements for a Horizon Client installation
Explain USB redirection and options
Describe the power states for desktops
Define and compare a thin client with a system running Horizon Client
Discuss the benefits of Virtual Printing
Explain the Virtual Printing architecture
Describe the configuration options for Virtual Printing
Explain the location-based printing feature

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
Examine the entitlement of desktops in automated pools

MODULE 8: Creating and Managing Linked-Clone Desktop Pools
Describe the VMware linked-clone technology
Explain why both a parent virtual machine and a snapshot must be used to create linked clones
Outline the system requirements for View Composer
Describe the relationship between a persistent disk and the system disk
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 linked-clone management operations
Describe the management operations for persistent disks

MODULE 9: Creating and Managing Instant-Clone Desktop Pools
Identify the advantages of instant clones
Distinguish View Composer clones from instant clones
Identify the requirements of instant clones
Describe the types of instant-clone virtual machines
Explain how folders are used to delegate pool administration

MODULE 10: VMware Horizon Authentication
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

MODULE 11: Managing VMware Horizon Security
Compare tunnels and direct connections for client access to desktops
Compare the benefits of using VMware Unified Access Gateway™ in the DMZ
Explain a direct connection
List the advantages of direct connections
Discuss the benefits of using Unified Access Gateway
Compare how Unified Access Gateway and the security server are deployed
List the two-factor authentication options that are supported by Unified Access Gateway
Describe the situations in which you might deploy Unified Access Gateway with one, two, or three network interfaces

LABS: To be confirmed

MODULE 12: Profile Management Using User Environment Manager
Identify the User Environment Manager functional areas and their benefits
List User Environment Manager components
Describe User Environment Manager and its architecture
Identify User Environment Manager profile management and its features
Describe User Environment Manager smart policies

MODULE 13: Creating RDS Desktop and Application Pools
Explain the difference between an RDS desktop pool and an automated pool
Describe how a user can access a single application by using the RDS application pool
Describe the relationship between an RDS host, a farm, and an application pool
Create an RDS desktop pool and an application pool
Explain how the View Composer linked-clone technology can automate the build-out of RDS server farms
Use View Composer linked-clone technology and instant-clone technology to automate the build-out of RDSH farms
Describe the default and alternative load-balancing feature for RDS hosts that optimizes placement of sessions

MODULE 14: Using App Volumes to Provision and Manage Applications
Explain how App Volumes works
Identify the features and benefits of App Volumes
Identify the interface elements of App Volumes
Install and configure App Volumes

MODULE 15: 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
Explain the potential problems if the databases are not synchronized

MODULE 16: 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
Describe the purpose of interpod communication and the View InterPod API
Explain how global entitlements can benefit a single-pod environment