



## TRAINING OFFERING

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CODE:	LENGTH:	PRICE:
VMW_VSANPD7	16 Hours (2 days)	£1,290.00

## Description

This two-day, hands-on training course provides you with the knowledge, skills, and tools to plan and deploy a VMware vSAN™ cluster.

In this course, you are taught the many considerations that the vSAN configuration has on the initial planning of the vSAN datastore. You also manually configure a vSAN cluster.

## Objectives

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

- Explain the key features and use cases for vSAN • Detail the underlying vSAN architecture and components
- Describe the different vSAN deployment options • Detail vSAN cluster requirements and considerations
- Apply recommended vSAN design considerations and capacity sizing practices
- Explain the influence of vSAN objects and components on the initial cluster plan
- Determine and plan for storage consumption by data growth and failure tolerance • Design vSAN hosts for operational needs
- Explain Maintenance Mode use and its impacts on vSAN • Apply best practices for vSAN network configurations
- Manually configure a vSAN cluster using VMware vSphere® Client™ • Explain and configure vSAN fault domains
- Understand and apply vSAN storage policies • Define encryption in the vSAN cluster
- Describe the architecture and use cases for stretched clusters • Configure a stretched cluster
- Understand the steps involved in creating the vSAN iSCSI target services

## Audience

Experienced VMware vSphere® administrators

## Prerequisites

**You should have the following understanding or knowledge:**

- Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage course
- Knowledge of basic storage concepts
- Experience using vSphere Client to perform administrative tasks on vSphere clusters

## Programme

### 2 Introduction to vSAN

- Describe vSAN architecture
- 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
- Identify vSAN objects and components
- 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

### 1 Course Introduction

- Introductions and course logistics
- Course objectives

### 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

- Deploy and configure a vSAN cluster using the Cluster QuickStart wizard
- Manually configure a vSAN cluster using vSphere Client
- Explain and configure vSAN fault domains
- Using VMware vSphere® High Availability with vSAN
- Understand vSAN cluster maintenance capabilities
- Describe the difference between implicit and explicit fault domains
- Create explicit fault domains

### 5 vSAN Storage Policies

- Explain how storage policies work with vSAN
- Explain the role of storage policies in planning a vSAN cluster
- Define and create virtual machine storage policies
- Apply and modify virtual machine storage policies
- Change virtual machine storage policies dynamically
- Identify virtual machine storage policy compliance status

### 6 Introduction to Advanced vSAN Configurations

- Define and configure compression and deduplication in the vSAN cluster
- Define and configure encryption in the vSAN cluster
- Understand the remote vSAN datastore topology
- Identify the operations involved in managing the remote vSAN datastore
- Configure the vSAN iSCSI target service

### 7 vSAN Stretched and Two-Node Clusters

- Describe the architecture and use cases for stretched clusters
- Detail the deployment and replacement of a vSAN witness node
- Describe the architecture and use cases for twonode clusters
- Explain the benefits of vSphere HA and VMware Site Recovery Manager™ in a vSAN stretched cluster
- Explain storage policies for vSAN stretched cluster

## Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
08 Jul 2024	Virtual Classroom	BST	English	Instructor Led Online		£1,290.00
25 Nov 2024	Virtual Classroom	GMT	English	Instructor Led Online		£1,290.00

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)