

Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Skontaktuj się z nami

Email: szkolenia.ecs.pl@arrow.com

Phone: 12 616 43 00



VMware vSAN: Fast Track [V7]

Kod: Czas trwania: Cena netto:

VMW_VSANFT7 40 Hours (5 days) zł13,900.00

Description

During this five-day, intensive course, you gain the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster. You learn about managing and operating vSAN. This course focuses on building the required skills for common Day-2 vSAN administrator tasks such as vSAN node management, cluster maintenance, security operations, and advanced vSAN cluster operations.

You also focus on learning the tools and skills necessary to troubleshoot vSAN 7 implementations and gain practical experience with vSAN troubleshooting concepts through the completion of instructor-led activities and hands-on lab exercises.

This course is a combination of the following courses: VMware vSAN: Plan and Deploy, VMware vSAN: Management and Operations, and VMware vSAN: Troubleshooting.

Cel szkolenia

By the end of the course, you should be able to meet the following objectives: • Describe vSAN concepts

- Detail the underlying vSAN architecture and components Explain the key features and use cases for vSAN
- · Identify requirements and planning considerations for vSAN clusters · Describe the different vSAN deployment options
- Explain how to configure vSAN fault domains Detail how to define and create a VM Storage policy
- · Discuss the impact of vSAN storage policy changes · Describe vSAN storage space efficiency
- Explain how vSAN encryption works Identify requirements to configure vSAN iSCSI target
- Detail HCI Mesh technology and architecture Detail vSAN file service architecture and configuration
- Explain the use cases of vSAN Direct Describe how to setup stretched and two-node vSAN clusters
- Explain the importance vSAN node hardware compatibility
- Describe the use of VMware vSphere® Lifecycle Manager™ to automate driver and firmware installations
- Detail vSAN resilience and data availability
 Discuss the vSAN cluster backup methodology
- Describe the vSAN maintenance mode and data evacuation options
- Define the steps to shut down a vSAN cluster for maintenance
- Explain how to use proactive tests to check the integrity of a vSAN cluster
- Use VMware Skyline Health™ for monitoring vSAN health
- · Apply a structured approach to troubleshoot vSAN cluster configuration and operational problems

Uczestnicy

Storage and virtual infrastructure consultants, solution architects, and administrators who are responsible for production support and administration of VMware vSAN [v7]

Program szkolenia

- 1 Course Introduction Introductions and course logistics Course objectives 2 Introduction to vSAN Describe vSAN architecture
- Describe the vSAN software components: CLOM, DOM, LSOM, CMMDS, and RDT Identify vSAN objects and components
- Describe the advantages of object-based storage Describe the difference between All-Flash and Hybrid vSAN architecture
- · Explain the key features and use cases for vSAN
- Discuss the vSAN integration and compatibility with other VMware technologies 3 Planning a vSAN Cluster
- Identify requirements and planning considerations for vSAN clusters Apply vSAN cluster planning and deployment best practices
- Determine and plan for storage consumption by data growth and failure tolerance Design vSAN hosts for operational needs
- Identify vSAN networking features and requirements Describe ways of controlling traffic in a vSAN environment
- Recognize best practices for vSAN network configurations 4 Deploying a vSAN Cluster
- Recognize the importance of hardware compatibility Ensure the compatibility of driver and firmware versioning
- Use tools to automate driver validation and installation Apply host hardware settings for optimum performance

- Use vSphere Life Cycle Manager to perform upgrades Deploy and configure a vSAN Cluster using Cluster Quickstart wizard
- Manually configure a vSAN Cluster using vSphere Client
 Explain and configure vSAN fault domains
- Using vSphere HA with vSAN Understand vSAN Cluster maintenance capabilities
- Describe the difference between implicit and explicit fault domains Create explicit fault domains 5 vSAN Storage Policies
- Describe a vSAN Object Describe how objects are split into components Explain the purpose of witness components
- Explain how vSAN stores large objects View object and component placement on the vSAN Datastore
- 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 6 vSAN Resilience and Data Availability
- Describe and configure the Object Repair Timer advanced option Plan disk replacement in a vSAN cluster
- Plan maintenance tasks to avoid vSAN object failures
- Recognize the importance of managing snapshot utilization in a vSAN cluster 7 Configuring vSAN Storage Space Efficiency
- Discuss Deduplication and Compression techniques Understand Deduplication and Compression overhead
- Discuss Compression only mode Configure Erasure Coding Configure swap object Thin Provisioning
- Discuss Reclaiming Storage Space with SCSI UNMAP Configure TRIM/UNMAP 8 vSAN Security Operations
- · Identify differences between VM encryption and vSAN encryption · Perform ongoing operations to maintain data security
- Describe the workflow of Data-in Transit encryption Identify the steps involved in replacing Key Management Server
- 9 Introduction to Advanced vSAN Configurations Identify requirements to configure vSAN iSCSI target
- Detail HCI Mesh technology and architecture Detail vSAN File Service architecture and configuration
- Explain the use cases of vSAN Direct 10 vSAN Cluster Maintenance Perform typical vSAN maintenance operations
- Describe vSAN maintenance modes and data evacuation options
- · Assess the impact on cluster objects of entering maintenance mode
- Determine the specific data actions required after exiting maintenance mode
- Define the steps to shut down and reboot hosts and vSAN clusters Use best practices for boot devices Replace vSAN Nodes 11 vSAN Stretched and Two Node Clusters Describe the architecture and uses case for stretched clusters
- Detail the deployment and replacement of a vSAN Witness node Describe the architecture and uses case for two-node clusters
- Explain the benefits of vSphere HA and vSphere Site Recovery Manager in a vSAN stretched cluster
- Explain storage policies for vSAN stretched cluster 12 vSAN Cluster Monitoring
- Describe how the Customer Experience Improvement Program (CEIP) enables VMware to improve products and services
- Use vSphere Skyline Health for monitoring vSAN Cluster Health
- Manage alerts, alarms, and notifications related to vSAN in vSphere Client
- Create and configure custom alarms to trigger vSAN health issues Use IO Insight metrics for monitoring vSAN performance
- Analyse vsantop performance metrics Use vSAN Proactive Test to detect and diagnose cluster issues
- 13 vSAN Troubleshooting Methodology Use a structured approach to solve configuration and operational problems
- · Apply troubleshooting methodology to logically diagnose faults and optimize troubleshooting efficiency
- 14 vSAN Troubleshooting Tools Use Skyline Health for vSAN to identify and correct issues in VMware vSAN
- Discuss the ways to run various command-line tools Discuss the ways to access VMware vSphere ESXi Shell
- Use commands to view, configure, and manage your VMware vSphere environment
- Discuss the exxcli vsan namespace commands Use log files to help vSAN troubleshooting

Terminy

Na żądanie. Prosimy o kontakt

Dodatkowe informacje

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