

Szkolenie: HPE  
VMware vSAN: Deploy and Manage



## Cel szkolenia:

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

- Describe the vSAN architecture
- Identify vSAN features and use cases
- Configure vSAN networking components
- Configure a vSAN cluster
- Deploy virtual machines on a vSAN datastore
- Configure virtual machine storage policies
- Perform ongoing vSAN management tasks
- Configure vSAN encryption
- Control vSAN resynchronization tasks
- Create and manage nested fault domains
- Use the vSAN health service to monitor health and performance
- Configure a stretched cluster and observe failover scenarios
- Describe vSAN interoperability with VMware vSphere® features and other products
- Plan and design a vSAN cluster

## Audience

Storage and virtual infrastructure administrators who want to use software defined storage with vSAN.

## Plan szkolenia:

- Course Introduction
  - Introductions and course logistics
  - Course objective
  - Describe the software-defined data center
- Introduction to vSAN
  - Describe basic vSAN architecture and components
  - Describe the differences between file, block, and object storage

- Explain the advantages of object-based storage
- Detail the configuration of a vSAN cluster
- Install and validate the initial vSAN installation and configuration
- vSAN Configuration
  - Apply vSAN design considerations
  - Detail the expansion of a vSAN cluster
  - Configure vSAN disk groups manually
  - Identify physical network configuration requirements
  - Describe the configuration of vSAN networking
  - Test and validate the vSAN configuration and functionality
  - Describe the vSAN architecture and components
  - Describe the differences between the vSAN hybrid and all-flash architectures
  - Describe the advantages of all-flash architecture
  - Describe the space-efficiency features of vSAN
  - Describe the different vSAN assessment tools
  - Explain vSAN license details
- vSAN Policies and Virtual Machines
  - Explain how storage policies work with vSAN
  - Define and create a virtual machine storage policy
  - Apply and modify virtual machine storage policies
  - Change virtual machine storage policies dynamically
  - Identify virtual machine storage policy compliance status
- Managing and Operating vSAN
  - Explain how to configure encryption in the vSAN cluster
  - Explain the management of hardware storage devices
  - Identify alarms for vSAN events
  - Describe and configure fault domains
  - Describe the configuration of the vSAN iSCSI service, iSCSI targets, and LUNS
- Stretched Clusters and Two-Node Clusters
  - Describe the architecture for stretched clusters and two-node clusters
  - Create a stretched cluster
  - Describe how stretched cluster storage policies affect vSAN objects
  - Create and apply a vSAN stretched cluster policy to meet specific needs
  - Discuss the behavior of a stretched cluster when various types of failures occur
- Monitoring and Troubleshooting vSAN
  - Discuss hardware failure scenarios

- Describe the process of resynchronization
- Explain the possible reasons for resynchronization
- Describe the use of vSphere client to detect issues
- Explain the use of the health service to monitor vSAN health
- Explain the use of the performance service to monitor vSAN performance
- Monitor and test the vSAN environment
- Describe vSAN architecture components and the PNOMA OSI model

## Wymagania:

One of the following prerequisites must be completed prior to this course

- Storage administration experience on block or file storage devices
- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.x] course

Experience working at the command line is helpful

- The course material presumes that a student can perform the following tasks with no assistance or guidance:
- Use VMware vSphere® Client™
- Create and manage VMware vCenter Server® objects, such as data centers, clusters, hosts, and virtual machines
- Create and modify a standard switch
- Create and modify a distributed switch

## Poziom trudności



## Certyfikaty:

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

## Prowadzący:

Authorized VMware Trainer.