

VMware vSphere: Install, Configure, Manage

Cursusduur: 5 Dagen Cursuscode: VSICM Version: 7

Beschrijving:

This five-day VMware vSphere foundation course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 7, which includes VMware ESXi™ 7 and VMware vCenter Server® 7. This VMware course prepares you to administer a vSphere infrastructure for an organization of any size.

This course is the foundation for most of the other VMware technologies in the software-defined data center.

Product Alignment: ESXi 7 vCenter 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 are working with, or are interested in a VMware vSphere 8 environment, we recommend you to attend [this training](#).

Doelgroep:

System administrators System engineers

Doelstelling:

- By the end of the course, you should be able to meet the following objectives:
- Describe the software-defined data center (SDDC)
- Explain the vSphere components and their function in the infrastructure
- Install and configure VMware ESXi™ hosts
- Deploy and configure VMware vCenter® Server Appliance™
- Use VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
- Manage, monitor, back up, and protect vCenter Server Appliance
- Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere
- Configure virtual storage using iSCSI and NFS storage
- Create and manage VMware vSphere® VMFS datastores
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Create a content library and deploy virtual machines from templates in the library
- Manage virtual machine resource use
- Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Create and manage a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
- Discuss solutions for managing the vSphere life cycle
- Use VMware vSphere® Update Manager™ to apply patches and perform upgrades to ESXi hosts and virtual machines

Vereiste kennis en vaardigheden:

This course has the following prerequisites:

- System administration experience on Microsoft Windows or Linux operating systems

Examens en certificering

-

Vervolgcurssussen:

- VSD - VMware vSphere: Design
 - VSOS - VMware vSphere: Optimize and Scale
 - VST - VMware vSphere: Troubleshooting
-

Cursusinhoud:

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Introduction to vSphere and the Software-Defined Data Center

- Explain basic virtualization concepts
- Describe how vSphere fits into the software-defined data center and the cloud infrastructure
- Explain how vSphere interacts with CPUs, memory, networks, and storage
- Recognize the user interfaces for accessing the vCenter Server system and ESXi hosts
- Use VMware Host Client™ to access and manage ESXi host

3 Virtual Machines

- Create and remove a virtual machine
- Provision a virtual machine with virtual devices
- Identify the files that make up a virtual machine
- Explain the importance of VMware Tools™

4 vCenter Server

- Describe the vCenter Server architecture
- Discuss how ESXi hosts communicate with vCenter Server
- Deploy and configure vCenter Server Appliance

- Back up vCenter Server Appliance
- Monitor vCenter Server tasks, events, and appliance health
- Use vCenter Server High Availability to protect a vCenter Server Appliance

5 Configuring and Managing Virtual Networks

- Create and manage standard switches
- Describe the virtual switch connection types
- Configure virtual switch security, traffic-shaping and load-balancing policies
- Compare vSphere distributed switches and standard switches

6 Configuring and Managing Virtual Storage

- Identify storage protocols and storage device types
- Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
- Create and manage VMFS and NFS datastores
- Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
- Deploy virtual machines on a VMware vSAN™ datastore

7 Virtual Machine Management

- Use templates and cloning to deploy new virtual machines
- Modify and manage virtual machines
- Create a content library and deploy virtual machines from templates in the library

- Create and manage virtual machine snapshots

- Examine the features and functions of VMware vSphere® Replication™

8 Resource Management and Monitoring

- Discuss CPU and memory concepts in a virtualized environment
- Describe what overcommitment of a resource means
- Describe methods for optimizing CPU and memory usage
- Use various tools to monitor resource use
- Create and use alarms to report certain conditions or events

9 vSphere Cluster

- Describe options for making a vSphere environment highly available
- Explain the vSphere HA architecture
- Configure and manage a vSphere HA cluster
- Examine the features and functions of VMware vSphere® Fault Tolerance
- Configure a vSphere cluster using ESXi Cluster Quickstart

- Describe the functions of a vSphere DRS cluster

- Create a vSphere DRS cluster

10 vSphere Lifecycle

- Describe how VMware vSphere® Lifecycle

- Use the vSphere Client to manage the vCenter Server inventory

- Add data center, organizational objects, and hosts to vCenter Server

- Use roles and permissions to enable users to access objects in the vCenter Server inventory

- Dynamically increase the size of a virtual disk

- Use customization specification files to customize a new virtual machine

- Perform vSphere vMotion and vSphere Storage vMotion migrations

Manager™ works

- Use vSphere Lifecycle Manager to update ESXi hosts in a cluster

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

Iepenhoeve 5, 3438 MR Nieuwegein