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VMware vSAN: Deploy and Manage [V6.7]

CODE:

VMW_VSANDM67

DURÉE:

24 Hours (3 Jours)

PRIX H.T.:

€2,070.00

Description

In this three-day course, you focus on deploying and managing a software-defined storage solution with VMware vSAN™ 6.7. You learn how vSAN functions as an important component in the VMware software-defined data center. You gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Objectifs

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

Prérequis

This course requires meeting one of the following prerequisites:

- 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.

Programme

- 1 Course Introduction • Introductions and course logistics • Course objectives • Describe the software-defined data center
- 2 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
- 3 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
- 4 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
- 5 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
- 6 Stretched Clusters and Two-Node Clusters
 - Describe the configuration of the vSAN iSCSI service, iSCSI targets, and LUNS
 - 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
- 7 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.

Dates de session

Sur demande. [Merci de nous contacter](#)

Informations Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)