

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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VMware Data Center Virtualization: Core Technical Skills

CODE: LÄNGE: PREIS:

VMW DCVCTS 32 Hours (4 Tage) €2,595.00

Description

Lernziel

By the end of the course, you should be able to meet the following objectives:

- · Describe virtualization and virtual machines
- Describe vSphere components and the software-defined data center (SDDC)
- Explain the concepts of server, network, and storage virtualization
- Monitor network and datastore configurations in VMware vSphere® Client™
- · Deploy, configure, and clone virtual machines
- · Migrate, monitor, and manage virtual machines
- Monitor tasks and events in VMware vSphere® Client™
- Recognize how vSphere DRS and VMware vSphere® High Availability improve performance and availability of a vSphere cluster

Zielgruppe

Technical professionals with basic system administration skills and operators responsible for managing virtual machines using VMware ESXi™ and VMware vCenter Server®

Voraussetzungen

This course has the following prerequisites:

- · Working knowledge of operating systems
- · Understanding of basic network, storage, and computer hardware concepts

Inhalt

- 1 Course Introduction
- · Introductions and course logistics
- · Course objectives
- 2 Virtualization and vSphere Concepts
- · Describe how virtual machines (VMs) work
- Recognize the purpose of a hypervisor
- Describe how VMs share resources in a virtualized environment
- · Recognize the components of an SDDC
- Describe the relationship between vSphere, the SDDC, and cloud computing
- Recognize the functions of the components in a vSphere environment
- · Access and view vSphere graphical user interfaces
- · Identify VMware solutions that integrate with vSphere in the SDDC
- 3 Navigating the vSphere Client
- View and organize the inventory objects managed by vCenter Server
- · Add and assign vSphere licenses
- Change the log level of vCenter Server
- · Edit the startup policy of ESXi services
- · Describe how vCenter Server roles and permissions work
- · Add permissions to virtual machines

- 4 Lifecycle of Virtual Machines
- · Add and remove VM virtual hardware components
- · Identify the purpose of different VM files
- Configure VM settings
- · Create and delete virtual machines
- Recognize the benefits of installing VMware Tools™
- Install VMware Tools into a guest operating system
- Upgrade VMware Tools and VM hardware compatibility
- 5 vSphere Networking
- · Describe virtual networking
- Recognize ways that virtual switches connect VMs and ESXi hosts to the network
- · View components and properties of a vSphere standard switch configuration
- · View a vSphere distributed switch configuration in vSphere Client
- · Recognize when and how to use the settings for the security networking policy
- · Recognize when and how to use the settings for the traffic shaping networking policy
- · Describe how the NIC teaming and failover policy helps maintain network connectivity
- · Perform basic checks to diagnose VM connectivity issues
- 6 vSphere Storage
- · Describe the function of a datastore
- · Recognize types of vSphere datastores
- · View datastore information in vSphere Client
- · Monitor datastore usage in vSphere Client
- 7 Virtual Machine Management
- · Recognize the benefits of using VM templates
- · Create and update a VM template
- Deploy a VM from an existing template
- · Clone a virtual machine
- · Recognize how to use guest OS customization specifications
- · Deploy VMs from a content library
- · Deploy a virtual appliance from an OVF template
- · Perform a hot and cold migrations of VMs
- Identify requirements for using VMware vSphere® Storage vMotion®
- Perform a vSphere Storage vMotion migration
- · Identify use cases for VM snapshots
- · Create and manage snapshots of a virtual machine
- 8 Resource Monitoring
- Recognize the purpose of each type of VM resource control
- · Configure the resource allocation settings of a VM
- · Observe the behavior of virtual machines with different share values
- Manage and acknowledge vSphere alarms
- · Use performance charts to monitor VM CPU and memory usage
- · Monitor tasks and events in vSphere Client
- 9 vSphere Clusters
- · View information about the services that a vSphere cluster offers
- · Recognize how vSphere HA responds to different types of failures
- Monitor vSphere HA during a host failure
- · Describe how vSphere DRS works
- Interpret DRS scores given to VMs
- Recognize how to apply the appropriate vSphere DRS automation and migration threshold levels
- · Describe how vSphere Fault Tolerance works
- · Recognize how Enhanced vMotion Compatibility works

Test und Zertifizierung

Attending this course is recommended to achieve the following certification:

VMware Certified Technical Associate - Data Center Virtualization (VCTA-DCV)

Kurstermine

Auf Anfrage. Bitte kontaktieren Sie uns

Zusätzliche Information

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