



VMware vSphere: Optimize & Scale [v6.7] (VWVSOS)

- **Formato do curso:** Presencial
- **Localidade:** Porto
- **Data:** 13 Jan. 2020 a 17 Jan. 2020
- **Preço:** 2950€
- **Horário:** Laboral - das 9h00 às 18h00
- **Nível:** Avançado
- **Duração:** 40 horas

This five-day course will teach you advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will configure and optimize the VMware vSphere® 6.7 features that build a foundation for a truly scalable infrastructure, and you will discuss when and where these features have the greatest effect.

This course will deepen your understanding of vSphere and how its advanced features and controls can benefit your organization.

Destinatários

- Experienced system administrators, system engineers, system integrators

Pré-requisitos

This course requires completion of one of the following prerequisites:

- Understanding of concepts presented in the [VMware vSphere: Install, Configure, Manage \[V6.7\]](#) course
- Equivalent knowledge and administration experience with ESXi and vCenter Server

Experience with working at the command prompt is highly recommended

Objectivos

- Configure and manage vSphere networking and storage for a large and sophisticated enterprise
- Use VMware vSphere® Client™, VMware vSphere® Web Client, and VMware vSphere® ESXi™ Shell to manage vSphere
- Create a content library for deploying virtual machines
- Use VMware vSphere® Auto Deploy™ and host profiles to provision VMware ESXi™ hosts and manage ESXi host compliance

- Monitor and analyze key performance indicators for compute, storage, and networking resources for ESXi hosts
 - Optimize the performance of ESXi and VMware vCenter Server®
 - Harden the vSphere environment against security threats
 - Encrypt virtual machines for additional security
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Programa

Course Introduction

- Introductions and course logistics
- Course objectives
- Identify additional resources for after this course
- Identify other VMware Education offerings

Network Scalability

- Configure and manage vSphere distributed switches
- Explain distributed switch features such as port mirroring, LACP, QoS tagging, and NetFlow

Storage Scalability

- Explain VMware vSphere® Storage APIs – Array Integration and VMware vSphere® API for Storage Awareness™™, and vSphere APIs for I/O Filtering
- Configure and assign virtual machine storage policies
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control

Host and Management Scalability

- Define and use content libraries
- Describe and use host profiles
- Describe and use VMware vSphere® ESXi™
- Image Builder CLI and vSphere Auto Deploy

CPU Optimization

- Explain the CPU scheduler operation, NUMA support, and other features that affect CPU performance
- Use esxtop to monitor key CPU performance metrics

Memory Optimization

- Explain ballooning, memory compression, and host-swapping techniques for memory reclamation when memory is overcommitted
- Use esxtop to monitor key memory performance metrics

Storage Optimization

- Describe storage queue types and other factors that affect storage performance

- Use esxtop to monitor key storage performance metrics

Network Optimization

- Explain the performance features of network adapters
- Explain the performance features of vSphere networking
- Use esxtop to monitor key network performance metrics

vCenter Server Performance Optimization

- Identify the factors that influence vCenter Server performance
- Monitor VMware vCenter® Server Appliance™ resource usage

vSphere Security

- Configure ESXi host access and authorization
- Secure ESXi, vCenter Server, and virtual machines
- Use VMware Certificate Authority to configure vSphere certificate management
- Configure vSphere to encrypt virtual machines, core dumps, and VMware vSphere® vMotion® migrations