

Szkolenie: HPE
VMware vSphere: Install, Configure, Manage [V8]



DOSTĘPNE TERMINY

2024-11-18 | 5 dni | Warszawa / Wirtualna sala (Termin gwarantowany)
2024-12-16 | 5 dni | Warszawa / Wirtualna sala

Cel szkolenia:

This course features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 8, which includes VMware ESXi 8 and VMware vCenter 8. This course prepares you to administer a vSphere infrastructure for an organization of any size.

This course is the foundation for most VMware technologies in the software-defined data center.

Course objectives

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

- Install and configure ESXi hosts
- Deploy and configure vCenter
- Use the vSphere client to create the vCenter inventory and assign roles to vCenter users
- Create 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
- Create content libraries for managing templates and deploying virtual machines
- Manage virtual machine resource allocation
- Migrate virtual machines with vSphere vMotion and vSphere Storage vMotion
- Create and configure a vSphere cluster that is enabled with vSphere High Availability (HA) and vSphere Distributed Resource Scheduler
- Manage the life cycle of vSphere to keep vCenter, ESXi hosts, and virtual machines up to date

Audience

- System administrators
- System engineers

Plan szkolenia:

- Course Introduction
 - Introduction and course logistics
 - Course objectives
- 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
- Installing and Configuring ESXi
 - Install an ESXi host
 - Recognize ESXi user account best practices
 - Configure the ESXi host settings using the DCUI and VMware Host Client
- Deploying and Configuring vCenter
 - 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 vCenter logs and events
- Configuring 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
- Configuring 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

- 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
- 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
- Deploying and Configuring vSphere Clusters
 - Create a vSphere cluster enabled for vSphere DRS and vSphere High Availability (HA)
 - 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 various types of failures
 - Identify options for configuring network redundancy in a vSphere HA cluster
 - Recognize vSphere HA design considerations
 - Recognize the use cases for various vSphere HA settings
 - Configure a vSphere HA cluster
 - Recognize when to use vSphere Fault Tolerance
- Managing the vSphere Lifecycle

- Enable vSphere Lifecycle Manager in a vSphere cluster
- Describe features of the vCenter Update Planner
- Run vCenter upgrade prechecks and interoperability reports
- Recognize features of vSphere Lifecycle Manager
- Distinguish between managing hosts using baselines and managing hosts using images
- Describe how to update hosts using baselines
- Describe ESXi images
- Validate ESXi host compliance against a cluster image and update ESXi hosts
- Update ESXi hosts using vSphere Lifecycle Manager
- Describe vSphere Lifecycle Manager automatic recommendations
- Use vSphere Lifecycle Manager to upgrade VMware tools and VM hardware

Wymagania:

System administration experience on Microsoft Windows or Linux operating systems is a prerequisite for this course.

Poziom trudności



Certyfikaty:

After completing the course, participants receive a certificate of completion of an authorized VMware course.

Prowadzący:

Authorized VMware Trainer.