VMW-ICM - VMware vSphere: Install, Configure, Manage [V8]

Vmware - Vmware - Virtualizzazione e Cloud

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**VMware Certified Professional – Data Center Virtualization (VCP-DCV)**

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Descrizione del corso

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere 8, which includes VMware ESXi 8 and VMware vCenter 8. This course prepares you to administer a vSphere infrastructure for an organization of any size.
This course is the foundation for most VMware technologies in the software-defined data center.

Course Objectives

By the end of the course, you should be able to meet the following objectives:
• Install and configure ESXi hosts
• Deploy and configure vCenter
• Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
• Create virtual networks using vSphere standard switches and distributed switches
• Create and configure datastores using storage technologies supported by vSphere
• Use the vSphere Client to create virtual machines, templates, clones, and snapshots
• Create content libraries for managing templates and deploying virtual machines
• Manage virtual machine resource allocation
• Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
• Create and configure a vSphere cluster that is enabled with vSphere High Availability (HA) and vSphere Distributed Resource Scheduler
• Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

Target Audience

• System administrators
• System engineers

Prerequisites

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

Programma

VSPHERE AND VIRTUALIZATION OVERVIEW

- Explain basic virtualization concepts
- Describe how vSphere fits in the software-defined

- data center and the cloud infrastructure
- Recognize the user interfaces for accessing vSphere
- Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs

INSTALLING AND CONFIGURING ESXI

- Install an ESXi host
- Recognize ESXi user account best practices
- Configure the ESXi host settings using the DCUI and VMware Host Client

DEPLOYING AND CONFIGURING VCENTER

- Recognize ESXi hosts communication with vCenter
- Deploy vCenter Server Appliance
- Configure vCenter settings
- Use the vSphere Client to add and manage license keys
- Create and organize vCenter inventory objects
- Recognize the rules for applying vCenter permissions
- View vCenter logs and events

CONFIGURING VSPHERE NETWORKING

- Configure and view standard switch configurations
- Configure and view distributed switch configurations
- Recognize the difference between standard switches and distributed switches
- Explain how to set networking policies on standard and distributed switches

CONFIGURING VSPHERE STORAGE

- Recognize vSphere storage technologies
- Identify types of vSphere datastores
- Describe Fibre Channel components and addressing
- Describe iSCSI components and addressing
- Configure iSCSI storage on ESXi
- Create and manage VMFS datastores

- Configure and manage NFS datastores

DEPLOYING VIRTUAL MACHINES

- Create and provision VMs
- Explain the importance of VMware Tools
- Identify the files that make up a VM
- Recognize the components of a VM
- Navigate the vSphere Client and examine VM settings and options
- Modify VMs by dynamically increasing resources
- Create VM templates and deploy VMs from them
- Clone VMs
- Create customization specifications for guest operating systems
- Create local, published, and subscribed content libraries
- Deploy VMs from content libraries
- Manage multiple versions of VM templates in content libraries

MANAGING VIRTUAL MACHINES

- Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- Migrate VMs using vSphere vMotion
- Describe the role of Enhanced vMotion Compatibility in migrations
- Migrate VMs using vSphere Storage vMotion
- Take a snapshot of a VM
- Manage, consolidate, and delete snapshots
- Describe CPU and memory concepts in relation to a virtualized environment
- Describe how VMs compete for resources
- Define CPU and memory shares, reservations, and limits

DEPLOYING AND CONFIGURING VSPHERE CLUSTERS

- Create a vSphere cluster enabled for vSphere DRS and vSphere HA
- View information about a vSphere cluster
- Explain how vSphere DRS determines VM placement on hosts in the cluster
- Recognize use cases for vSphere DRS settings

- Monitor a vSphere DRS cluster
- Describe how vSphere HA responds to various types of failures
- Identify options for configuring network redundancy in a vSphere HA cluster
- Recognize vSphere HA design considerations
- Recognize the use cases for various vSphere HA settings
- Configure a vSphere HA cluster
- Recognize when to use vSphere Fault Tolerance

MANAGING THE VSPHERE LIFECYCLE

- Enable vSphere Lifecycle Manager in a vSphere cluster
- Describe features of the vCenter Update Planner
- Run vCenter upgrade prechecks and interoperability reports
- Recognize features of vSphere Lifecycle Manager
- Distinguish between managing hosts using baselines and managing hosts using images
- Describe how to update hosts using baselines
- Describe ESXi images
- Validate ESXi host compliance against a cluster image and update ESXi hosts
- Update ESXi hosts using vSphere Lifecycle Manager
- Describe vSphere Lifecycle Manager automatic recommendations
- Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware