

Tytuł szkolenia: VMware vSphere: Skills for Operators [V6] (EDU-VSO6) (VCP6-DCV)

Kod szkolenia: VT-SP-SFO6

Wprowadzenie

This two-day technical classroom training course is designed to help operators and administrators who create and manage virtual machines. By combining lecture and hands-on labs the course will help you gain the skills required to work effectively with VMware virtual machines. This course is based on VMware ESXi™ 6.0 and VMware vCenter Server™ 6.0.

After completing this course, you may enroll in advanced VMware vSphere® courses. For advanced vSphere course options, go to [www.vmware.com](http://www.vmware.com/education)

Adresaci szkolenia

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

Prerequisites:

- System administration experience on Microsoft, Linux, Solaris
- Understanding of basic network and storage concepts

Cel szkolenia

- Describe virtualization, virtual machines, and vSphere components
- Describe the concepts of server, network, storage, and desktop virtualization
- Deploy, configure, clone, and manage virtual machines
- Use vCenter Server to monitor virtual machine resource usage
- Use VMware vSphere® vApp(s)™ to bundle and manage multiple interoperating virtual machines and software applications
- Use VMware vSphere® vMotion® and VMware vSphere® Storage vMotion® to migrate virtual machines
- Use VMware vSphere® Distributed Resource Scheduler™, VMware vSphere® High Availability, VMware vSphere® Fault Tolerance, VMware vSphere® Data Protection™, and VMware vSphere® Replication™ to optimize the performance of your vSphere virtual environment

Czas i forma szkolenia

- 14 godzin (2 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

Plan szkolenia

1. Course Introduction
 - a. Introductions and course logistics
 - b. Course goals and objectives
 - c. Online vSphere resources
 - d. Location of online vSphere documentation
2. VMware Virtualization Overview
 - a. Identify the differences between traditional and virtual architecture
 - b. Identify the infrastructure components that can be virtualized
 - c. Describe VMware virtualization concepts
 - d. Describe the components of vSphere
 - e. Describe the inventory objects managed by vSphere

- f. Identify the components of vCenter Server
- 3. vSphere Client and vSphere Web Client
 - a. Identify the differences between the VMware vSphere® Web Client and VMware vSphere® Client™ interfaces
 - b. Access and navigate through the vSphere Web Client interface
 - c. Use vSphere Web Client to monitor and manage vSphere objects
 - d. Perform searches in vSphere Web Client
 - e. Remove stored data from vSphere Web Client
 - f. Apply roles and permissions to users and user groups
- 4. Creating and Managing Virtual Machines
 - a. Create and manage virtual machines
 - b. Install a guest operating system and VMware Tools™
 - c. Explain how to use clones and templates to manage virtual machines
 - d. Explain the importance of content libraries
 - e. Configure virtual machines
 - f. Manage virtual machines using snapshots
 - g. Explain how raw device mapping (RDM) allows a virtual machine to directly access and use a storage device
- 5. Monitor Virtual Machine Resources
 - a. Explain virtual machine resource monitoring concepts
 - b. Monitor virtual machine resource usage using vCenter Server performance graphs and alarms
 - c. Describe and monitor tasks
 - d. Describe, monitor, and manage events
 - e. Describe, monitor, manage, and acknowledge alarms
- 6. Using vSphere vApp(s)
 - a. Describe vApp(s)
 - b. Explain the benefits of vApp(s)
 - c. Create, edit, and manage a vApp
 - d. Clone a vApp
 - e. Manage the power status of a vApp
- 7. Migrating Virtual Machines
 - a. Describe the types of migration
 - b. Explain the importance of vSphere vMotion
 - c. Identify the host and virtual machine requirements for vSphere vMotion
 - d. Explain how to migrate virtual machines using vSphere vMotion
 - e. Explain how to migrate storage with vSphere Storage vMotion
 - f. Explain how to migrate virtual machines across virtual switches, vCenter Server systems, and long distances
- 8. Using vSphere for Scalability and Business Continuity
 - a. Explain how vSphere DRS can be used to optimize the performance of the hosts and virtual machines in a cluster
 - b. Explain how vSphere HA can be used to increase the availability of your virtual machines
 - c. Explain how vSphere FT can be used for continuous availability of a virtual machine
 - d. Explain how vSphere Data Protection and vSphere Replication can be used to replicate backup and restore data in your virtual environment