
VMware vSphere: Optimize and Scale

Duración: 5 Días **Código del Curso: VSOS** **Version: 7** **Método de Impartición: Curso Remoto (Virtual)**

Temario:

This five-day VMware vSphere Optimize and Scale course teaches 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® 7 features that build a foundation for a truly scalable infrastructure, and you discuss when and where these features have the greatest effect. Attend this course to deepen your understanding of vSphere and learn how its advanced features and controls can benefit your organization.

This course aligns with the following products: ESXi 7, vCenter Server 7

Please Note : This training is also suitable for students who want to be trained on vSphere v6.5 or v6.7.

Curso Remoto (Abierto)

Nuestra solución de formación remota o virtual, combina tecnologías de alta calidad y la experiencia de nuestros formadores, contenidos, ejercicios e interacción entre compañeros que estén atendiendo la formación, para garantizar una sesión formativa superior, independiente de la ubicación de los alumnos.

Dirigido a:

Experienced system administrators, system engineers, and system integrators who wish to learn how to provide a highly available and scalable virtual infrastructure

Objetivos:

- **After completing this course you should be able to:**
 - Create and manage a content library for deploying virtual machines
 - Configure and manage vSphere networking and storage for a large and sophisticated enterprise
 - Manage VM resource usage with resource pools
 - Use VMware vSphere® Client™ to manage certificates
 - Monitor and analyze key performance indicators for compute, storage, and networking resources for ESXi hosts
 - Use Identity Federation to configure VMware vCenter Server® to use Microsoft ADFS
 - Optimize the performance of ESXi and VMware vCenter Server®
 - Use VMware vSphere® Trust Authority™ to secure the infrastructure for encrypted VMs
 - Discuss the purpose and capabilities of VMware vSphere® with Kubernetes and how it fits into the VMware Tanzu™ portfolio
 - Use host profiles to manage VMware ESXi™ host compliance
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Prerequisitos:

Attendees should meet the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage course or Equivalent knowledge and administration experience with ESXi and vCenter Server
 - Experience with working at the command line is highly recommended.
 - VSICM - VMware vSphere: Install, Configure, Manage
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Siguientes cursos recomendados:

- VSD - VMware vSphere: Design

Contenido:

Course Introduction

- Introductions and course logistics
- Course objectives

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

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
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control
- Discuss vSphere support for NVMe and iSER

Host and Management Scalability

- Use the vSphere Client to manage vSphere certificates
- Describe identity federation and recognize its use cases
- Configure identity federation
- Describe the benefits and use cases of vSphere Trust Authority
- Configure vSphere Trust Authority
- Use host profiles to manage ESXi configuration compliance
- Manage and update VM templates in content libraries
- Create and manage resource pools in a cluster

CPU Optimization

- Explain the CPU scheduler operation and other features that affect CPU performance
- Explain NUMA and vNUMA support
- 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 performance features of network adapters
- Explain the performance features of vSphere networking
- Use esxtop to monitor key network performance metrics

vCenter Server Performance Optimization

- Describe the factors that influence vCenter Server performance
- Use VMware vCenter® Server Appliance™ tools to monitor resource use

Introduction to vSphere with Kubernetes

- Differentiate between containers and virtual machines
- Identify the parts of a container system
- Recognize the basic architecture of Kubernetes
- Describe a basic Kubernetes workflow
- Describe the purpose of vSphere with Kubernetes and how it fits into the VMware Tanzu portfolio
- Explain the vSphere with Kubernetes supervisor cluster
- Describe the Tanzu Kubernetes Grid service

Más información:

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

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