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VMware vSphere: Fast Track 8

CODE:	LÄNGE:	PREIS:
VMW_VSFT7	40 Hours (5 Tage)	€4,300.00

Description

This five-day, extended hour course takes you from introductory to advanced VMware vSphere® 8 management skills. Building on the installation and configuration content from our best-selling course, you will also develop advanced skills needed to manage and maintain a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will install, configure, and manage vSphere 7. You will explore the features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect. This course prepares you to administer a vSphere infrastructure for an organization of any size using vSphere 8, which includes VMware ESXi™ 8 and VMware vCenter Server® 8.

Lernziel

By the end of the course, you should be able to meet the following objectives:
  • Install and configure ESXi hosts
  • Deploy and configure vCenter
  • Use the vSphere Client to create the vCenter inventory and assign roles to vCenter users
  • Configure vCenter High Availability
  • Create and configure virtual networks using vSphere standard switches and distributed switches
  • Create and configure datastores using storage technologies supported by vSphere
  • Use the vSphere Client to create virtual machines, templates, clones, and snapshots
  • Configure and manage a VMware Tools Repository
  • Create content libraries for managing templates and deploying virtual machines
  • Manage virtual machine resource use
  • Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
  • Create and configure a vSphere cluster that is enabled with vSphere High Availability and vSphere Distributed Resource Scheduler
  • Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date
  • Configure and manage vSphere networking and storage for a large and sophisticated enterprise
  • Use host profiles to manage VMware ESXi host compliance
  • Monitor the vCenter, ESXi, and VMs performance in the vSphere client

Zielgruppe

  • System administrators
  • System engineers

Voraussetzungen

This course has the following prerequisites:
  • System administration experience on Microsoft Windows or Linux operating systems

Inhalt

Course Modules 1 Course Introduction
  • Introductions and course logistics
  • Course objectives   2 vSphere and Virtualization Overview
  • Explain basic virtualization concepts
  • Describe how vSphere fits in the software-defined data center and the cloud infrastructure
  • Recognize the user interfaces for accessing vSphere
  • Explain how vSphere interacts with CPUs, memory, networks, storage, and GPUs
  • Install an ESXi host   3 vCenter Management

- Recognize ESXi hosts communication with vCenter
- Deploy vCenter Server Appliance
- Configure vCenter settings
- Use the vSphere Client to add and manage license keys
- Create and organize vCenter inventory objects
- Recognize the rules for applying vCenter permissions
- View vSphere tasks and events
- Create a vCenter backup schedule
- Recognize the importance of vCenter High Availability
- Explain how vCenter High Availability works   4 Configure and Manage vSphere Networking
- Configure and view standard switch configurations
- Configure and view distributed switch configurations
- Recognize the difference between standard switches and distributed switches
- Explain how to set networking policies on standard and distributed switches   5 Configure and Manage vSphere Storage
- Recognize vSphere storage technologies
- Identify types of vSphere datastores
- Describe Fibre Channel components and addressing
- Describe iSCSI components and addressing
- Configure iSCSI storage on ESXi
- Create and manage VMFS datastores
- Configure and manage NFS datastores
- Discuss vSphere support for NVMe and iSER technologies 6 Deploying Virtual Machines
- Create and provision VMs
- Explain the importance of VMware Tools
- Identify the files that make up a VM
- Recognize the components of a VM
- Navigate the vSphere Client and examine VM settings and options
- Modify VMs by dynamically increasing resources
- Create VM templates and deploy VMs from them
- Clone VMs
- Create customization specifications for guest operating systems
- Create local, published, and subscribed content libraries
- Deploy VMs from content libraries
- Manage multiple versions of VM templates in content libraries   7 Managing Virtual Machines
- Recognize the types of VM migrations that you can perform within a vCenter instance and across vCenter instances
- Migrate VMs using vSphere vMotion
- Describe the role of Enhanced vMotion Compatibility in migrations
- Migrate VMs using vSphere Storage vMotion
- Take a snapshot of a VM
- Manage, consolidate, and delete snapshots
- Describe CPU and memory concepts in relation to a virtualized environment
- Describe how VMs compete for resources
- Define CPU and memory shares, reservations, and limits
- Recognize the role of a VMware Tools Repository
- Configure a VMware Tools Repository
- Recognize the backup and restore solution for VMs
  - Use Cluster Quickstart to enable vSphere cluster services and configure the cluster
  - View information about a vSphere cluster
  - Explain how vSphere DRS determines VM placement on hosts in the cluster
  - Recognize use cases for vSphere DRS settings
  - Monitor a vSphere DRS cluster
  - Describe how vSphere HA responds to different types of failures
  - Identify options for configuring network redundancy in a vSphere HA cluster
  - Recognize the use cases for various vSphere HA settings
  - Configure a cluster enabled for vSphere DRS and vSphere HA
  - Recognize when to use vSphere Fault Tolerance
  - Describe the function of the vCLS

8 vSphere Cluster Management   • Recognize operations that might disrupt the healthy functioning of vCLS VMs

9 Managing the vSphere Lifecycle
- Generate vCenter interoperability reports
- Recognize features of vSphere Lifecycle Manager
- Describe ESXi images and image depots
- Enable vSphere Lifecycle Manager in a vSphere cluster
- Validate ESXi host compliance against a cluster image and remediate ESXi hosts using vSphere Lifecycle Manager
- Describe vSphere Lifecycle Manager automatic recommendations
- Use vSphere Lifecycle Manager to upgrade VMware Tools and VM hardware

- Configure and manage vSphere distributed switches
- Describe how VMware vSphere Network I/O Control enhances performance
- Define vSphere Distributed Services Engine

10 Network Operations • Describe the use cases and benefits of vSphere Distributed Services Engine 11 Storage Operations
- Describe the architecture and requirements of vSAN configuration
- Describe storage policy-based management
- Recognize components in the vSphere Virtual Volumes architecture
- Configure Storage I/O Control   12 ESXi Operations
- Use host profiles to manage ESXi configuration compliance
- Recognize the benefits of using configuration profiles   13 vSphere Monitoring
- Monitor the key factors that can affect a virtual machine's performance
- Describe the factors that influence vCenter performance
- Use vCenter tools to monitor resource use
- Create custom alarms in vCenter
- Describe the benefits and capabilities of VMware Skyline
- Recognize uses for Skyline Advisor Pro

Test und Zertifizierung

Attending this course meets the training requirement to achieve the following certification: • VMware Certified Professional – Data Center Virtualization (VCP-DCV)

Kurstermine

Datum	Lokation	Time Zone	Sprache	Type	Durchführungsgarantie	PREIS
03 Jun 2024	Wien	CEDT	German	Classroom		€4,300.00
03 Jun 2024	Wien	CEDT	German	Instructor Led Online		€4,300.00
21 Oct 2024	Wien	CEDT	German	Classroom		€4,300.00
21 Oct 2024	Wien	CEDT	German	Instructor Led Online		€4,300.00

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.