

VMware vSphere: Optimize & Scale

Varighed: 5 Days Kursus Kode: VSOS Version: 7 Leveringsmetode: Virtuel deltagelse

Beskrivelse:

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 7 vCenter Server 7

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

Målgruppe:

Experienced system administrators System engineers System integrators

Agenda:

- 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

Forudsætninger:

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

Yderligere Kurser:

- VSD - VMware vSphere: Design
-

Indhold:

1 Course Introduction

- Introductions and course logistics

- Course objectives

2 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

3 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

4 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

5 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

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 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

- Use VMware vCenter® Server Appliance™ tools to monitor resource use

10 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

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

www.globalknowledge.com/da-dk/

Global Knowledge, Stamholmen 110, 2650 Hvidovre