



VMware vSphere: Install, Configure, Manage V7

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This course provides intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 7.x, including VMware ESXi™ 7.x and VMware vCenter Server® 7.x.

The training prepares you to manage a vSphere infrastructure for a company of any size. It is the basis for most of the other VMware technologies in the software-defined data center. The seminar is recognized as a prerequisite for certification as VMware Certified Professional Data Center Virtualization (VCP-DCV).

Course Contents

- Course Introduction
- Introduction to vSphere and the Software-Defined Data Center
- Virtual Machines
- vCenter Server
- Configuring and Managing Virtual Networks
- Configuring and Managing Virtual Storage
- Virtual Machine Management
- Resource Management and Monitoring
- vSphere Cluster
- vSphere Lifecycle

E-Book You will receive the documentation of VMware in English language as an e-book.

Target Group

- System administrators
- System technician

Prerequisites

System administrators with experience with Microsoft Windows or Linux operating systems.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.expertech-training.com/go/VICM

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
Classes in Germany	5 Days	€ 3,295
Classes in Austria	5 Days	€ 3,295
Online Training	5 Days	€ 3,295
Date/course venue	Course language German 	
22/04-26/04/24	Düsseldorf	02/09-06/09/24
22/04-26/04/24	Online	09/09-13/09/24
13/05-17/05/24	Frankfurt	09/09-13/09/24
13/05-17/05/24	Online	23/09-27/09/24
21/05-24/05/24	München	23/09-27/09/24
21/05-24/05/24	Online	07/10-11/10/24
03/06-07/06/24	Berlin	07/10-11/10/24
03/06-07/06/24	Hamburg	07/10-11/10/24
03/06-07/06/24	Online	21/10-25/10/24
10/06-14/06/24	Online	21/10-25/10/24
10/06-14/06/24	Wien	28/10-01/11/24
24/06-28/06/24	Düsseldorf	28/10-01/11/24
24/06-28/06/24	Online	04/11-08/11/24
08/07-12/07/24	Frankfurt	04/11-08/11/24
08/07-12/07/24	Online	04/11-08/11/24
22/07-26/07/24	München	11/11-15/11/24
22/07-26/07/24	Online	11/11-15/11/24
22/07-26/07/24	Stuttgart	25/11-29/11/24
12/08-16/08/24	Hamburg	25/11-29/11/24
12/08-16/08/24	Online	09/12-13/12/24
19/08-23/08/24	Düsseldorf	09/12-13/12/24
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Status 04/14/2024



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VMware vSphere: Install, Configure, Manage V7

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

