

VMware vSphere: Fast Track [V7] (VWVSFT)

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Live Training
- **Com certificação:** VMware Certified Professional – Data Center Virtualization (VCP-DCV)
- **Data:** 28 Jun. 2021 a 02 Jul. 2021
- **Preço:** 3950€
- **Horário:** Laboral - das 9h00 às 20h00
- **Nível:** Avançado
- **Duração:** 50 horas

This five-day, intensive course takes you from introductory to advanced VMware vSphere® 7 management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect.

This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7.

This course includes the exam for your certification:

- VMware Certified Professional – Data Center Virtualization (VCP-DCV)

Destinatários

- System administrators
- System engineers

Pré-requisitos

- System administration experience on Microsoft Windows or Linux operating systems
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Objetivos

By the end of the course, you should be able to meet the following objectives:

- Describe the software-defined data center (SDDC)
 - Explain the vSphere components and their function in the infrastructure
 - Install and configure VMware ESXi™ hosts
 - Deploy and configure VMware vCenter® Server Appliance™
 - Use VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
 - Manage, monitor, back up, and protect vCenter Server Appliance
 - Create virtual networks with vSphere standard switches
 - Describe the storage technologies supported by vSphere
 - Configure virtual storage using iSCSI and NFS storage
 - Create and manage VMware vSphere® VMFS datastores
 - Use the vSphere Client to create virtual machines, templates, clones, and snapshots
 - Create a content library and deploy virtual machines from templates in the library
 - Manage virtual machine resource use and manage resource pools
 - Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
 - Create and manage a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
 - Create virtual networks with VMware vSphere® Distributed Switch™ and enable distributed switch features
 - Discuss solutions for managing the vSphere life cycle
 - Use VMware vSphere® Lifecycle Manager™ to perform upgrades to ESXi hosts and virtual machines
 - Use host profiles to manage ESXi configuration compliance
 - Describe how vSphere storage APIs help storage systems integrate with vSphere
 - Configure and use virtual machine storage policies
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Course Introduction

- Introductions and course logistics
- Course objectives

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

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

vCenter Server

- Describe the vCenter Server architecture
- Discuss how ESXi hosts communicate with vCenter Server
- Deploy and configure vCenter Server Appliance
- Use the 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 vCenter Server High Availability to protect a vCenter Server Appliance

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

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

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 Enhanced vMotion Compatibility
- Create and manage virtual machine snapshots
- Examine the features and functions of VMware vSphere® Replication™
- Describe the benefits of vSphere Storage APIs – Data Protection

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

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

Network Scalability

- Configure and manage vSphere distributed switches
- Describe how VMware vSphere® Network I/O Control enhances performance
- Explain distributed switch features such as port mirroring and NetFlow

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

Host and Management Scalability

- Use host profiles to manage ESXi configuration compliance
- Create and manage resource pools in a cluster
- Describe how scalable shares work

Storage Scalability

- Explain why VMware vSphere® VMFS is a high-performance, scalable file system
- Explain VMware vSphere® Storage APIs – Array Integration, VMware vSphere® API for Storage Awareness™, and vSphere APIs for I/O Filtering

- Configure and assign virtual machine storage policies
- Create VMware vSAN™ storage policies
- Recognize components of the vSphere Virtual Volumes architecture
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control