

VMware vSphere: Fast Track V8

VMware vSphere: Fast Track V8



This five-day intensive course with extended course hours from 8am - 6pm will take you from introduction to advanced management of VMware vSphere. Building on the installation and configuration content from our best-selling course, you will also develop the skills necessary to manage and maintain a highly available and scalable virtual infrastructure. Through a mixture of lessons and hands-on exercises, you will install, configure and manage vSphere. You will explore the features that form the foundation of a truly scalable infrastructure and discuss when and where these features have the greatest impact. This course prepares you to administer a vSphere infrastructure for any size organization with vSphere 8.x, which includes VMware ESXi 8.x and VMware vCenter Server 8.x.

Attendance at this course is recommended to achieve the following certification: VMware Certified Professional Data Center Virtualization (VCP-DCV) recognized.

Course Contents

- Course Introduction
- vSphere and Virtualization Overview
- vCenter Management
- Configure and Manage vSphere Networking
- Configure and Manage vSphere Storage
- Deploying Virtual Machines
- Managing Virtual Machines
- vSphere Cluster Management
- Managing the vSphere Lifecycle
- Network Operations
- Storage Operations
- ESXi Operations
- vSphere Monitoring

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

Target Group

- System administrators
- System engineers

Prerequisites

Experience in system administration 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/VMFA

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	€ 4,395	
Classes in Austria	5 Days	€ 4,395	
Classes in Switzerland	5 Days	€ 5,250	
Online Training	5 Days	€ 4,395	
Date/course venue	Course language German 		
18/08-22/08/25	Düsseldorf	19/01-23/01/26	Online
18/08-22/08/25	Online	23/02-27/02/26	Hamburg
29/09-03/10/25	Online	23/02-27/02/26	Online
29/09-03/10/25	Wien	13/04-17/04/26	Frankfurt
03/11-07/11/25	Frankfurt	13/04-17/04/26	Online
03/11-07/11/25	Online	18/05-22/05/26	Online
03/11-07/11/25	Zürich	18/05-22/05/26	Wien
08/12-12/12/25	München	29/06-03/07/26	München
08/12-12/12/25	Online	29/06-03/07/26	Online
19/01-23/01/26	Düsseldorf		

Status 06/19/2025



Table of Contents

VMware vSphere: Fast Track V8

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 Clusters

- 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 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

11 vSphere Lifecycle Management

- Describe how VMware vSphere® Lifecycle Manager™ works
- Use vSphere Lifecycle Manager to update ESXi hosts in a cluster

12 Host and Management Scalability

- Use host profiles to manage ESXi configuration compliance
- Create and manage resource pools in a cluster

13 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

14 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

