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VMware vSphere: Optimize & Scale

Duration: 5 Days Course Code: VSOS Version: 7.0 Delivery Method: Virtual Learning

Overview:

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 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.

Product Alignment: ESXi 7vCenter Server 7

Remark: This training is also advised for students who want to be trained for vSphere v6.5 or v6.7. This training can also be used as preperation for a VMware VCP-Data Center Virtualization certification (VCP-DCV). If you work with, or are interested in a VMware vSphere 8 environment, we recommend you to attend this training

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Experienced system administrators System engineers System integrators

Objectives:

- By the end of the course, you should be able to meet the following objectives:
- Configure and manage vSphere networking and storage for a large and sophisticated enterprise
- Use VMware vSphere® Client™ to manage certificates
- Use Identity Federation to configure VMware vCenter Server® to use Microsoft ADFS
- Use VMware vSphere® Trust Authority™ to secure the infrastructure for encrypted VMs
- Use host profiles to manage VMware ESXiTM host compliance

- Create and manage a content library for deploying virtual machines
- Manage VM resource usage with resource pools
- Monitor and analyze key performance indicators for compute, storage, and networking resources for ESXi hosts
- Optimize the performance of ESXi and VMware vCenter Server®
- Discuss the purpose and capabilities of VMware vSphere® with Kubernetes and how it fits into the VMware Tanzu™ portfolio

Prerequisites:

You must complete one of the following prerequisites:

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V7] - VSICM course
- 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

Follow-on-Courses:

VSD - VMware vSphere: Design

Content:

1 Course Introduction	Describe identity federation and recognize its use cases	Use esxtop to monitor key storage performance metrics
Introductions and course logistics	Configure identity federation	8 Network Optimization
Course objectives	Describe the benefits and use cases of vSphere Trust Authority	Explain performance features of network adapters
2 Network Scalability		
Configure and manage vSphere distributed switches	Configure vSphere Trust Authority	Explain the performance features of vSphere networking
Describe how VMware vSphere® Network I/O	Use host profiles to manage ESXi configuration compliance	Use esxtop to monitor key network performance metrics
Control enhances performance	Manage and update VM templates in content libraries	9 vCenter Server Performance Optimization
Explain distributed switch features such as port mirroring and NetFlow	Create and manage resource pools in a	Describe the factors that influence vCenter
3 Storage Scalability	cluster	Server performance
Explain why VMware vSphere® VMFS is a high-performance, scalable file system	5 CPU Optimization	• Use VMware vCenter® Server Appliance™ tools to monitor resource use
Explain VMware vSphere® Storage APIs -	Explain the CPU scheduler operation and other features that affect CPU performance	10 Introduction to vSphere with Kubernetes
Array Integration, VMware vSphere® API for Storage	Explain NUMA and vNUMA support	Differentiate between containers and virtual machines
Awareness™, and vSphere APIs for I/O Filtering	Use esxtop to monitor key CPU performance metrics	Identify the parts of a container system
Configure and assign virtual machine storage policies	6 Memory Optimization	Recognize the basic architecture of Kubernetes
Create VMware vSAN™ storage policies	 Explain ballooning, memory compression, and host-swapping techniques for memory reclamation when 	Describe a basic Kubernetes workflow
Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control	memory is overcommitted	Describe the purpose of vSphere with Kubernetes and how it fits into the VMware Tanzu portfolio
Discuss vSphere support for NVMe and iSER	Use esxtop to monitor key memory performance metrics	Explain the vSphere with Kubernetes supervisor cluster
4 Host and Management Scalability	7 Storage Optimization	Describe the Tanzu Kubernetes Grid service
Use the vSphere Client to manage vSphere certificates	Describe storage queue types and other factors that affect storage performance	

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Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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