TRAINING OFFERING

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VMware vSphere: Fast Track [V7]

Kod:	Czas trwania:	Cena netto:
VMW_VSFT7	40 Hours (5 days)	zł8,900.00

Description

This five-day, intensive course takes you from introductory to advanced VMware vSphere 7 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 7, which includes VMware ESXi 7 and VMware vCenter Server 7.

Cel szkolenia

By the end of the course, you should be able to meet the following objectives:
- Describe the software-defined data center (SDDC)-   Explain the vSphere components and their function in the infrastructure
- Describe the benefits and capabilities of VMware Skyline-   Install and configure VMware ESXi hosts
- Deploy and configure VMware vCenter Server Appliance
- Use VMware vSphere Client to manage the vCenter Server inventory and the vCenter Server configuration
- Manage, monitor, back up, and protect vCenter Server Appliance-   Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere-   Configure virtual storage using iSCSI and NFS storage
- Create and manage VMware vSphere VMFS datastores
- Use the vSphere Client to create virtual machines, templates, clones, and snapshots
- Create a content library and deploy virtual machines from templates in the library
- Manage virtual machine resource use and manage resource pools
- Migrate virtual machines with VMware vSphere vMotion and VMware vSphere Storage vMotion
- Create and manage a vSphere cluster that is enabled with VMware vSphere High Availability and VMware vSphere
- Distributed Resource Scheduler
- Create virtual networks with VMware vSphere Distributed Switch and enable distributed switch features
- Discuss solutions for managing the vSphere life cycle
- Use VMware vSphere Lifecycle Manager to perform upgrades to ESXi hosts and virtual machines
- Use host profiles to manage ESXi configuration compliance
- Describe how vSphere storage APIs help storage systems integrate with vSphere
- Configure and use virtual machine storage policies

Uczestnicy

- System administrators-   System engineers

Wymagania wstępne

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

Program szkolenia

1. Course Introductiono Introductions and course logisticso Course objectives
2. Introduction to vSphere and the Software-Defined Data Centero   Explain basic virtualization concepts
o Describe how vSphere fits into the software defined data center and the cloud infrastructure
o Explain how vSphere interacts with CPUs, memory, networks, and storage
o Recognize the user interfaces for accessing the vCenter Server system and ESXi hostso Describe the ESXi host architecture
o Navigate the Direct Console User Interface (DCUI) to configure an ESXi host
o Recognize ESXi host user account best practiceso Install an ESXi host
o Use VMware Host Client to configure ESXi host settings

o   Describe how to proactively manage your vSphere environment using VMware Skyline3. Virtual Machines
o   Create and provision a virtual machineo   Explain the importance of VMware Toolso   Install VMware Tools
o   Identify the files that make up a VMo   Recognize the components of a VMo   Recognize virtual devices supported by a VM
o   Describe the benefits and use cases for containerso   Identify the parts of a container system4. vCenter Server
o   Describe the vCenter Server architectureo   Discuss how ESXi hosts communicate with vCenter Server
o   Deploy and configure vCenter Server Applianceo   Use the vSphere Client to manage the vCenter Server inventory
o   Add data center, organizational objects, and hosts to vCenter Server
o   Use roles and permissions to enable users to access objects in the vCenter Server inventory
o   Back up vCenter Server Applianceo   Monitor vCenter Server tasks, events, and appliance health
o   Use vCenter Server High Availability to protect a vCenter Server Appliance5. Configuring and Managing Virtual Networks
o   Create and manage standard switcheso   Describe the virtual switch connection types
o   Configure virtual switch security, traffic-shaping and load-balancing policies
o   Compare vSphere distributed switches and standard switches6. Configuring and Managing Virtual Storage
o   Identify storage protocols and storage device typeso   Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
o   Create and manage VMFS and NFS datastoreso   Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
o   Recognize the components of a VMware vSAN configuration7. Virtual Machine Management
o   Use templates and cloning to deploy new virtual machineso   Modify and manage virtual machines
o   Create a content library and deploy virtual machines from templates in the library
o   Use customization specification files to customize a new virtual machine
o   Perform vSphere vMotion and vSphere Storage vMotion migrationso   Describe Enhanced vMotion Compatibility
o   Create and manage virtual machine snapshotso   Examine the features and functions of VMware vSphere Replication
o   Describe the benefits of vSphere Storage APIs – Data Protection8. Resource Management and Monitoring
o   Discuss CPU and memory concepts in a virtualized environmento   Describe what overcommitment of a resource means
o   Describe methods for optimizing CPU and memory usageo   Use various tools to monitor resource use
o   Create and use alarms to report certain conditions or events9. vSphere Clusters
o   Describe the functions of a vSphere DRS clustero   Create a vSphere DRS clustero   Monitor a vSphere cluster configuration
o   Describe options for making a vSphere environment highly availableo   Explain the vSphere HA architecture
o   Configure and manage a vSphere HA clustero   Examine the features and functions of VMware vSphere Fault Tolerance
o   Describe the function of the vSphere Cluster Service10. Network Scalability
o   Configure and manage vSphere distributed switches
o   Describe how VMware vSphere Network I/O Control enhances performance
o   Explain distributed switch features such as port mirroring and NetFlow11. vSphere Lifecycle Management
o   Recognize the importance of vCenter Server Update Plannero   Describe how VMware vSphere Lifecycle Manager works
o   Describe how to update ESXi hosts using baselineso   Validate ESXi host compliance using a cluster image
o   Describe how to upgrade VMware Tools and VM hardware
o   Describe VMware vSphere Lifecycle Manager and VMware vSAN integration12. Host and Management Scalability
o   Use host profiles to manage ESXi configuration complianceo   Create and manage resource pools in a cluster
o   Describe how scalable shares worko13. Storage Scalability
o   Explain why VMware vSphere VMFS is a high-performance, scalable file system
o   Explain VMware vSphere Storage APIs – Array Integration, VMware vSphere API for Storage Awareness, and vSphere APIs for I/O Filtering
o   Configure and assign virtual machine storage policieso   Create VMware vSAN storage policies
o   Recognize components of the vSphere Virtual Volumes architecture
Configure VMware vSphere Storage DRS and VMware vSphere Storage I/O Control

Test and Certification

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

Terminy

Na żądanie. Prosimy o kontakt

Dodatkowe informacje

Jeśli interesują Cię inne szkolenia tego producenta - skontaktuj się z nami.