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VMware vSphere: Optimize & Scale

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

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 preparation 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 ESXi[™] 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 Use esxtop to monitor key storage its use cases performance metrics · Introductions and course logistics · Configure identity federation 8 Network Optimization · Course objectives · Describe the benefits and use cases of · Explain performance features of network vSphere Trust Authority adapters 2 Network Scalability Configure vSphere Trust Authority · Explain the performance features of · Configure and manage vSphere distributed vSphere networking switches · Use host profiles to manage ESXi configuration compliance Use esxtop to monitor key network Describe how VMware vSphere® Network I/O 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 cluster Server performance 3 Storage Scalability 5 CPU Optimization • Explain why VMware vSphere® VMFS is a tools to monitor resource use high-performance, scalable file system · Explain the CPU scheduler operation and other features that affect CPU performance 10 Introduction to vSphere with Kubernetes • Explain VMware vSphere® Storage APIs -Array Integration, VMware vSphere® API for · Differentiate between containers and virtual Storage · Explain NUMA and vNUMA support machines Awareness™, and vSphere APIs for I/O · Use esxtop to monitor key CPU Filterina performance metrics · Identify the parts of a container system · Configure and assign virtual machine storage 6 Memory Optimization · Recognize the basic architecture of policies **Kubernetes** · Explain ballooning, memory compression, Create VMware vSAN[™] storage policies and host-swapping techniques for memory · Describe a basic Kubernetes workflow reclamation when Configure VMware vSphere® Storage DRS[™] • Describe the purpose of vSphere with and VMware vSphere® Storage I/O Control Kubernetes and how it fits into the VMware memory is overcommitted 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 Describe the Tanzu Kubernetes Grid 7 Storage Optimization service • Use the vSphere Client to manage vSphere certificates · Describe storage queue types and other factors that affect storage performance

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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