VMware vSAN: Production Operations V6.7

Varighed: 2 Days   Kursus Kode: VMVSANPO   Version: 6.7

Beskrivelse:

In this two-day course, you focus on building skills in configuring and performing common administrator and end-user tasks with VMware vSAN™ 6.7. You gain practical experience with vSAN production operations through the completion of instructor-led activities and hands-on lab exercises.
Product Alignment
• ESXi 6.7
• vCenter Server 6.7
• vSAN 6.7

Målgruppe:

Main target audience for this training are: Storage and virtual infrastructure administrators who are responsible for production support and administration of vSAN v6.x

Agenda:

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

- • Describe vSAN host operations

- • Discuss vSAN networking requirements

- • Define the tasks involved in hardware replacement in a vSAN cluster

- • Perform vSAN cluster scale-out and scale-up operations

- • Describe common vSAN maintenance operations

- • Define the tasks required for updating and upgrading vSAN

- • Describe vSAN security operations

- • Configure a key management server (KMS) cluster

- • Configure vSAN storage policies and observe the effects of a cluster-wide change

- • Explain vSAN resilience and availability features

- • Perform ongoing vSAN management tasks

- • Use the vSAN health service to monitor health and performance

Forudsætninger:

This course has the following prerequisites:

• Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.x] course

• Storage administration experience with block or file storage devices

Completion of the VMware vSAN: Deploy and Manage [v6.x] course (VMVSAN) or equivalent experience with vSAN is desirable.

The course presumes that a student can perform the following tasks with no assistance or guidance before enrolling:

• Use VMware vSphere® Web Client

• Create and manage VMware vCenter Server® objects, such as data centers, clusters, hosts, and virtual machines

- Create and modify a standard switch

- Connect a VMware ESXi™ host to NAS, iSCSI, or Fibre Channel storage

- Create a VMware vSphere® VMFS datastore

- Use a wizard or a template to create a virtual machine

- Migrate a virtual machine with VMware vSphere® vMotion®

- Migrate a virtual machine with VMware vSphere® Storage vMotion®

If you cannot complete all of these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage [V6.x] (VSICM) and VMware vSAN: Deploy and Manage [V6.x] (VMVSAN) courses before enrolling in VMware vSAN: Production Operations (VMVSANPO).

Indhold:

1. Course Introduction

• Introductions and course logistics

• Course objectives

2. Introduction to vSAN

• Describe the vSAN architecture and components

• Describe the differences between the vSAN hybrid and all-flash architectures

• Describe the space-efficiency features of vSAN

• Describe how vsanSparse snapshots work

3. vSAN Host Management

• Recognize the importance of hardware compatibility

• Use tools to automate driver validation and installation

• Apply host hardware settings for optimum performance

• Describe NIC teaming, Link Aggregation Control Protocol, and the benefits of using VMware vSphere® Distributed

Switch™ in vSAN

• Plan for networking configuration changes

• Troubleshoot with ESXCLI commands

4. vSAN Policies and Resiliency

• Explain how storage policies work with vSAN

• Create and modify virtual machine storage policies

• Identify the effects of vSAN storage policy changes

• Monitor using the Ruby vSphere Console

• Describe vSAN resiliency, availability, and backup features and operations

• Manage hardware device failures

5. Cluster Maintenance

• Perform typical vSAN maintenance operations

• Upgrade and update vSAN

• Replace vSAN hardware by using scale-in and scale-out strategies

6. vSAN Security Operations

• Describe vSAN datastore encryption and Key Management Server (KMS) architecture

• Integrate a KMS

• Configure encryption in the vSAN cluster

• Compare virtual machine and vSAN encryption

• Perform ongoing operations to maintain data security

• Add an encrypted cluster to vCenter Server

7. vSAN Monitoring and Performance

• Identify common alerts, alarms, and notifications related to vSAN in vSphere Web Client

• Use the health service to monitor vSAN health

• Use the performance service to monitor vSAN performance

• Proactively monitor and test the vSAN environment

• Use the vSAN health CLI and Ruby vSphere Console (RVC) when vSphere Web Client is unavailable

• Use ESXCLI commands to monitor the vSAN environment

■ • Verify that the vSAN environment is functioning properly and performing as expected

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Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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