

VMware Virtual Desktop Infrastructure (VDI) - Horizon View 7

خلاصه :

در دوره **VMware Virtual Desktop Infrastructure (VDI) - Horizon View 7** افراد با نصب و پیکربندی یک پکیج نرم افزاری بنام VMware Horizon 7 آشنا می‌شوند. با استفاده از VDI می‌توان سیستم عامل‌ها و نرم افزارهای کاربران را بر روی یک بستر مجازی نصب نمود. در این صورت همه کاربران برای استفاده از Desktop خودشان به این بستر مجازی متصل می‌گردند، از قابلیت‌های پکیج نرم افزاری VDI می‌توان به امکان مدیریت متمرکز کلیه Desktopها و Applicationها، یک آپگیری متمرکز و ساده، اضافه کردن اتوماتیک Desktop برای کاربر و... نامبرد. همین ویژگی‌ها سبب بالا رفتن امنیت، ساده شدن تامین و نگهداری و... در شبکه های مبتنی بر VMware Horizon می‌باشد.

مدت دوره: ۳۲ ساعت

پیش نیاز: گذراندن دوره VMware vSphere 6.7 : Install, Configure, Manage

مخاطب:

علاقتمندان به دوره‌های شبکه و مجازی سازی

کارشناسان با تجربه در حوزه مجازی سازی

مهندسين سيستمي در حوزه مجازی سازی

کارشناسان ICT

اشخاصی که قصد فعالیت در زمینه مشاوره، طرحی و پیاده سازی بسترهای مجازی و Desktop های مجازی دارند.

اهداف دوره:

مجموعه نرم افزار VMware Horizon View به کاربران اجازه می‌دهد که به بهترین شکل ممکن از Desktop از هر مکانی و با استفاده از هر دستگاهی استفاده کنند. این نرم افزار با استفاده از PCoIP به کاربران امکان استفاده از Desktop شان را بر هر

بستر شبکه با بهترین کیفیت می دهد . کاربران می توانند بوسیله Zero Client , Thin Client و Smart Phone به Desktop ها متصل شوند .

این مجموعه براساس مجموعه VMware vSphere ساخته شده و قدرت ، اطمینان ، و دسترسی منحصر به فردی را در محیط Virtual Desktop فراهم آورده است .

Failover, Load Balancing, Backup Recovery در سطح Datacenter از دیگر امکانات و توانایی های این مجموعه است.

در انتهای این دوره دانشجویان قادر خواهند بود:

مشاوره و طراحی VMware VDI

پیاده سازی و اجراء VMware VDI

پشتیبانی، نگهداری و عیب یابی VMware VDI

حفظ امنیت و بک آپگیری از Desktop های کاربران

سرفصل دوره :

1- Course Introduction

- Review course goals
- Review course objectives
- Review the course outline
- Find additional resources after this course

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

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

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

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

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

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

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

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
- Outline the steps to set up an automated pool that uses instant clones
- Describe instant-clone limitations in VMware Horizon
- Describe the creation of instant clones
- Set up an automated pool of instant clones

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

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

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

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

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

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

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

• منبع درسی:

• Mastering VMware Horizon 7 – Second Edition