



**Enterprise Computing Solutions - Education Services**

## **OFERTA FORMATIVA**

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### **Detalles de contacto**

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CÓDIGO:	DURACIÓN:	Precio:
VMW_VSANMO7	24 Hours (3 días)	€1,130.00

## Description

In this three-day course, you learn about managing and operating VMware vSAN™ 7. 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 gain practical experience through the completion of instructor-led activities and hands-on lab exercises.

### Product Alignment

- VMware ESXi™ 7.0 U1
- VMware vCenter Server® 7.0 U1
- VMware vSAN 7.0 U1

## Objetivos

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

## Público

Storage and virtual infrastructure administrators who are responsible for production support and administration of VMware vSAN 7.

## Requisitos Previos

Completion of the following courses is required:

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

## Programa

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| <b>1 Course Introduction</b> <ul style="list-style-type: none"><li>• Introductions and course logistics</li><li>• Course objectives</li></ul> | <b>2 vSAN Node Management</b> <ul style="list-style-type: none"><li>• Recognize the importance of hardware compatibility</li><li>• Ensure the compatibility of driver and firmware versioning</li><li>• Use tools to automate driver validation and installation</li><li>• Apply host hardware settings for optimum performance</li><li>• Use vSphere Lifecycle Manager to perform upgrades</li></ul> |
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### 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

## Fechas Programadas

Fecha	Localización	Zona horaria	Idioma	Modalidad de impartición	Impartición garantizada	Precio
26 Jun 2024	Virtual Classroom		Spanish	Instructor Led Online		€1,130.00

## Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.