
VMware vSphere: Optimize & Scale

Duración: 5 Días **Código del Curso: VSOS** **Version: 6.7**

Temario:

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.

Note: This course is based on beta software.

Product Alignment

- ESXi 6.7
 - vCenter Server 6.7
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Dirigido a:

Experienced system administrators, system engineers, and system integrators

Objetivos:

- Configure and manage vSphere networking and storage for a large and sophisticated enterprise
 - Monitor and analyze key performance indicators for compute, storage, and networking resources for ESXi hosts
 - Use VMware vSphere® Client™, VMware vSphere® Web Client, and VMware vSphere® ESXi™ Shell to manage vSphere
 - Optimize the performance of ESXi and VMware vCenter Server®
 - Create a content library for deploying virtual machines
 - Harden the vSphere environment against security threats
 - Use VMware vSphere® Auto Deploy™ and host profiles to provision VMware ESXi™ hosts and manage ESXi host compliance
 - Encrypt virtual machines for additional security
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Prerequisitos:

You must complete 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 line is highly recommended.

Exámenes y certificación

This course prepares you for the following certification:

- VMware Certified Professional 6.5 – Data Center Virtualization (VCP6.5-DCV)
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Contenido:

1 Course Introduction

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

2 Network Scalability

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

3 Storage Scalability

- 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
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control

4 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
- 5 CPU Optimization
- Explain the CPU scheduler operation, NUMA support, and other features that affect CPU performance
- Use esxtop to monitor key CPU performance metrics

6 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

7 Storage Optimization

- Describe storage queue types and other factors that affect storage performance
- Use esxtop to monitor key storage performance metrics

8 Network Optimization

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

9 vCenter Server Performance Optimization

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

10 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

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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