VMW-ICM70 - VMware vSphere: Install, Configure, Manage [V7]

Vmware - Vmware - Virtualizzazione e Cloud

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

Descrizione del corso

This five-day course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7. This course prepares you to administer a vSphere infrastructure for an organization of any size. This course is the foundation for most of the other VMware technologies in the software-defined data center. Certifications: attending this course meets the training requirement to achieve the certification VMware Certified Professional – Data Center Virtualization (VCP-DCV). The course is offered in collaboration with Esprinet S.p.A., Vmware Authorized Training Centers (VATC).

Programma

1. Course Introduction

• Introductions and course logistics
• Course objectives

2. Introduction to vSphere and the Software-Defined Data Center

• Explain basic virtualization concepts
• Describe how vSphere fits into the software-defined data center and the cloud infrastructure
• Explain how vSphere interacts with CPUs, memory, networks, and storage
• Recognize the user interfaces for accessing the vCenter Server system and ESXi hosts

• Describe the ESXi host architecture
• Navigate the Direct Console User Interface (DCUI) to configure an ESXi host
• Recognize ESXi host user account best practices
• Install an ESXi host
• Use VMware Host Client™ to configure ESXi host settings

3. Virtual Machines

• Create and provision a virtual machine
• Explain the importance of VMware Tools™
• Install VMware Tools
• Identify the files that make up a VM
• Recognize the components of a VM
• Recognize virtual devices supported by a VM
• Describe the benefits and use cases for containers
• Identify the parts of a container system

4. vCenter Server

• Describe the vCenter Server architecture
• Discuss how ESXi hosts communicate with vCenter Server
• Deploy and configure vCenter Server Appliance
• Use vSphere Client to manage the vCenter Server inventory
• Add data center, organizational objects, and hosts to vCenter Server
• Use roles and permissions to enable users to access objects in the vCenter Server inventory
• Back up vCenter Server Appliance
• Monitor vCenter Server tasks, events, and appliance health
• Use VMware vCenter Server® High Availability to protect a vCenter Server Appliance

5. Configuring and Managing Virtual Networks

• Create and manage standard switches
• Describe the virtual switch connection types
• Configure virtual switch security, traffic-shaping, and load-balancing policies

• Compare vSphere distributed switches and 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 VMFS and NFS datastores
• Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
• Recognize the components of a VMware vSAN™ configuration

7. Virtual Machine Management

• Use templates and cloning to deploy new virtual machines
• Modify and manage virtual machines
• Create a content library and deploy virtual machines from templates in the library
• Use customization specification files to customize a new virtual machine
• Perform vSphere vMotion and vSphere Storage vMotion migrations
• Describe the Enhanced vMotion Compatibility feature
• Create and manage virtual machine snapshots
• Examine the features and functions of VMware vSphere® Replication™
• Describe the benefits of VMware vSphere® Storage APIs – Data Protection

8. Resource Management and Monitoring

• Discuss CPU and memory concepts in a virtualized environment
• Describe what overcommitment of a resource means
• Describe methods for optimizing CPU and memory usage
• Use various tools to monitor resource use
• Create and use alarms to report certain conditions or events

9. vSphere Clusters

• Describe the functions of a vSphere DRS cluster
• Create a vSphere DRS cluster
• Monitor a vSphere cluster configuration
• Describe options for making a vSphere environment highly available
• Explain the vSphere HA architecture

- Configure and manage a vSphere HA cluster
- Examine the features and functions of VMware vSphere® Fault Tolerance

10. vSphere Lifecycle Management

- Recognize the importance of vCenter Server Update Planner
- Describe how VMware vSphere® Lifecycle Manager™ works
- Describe how to update ESXi hosts using baselines
- Validate ESXi host compliance using a cluster image
- Describe how to upgrade VMware Tools and VM hardware

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