VMware vSphere: Advanced Administration [V8] (VSAA8)

ID VSAA8 **Price** CHF 4,400.—(excl. VAT) **Duration** 5 days

Who should attend

- System administrators
- System engineers

This course is part of the following Certifications

VMware Certified Professional – Data Center Virtualization (VCP-DCV)

Prerequisites

This course requires completion of the following prerequisites:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Operate, Scale, and Secure
- Working knowledge of VMware vSAN™
- System administration experience on Microsoft Windows or Linux operating systems

Course Objectives

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

- Configure VMware vCenter® and VMware ESXi™
- Configure and manage a vSphere cluster solution for vSphere HA, vSphere DRS, and vSAN
- Configure vSphere storage and networking
- Perform lifecycle operations on vSphere components
- Troubleshoot vSphere infrastructure and connectivity issues
- Back up vCenter configurations
- Implement solutions for securing the vSphere infrastructure

Course Content

Course Introduction

- Introductions and course logistics
- Course objectives

Creating and Configuring Management Clusters

- Create a vSphere cluster for management workloads
- Activate vSphere cluster features that help to improve resource allocation and availability of virtual machines
- Use standard virtual switches to create networking in a cluster
- Select the appropriate vSphere storage types to meet requirements
- Configure iSCSI storage
- Configure VMFS and NFS datastores
- Recognize when to configure ESXi NTP and PTP support
- Recognize ESXi user account best practices
- Configure ESXi host settings
- Use vSphere configuration profiles to maintain consistent ESXi host configurations

Creating and Configuring Production Clusters

- Use Cluster Quickstart to create a vSAN-activated cluster
- Configure advanced vSphere HA settings
- Configure the vCenter identity provider
- Assign specific permissions and roles to Active Directory Federation Services (ADFS) users
- Configure Enhanced vMotion Compatibility on a cluster and a VM
- Perform a Cross vCenter Server migration
- Use content libraries to share virtual machine templates between sites
- Manage VM and ESXi host resources using resource pools, scalable shares, and vSphere DRS rules

Troubleshooting vSphere and Backing Up Configurations

- Troubleshoot ESXi connectivity issues
- Troubleshoot ESXi storage issues
- Troubleshoot vSphere cluster issues
- Troubleshoot PowerCLI issues
- Generate vCenter and ESXi log bundles
- Back up vCenter
- Create a vCenter profile to standardize configurations in the environment

Lifecycle Management

- Troubleshoot upgrade-blocking issues
- Increase logging levels on vCenter
- Configure a VMware Tools™ shared repository
- Upgrade vCenter

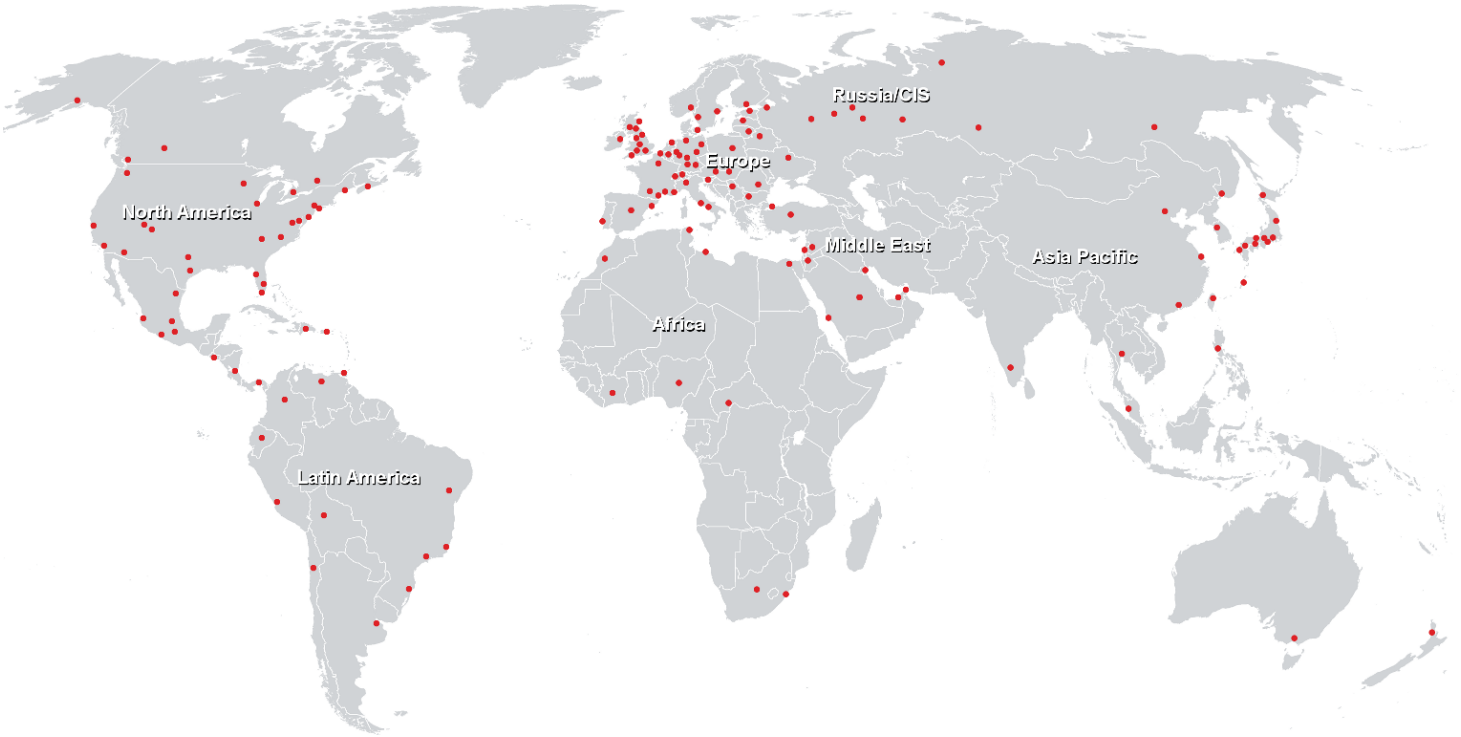
- Upgrade ESXi
- Upgrade VMware Tools
- Upgrade virtual machine hardware compatibility

vSphere Security

- Configure a key management server
- Encrypt virtual machines using vSphere VM encryption
- Secure VMs in transit with encrypted vSphere vMotion
- Identify and implement different ESXi CPU scheduler options
- Apply security hardening guidelines to ESXi hosts
- Replace vCenter certificates with trusted CA-signed certificates
- Reconfigure the primary network identifier for a vCenter instance

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Training Centres worldwide





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