

VMWA-30 - VMWARE VSAN MANAGEMENT AND OPERATIONS [V7]

Categoria: VMware

INFORMAZIONI SUL CORSO

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£55

Durata: 3 Giorni

Categoria: VMware

Qualifica Istruttore: VMware Certified Instructor Dedicato a: Professionista IT Produttore: VMware

OBIETTIVI

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

- -Define the tasks involved in vSAN node management
- -Updating and upgrading vSAN using VMware vSphere Lifecycle Manager™
- -Explain vSAN resilience and data availability features
- -Reconfigure vSAN storage policies and observe the cluster-wide impact
- -Perform vSAN cluster scale-out and scale-up operations
- -Describe common vSAN cluster maintenance operations
- -Control vSAN resync operations
- -Manage two-node cluster and stretched cluster advance operations
- -Configure vSAN storage efficiency and reclamation features
- -Use VMware Skyline™ Health to monitor cluster health, performance, and storage capacity
- -Describe vSAN security operations
- -Configure vSAN Direct for cloud native applications
- -Configure remote vSAN datastore and vSAN native file services

PREREQUISITI

Completion of the following courses is required:

- -VMware vSphere: Install, Configure, Manage [v7] or equivalent knowledge
- -VMware vSAN: Plan and Deploy [v7]

CONTENUTI

1 Course Introduction

- -Introductions and course logistics
- -Course objectives

2 vSAN Node Management

- -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 Lifecycle Manager to perform upgrades

3 vSAN Resilience and Data Availability Operations

- -Describe vSAN storage policies
- -Recognize the impact of a vSAN storage policy change
- -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
- -Configure the vSAN fault domains

4 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

5 HCI Mesh Using Remote vSAN

- -Discuss the use cases for Remote vSAN
- -Understand the high-level architecture
- -Describe remote datastore operations
- -Discuss the network requirement
- -Interoperability between Remote vSAN and VMware vSphere-High Availability

6 Managing Advanced vSAN Cluster Operations

- -Describe the architecture for stretched clusters and two-node clusters
- -Understand the importance of Witness Node
- -Describe how stretched cluster storage policies affect vSAN objects
- -Create and apply a vSAN stretched cluster policy to meet specific needs
- -Discuss stretched cluster failure scenarios and responses

7 Managing vSAN Storage Space Efficiency Operations

- -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 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

10 vSAN Direct

- -Discuss the use cases for vSAN Direct
- -Understand the overall architecture of vSAN Direct
- -Describe the workflow of vSAN Direct datastore creation
- -Explore how vSAN Direct works with storage policy tagging

11 Native vSAN File Service

- -Discuss the use cases for vSAN file service
- -Understand the high-level architecture of vSAN file service
- -Discuss the authentication model
- -Configure file shares
- -Monitor file share health and capacity utilization

INFO

Materiale didattico: Materiale didattico ufficiale VMware in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)