OFERTA FORMATIVA

Detalles de contacto

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VMware vSphere: Install, Configure, Manage [V6.7]

CÓDIGO:	DURACIÓN:	Precio:
VMW_VSICM67	40 Hours (5 días)	A consultar

Description

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 6.7, which includes VMware ESXi™ 6.7 and VMware vCenter Server® 6.7. This course prepares you to administer a vSphere infrastructure for an organization of any size. It is the foundation for most other VMware technologies in the software-defined data center.

Product Alignment
• ESXi 6.7
• vCenter Server 6.7

Objetivos

By the end of the course, you should be able to meet the following objectives:
• Describe the software-defined data center
• Explain the vSphere components and their function in the infrastructure
• Add ESXi hosts to a VMware vCenter® Server Appliance™ instance
• Manage vCenter Server Appliance
• Use a local content library as an ISO store, and deploy a virtual machine
• Describe vCenter Server architecture
• Use vCenter Server to manage an ESXi host
• Configure and manage vSphere infrastructure with VMware Host Client™ and VMware vSphere® Client™
• Describe virtual networks with vSphere standard switches
• Configure standard switch policies
• Use vCenter Server to manage various types of host storage: VMware vSphere® VMFS, NFS, iSCSI, and RDM
• Examine the features and functions of Fibre Channel and VMware vSAN™
• Manage virtual machines, templates, clones, and snapshots
• Migrate virtual machines with VMware vSphere® vMotion®
• Migrate virtual machine storage with VMware vSphere® Storage vMotion®
• Monitor resource usage, and manage resource pools
• Discuss the VMware vSphere® High Availability cluster architecture
• Configure vSphere HA
• Manage vSphere HA and VMware vSphere® Fault Tolerance
• Use VMware vSphere® Replication™ and VMware vSphere® Data Protection™ to replicate virtual machines and perform data recovery
• Use VMware vSphere® Distributed Resource Scheduler™ clusters to improve host scalability
• Use VMware vSphere® Update Manager™ to apply patches and perform basic troubleshooting of ESXi hosts, virtual machines, and vCenter Server operations
• Identify troubleshooting methodology to logically diagnose faults and improve troubleshooting efficiency

Público

• System administrators
• System engineers

Requisitos Previos

This course has the following prerequisites:
• System administration experience on Microsoft Windows or Linux operating systems

Programa

1 Course Introduction
• Introductions and course logistics
• Course objectives
• Describe the content of the course
• Gain a complete picture of the VMware certification system
• Familiarize yourself with the benefits of the VMware Education Learning Zone
• Identify additional resources

2 Introduction to vSphere and the Software-Defined Data Center
• Describe how vSphere fits into the software-defined data center and the cloud infrastructure
• Explain how vSphere interacts with CPUs, memory, networks, and storage
• Use vSphere Client to access and manage your vCenter Server system and ESXi host
• Compare virtual machine hardware version 14 to other versions
• Identify the virtual network adapters, and describe the enhanced VMXNET3
• Compare the types of virtual disk provisioning
• Identify the advantages of ESXi Quick Boot

3 Creating Virtual Machines
• Create, provision, and remove a virtual machine
• Explain the importance of VMware Tools™
• Describe how to import a virtual appliance OVF template
• Manage VMware Tools
• Explain troubleshooting OS installation and VMware Tools

4 vCenter Server
• Describe the vCenter Server architecture
• Discuss how ESXi hosts communicate with vCenter Server
• Identify the vCenter Server services, components, and modules
• Access and configure vCenter Server Appliance
• Use vSphere Client to manage the vCenter Server inventory
• Describe the rules for applying permissions
• Create a custom role in vCenter Server
• Create a backup schedule
• Restore vCenter Server Appliance from backup
• Monitor vCenter Server Appliance

5 Configuring and Managing Virtual Networks
• Describe, create, and manage standard switches
• Configure virtual switch security and load-balancing policies
• Compare vSphere distributed switches and standard switches
• Describe the virtual switch connection types
• Describe the new TCP/IP stack architecture
• Use VLANs with standard switches

6 Configuring and Managing Virtual Storage
• Identify storage protocols and storage device types
• Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
• Create and manage VMware vSphere® VMFS and NFS datastores
• Describe the new features of VMFS 6.5
• Identify the advantages of VMware vSAN™
• Describe guest file encryption

7 Virtual Machine Management
• Use templates and cloning to deploy new virtual machines
• Modify and manage virtual machines
• Clone a virtual machine
• Upgrade virtual machine hardware to version 14
• Remove virtual machines from the vCenter Server inventory and datastore
• Use customization specification files to customize a new virtual machine
• Perform vSphere vMotion and vSphere Storage vMotion migrations
• Create and manage virtual machine snapshots
• Create, clone, and export vApps
• Identify the types of content libraries and how to deploy and use them

8 Resource Management and Monitoring

- Discuss CPU and memory concepts in a virtualized environment
- Describe what overcommitment of a resource means
- Identify additional technologies that improve memory usage
- Configure and manage resource pools
- Describe methods for optimizing CPU and memory usage
- Use various tools to monitor resource usage
- Create and use alarms to report certain conditions or events

9 vSphere HA, vSphere Fault Tolerance, and Protecting Data
- Explain the vSphere HA architecture
- Configure and manage a vSphere HA cluster
- Use vSphere HA advanced parameters
- Enforce infrastructural or intra-app dependencies during failover
- Describe vSphere HA heartbeat networks and datastore heartbeats
- Examine the features and functions of vSphere Fault Tolerance
- Enable vSphere Fault Tolerance on virtual machines
- Support vSphere Fault Tolerance interoperability with vSAN
- Examine enhanced consolidation of vSphere Fault Tolerance virtual machines
- Examine the features and functions of vSphere Replication

10 vSphere DRS
- Describe the functions of a vSphere DRS cluster
- Create a vSphere DRS cluster
- View information about a vSphere DRS cluster
- Configure virtual machine affinity, DRS groups, and VM-host affinity rules
- Remove a host from a vSphere DRS cluster

11 vSphere Update Manager
- Describe the new architecture, components, and capabilities of vSphere Update Manager
- Use vSphere Update Manager to manage the patching of ESXi, virtual machines, and vApps
- Install vSphere Update Manager and the vSphere Update Manager plug-in
- Create patch baselines
- Use host profiles to manage host configuration compliance
- Examine the features and functions of vSphere Update Manager EAM integration
- Integrate vSphere Update Manager with vSphere DRS
- Scan and remediate hosts

12 vSphere Troubleshooting
- Define the scope of troubleshooting
- Use a structured approach to solve configuration and operational problems
- Identify troubleshooting methodology to logically diagnose faults and improve troubleshooting efficiency

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.