Szkolenie: HPE
VMware vSphere: What's New [V8]

Hewlett Packard Enterprise

Cel szkolenia:

In this course, you explore the new features and enhancements following VMware vCenter Server 8.0 and VMware ESXi 8.0. Realworld use-case scenarios, hands-on lab exercises, and lectures teach you the skills needed to effectively implement and configure VMware vSphere 8.0.

Course objectives

By the end of this course, you will be able to:

- Recognize the importance of key features and enhancements in vSphere 8.0
- Describe vCenter Server, VMware ESXi, storage, virtual machine, and security enhancements in vSphere 8.0
- Describe the purpose of vSphere Distributed Services Engine
- Update an ESXi host equipped with a data processing unit (DPU) using vSphere Lifecycle Manager
- Identify devices supported for system storage on ESXi 8.0
- Recognize enhancements to VM hardware compatibility settings
- VMware vSphere Memory Monitoring and Remediation and the improvements to vSphere DRS
- Recognize the new Virtual Non-Uniform Memory Access (vNUMA) topology settings of a VM in vSphere Client
- Use vSphere Lifecycle Manager and Auto Deploy to manage the configuration specifications for the hosts in a cluster
- Recognize the vSphere Lifecycle Manager and Auto Deploy enhancements in vSphere 8.0
- Recognize the cloud benefits that VMware vSphere+ brings to on-premises workloads
- Recognize technology that is discontinued or deprecated in vSphere 8.0

Audience

- System architects, system administrators, IT managers, VMware partners, and individuals responsible for implementing and managing vSphere architectures who want to deploy vSphere 8.0 into their existing vSphere environment

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Plan szkolenia:

- Course Introduction
  - Introductions and course logistics
  - Course objectives
- Artificial Intelligence and Machine Learning
  - Describe how device groups support AI and ML in vSphere 8
  - Describe how device virtualization extensions support AI and ML in vSphere 8
- vSphere Distributed Services Engine
  - Describe the benefits of Distributed Services Engine
  - Explain how Distributed Services Engine works
  - Recognize use cases for Distributed Services Engine
  - Install ESXi on a host equipped with a DPU
  - View DPU information in vSphere Client
  - Add an ESXi host equipped with a DPU to a cluster
  - Update an ESXi host equipped with a DPU using vSphere Lifecycle Manager
  - Create a vSphere Distributed Switch for network offloads
  - Add a host with a DPU to the vSphere Distributed Switch
  - Configure a VM to use Uniform Passthrough Mode
- vSphere and vCenter Management
  - Review the improvements to the communication between vCenter and ESXi hosts
  - Review the enhancements to the vCenter recovery process
- ESXi Enhancements
  - Describe the function of the central configuration store in ESXi
  - Explain how ConfigStore affects your interaction with ESXi configuration files
  - Recognize the supported system storage partition configuration on ESXi 8.0
  - Identify devices supported for system storage on ESXi 8.0
  - Configure an RDMA host local device on ESXi
- vSphere Storage
  - Describe the vSAN Express Storage Architecture
  - Recognize the benefits of using vSAN Express Storage Architecture
  - Describe the benefits of using NVMe
  - Recognize the support for NVMe devices in vSphere
- Guest OS and Workloads
  - Review the enhancements of the latest virtual hardware versions
  - Describe the features introduced with virtual hardware version 20

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- Create a snapshot of a VM with an NVDIMM device
- Resource Management
  - View energy and carbon emission metrics in vRealize Operations Manager
  - Describe the VMware vSphere Memory Monitoring and Remediation (vMMR) functionality
  - Describe how vMMR enhances the performance of vSphere DRS
- Security and Compliance
  - Describe how to handle vTPM secrets when cloning a VM
  - Manage OVF templates for VMs that are configured with vTPM
  - Deploy an OVF template with vTPM
  - Describe the enhancements to trusted binary enforcement in ESXi
  - Describe ESXi 8 enhanced security features
- vSphere Lifecycle Manager
  - Describe the enhancements to life cycle management of standalone ESXi hosts
  - Manage the configuration profiles of ESXi hosts in a cluster with vSphere Lifecycle Manager
  - Use Auto Deploy to boot a host with the desired image and configuration specifications
  - Upgrade multiple ESXi hosts in a cluster in parallel
  - Stage an ESXi host image prior to remediation
- Auto Deploy
  - Manage custom host certificates using Auto Deploy
- vSphere with Tanzu
  - Describe the features of the Tanzu Kubernetes Grid 2.0 offering
- Announcing vSphere+
  - Describe the functionality and benefits of vSphere+

Wymagania:

This course requires completion of one of the following courses, or equivalent knowledge, plus administration experience with ESXi and vCenter Server:

- VMware vSphere: Install, Configure, Manage
- VMware vSphere: Optimize and Scale
- VMware vSphere: Fast Track
- VMware vSphere: Troubleshooting
- Experience with working at the command line is helpful.

The course material presumes that you can perform the following tasks with no assistance or guidance before enrolling in this course:

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- Install and configure ESXi
- Install vCenter Server
- Create vCenter Server objects, such as data centers and folders
- Create and manage vCenter Server roles and permissions
- Create and modify a standard switch
- Create and modify a distributed switch
- Connect an ESXi host to NAS, iSCSI, or fibre channel storage
- Create a VMware vSphere VMFS datastore
- Use a content library template to create a virtual machine
- Modify a virtual machine's hardware

Poziom trudności

Certyfikaty:

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

Prowadzący:

Authorized VMware Trainer.

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