LUMIFY WORK vSAN Plan and Deploy Configure Manage User Guide
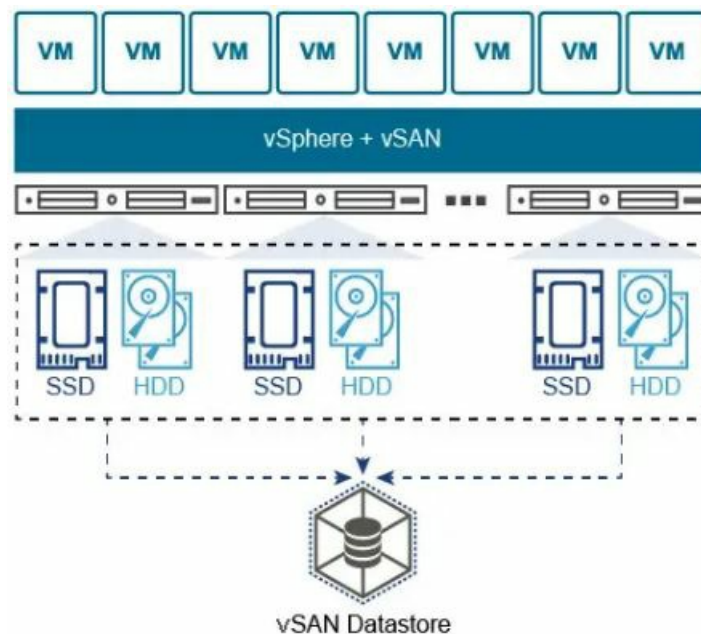
Contents

LUMIFY WORK vSAN Plan and Deploy Configure Manage

Product Information

Specifications

- Product: VMware vSAN: Plan and Deploy
- Length: 2 days
- Version: 7
- Product Alignment: VMware vSAN 7.0 U1

Product Usage Instructions

Course Introduction
This section provides an introduction to the course and covers the following topics:

- Introductions and course logistics
- Course objectives
- Lumify Work Customised Training

Planning a vSAN Cluster
In this section, you will learn how to plan and deploy a vSAN cluster. It covers the following topics:

- 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

vSAN Storage Policies
This section focuses on storage policies in a vSAN cluster. It includes the following topics:

- 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

FAQ

Q: Can this training course be customized for larger groups?
A: Yes, Lumify Work can deliver and customize this training course for larger groups, saving your organization time, money, and resources. For more information, please contact Lumify Work at 02 8286 9429.

Q: What is the product alignment for VMware vSAN: Plan and Deploy?
A: The product alignment for this course is VMware vSAN 7.0 U1.

CLOUD COMPUTING AND VIRTUALISATION
VMware vSAN: Plan and
Deploy

VMWARE AT LUMIFY WORK

VMware is the world leader in server virtualisation technologies. Lumify Work is a VMware Education Reseller Partner (VERP), offering training in vSphere, vRealiz e, vSAN,Horizon, NSX-T, Workspace ONE,Carbon Black, and other VMware technologies and platforms.

WHY STUDY THIS COURSE
This 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.

Product Alignment:

- VMware vSAN 7.0 U1

WHAT YOU'LL LEARN

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

My instructor was great being able to put scenarios into real world instances that related to my specific situation. I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.
I learnt a lot and felt it was important that my goals by attending this course were met.
Great job Lumify Work team.

AMANDA NICOL
IT SUPPORT SERVICES MANAGER – HEALT H WORLD LIMITED

COURSE SUBJECTS

Course Introduction

- Introductions and course logistics
- Course objectives

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

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

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

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

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

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 two-node clusters
- Explain the benefits of vSphere HA and VMware Site Recovery Manager™ in a vSAN stretched cluster
- Explain storage policies for vSAN stretched cluster

WHO IS THE COURSE FOR?
Experienced VMware vSphere administrators

PREREQUISITES

Students 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

Lumify Work
Customised Training
We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.
For more information, please contact us on 02 8286 9429.

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

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Documents / Resources

LUMIFY WORK vSAN Plan and Deploy Configure Manage [pdf] User Guide
vSAN Plan and Deploy Configure Manage, Plan and Deploy Configure Manage, Deploy Configure Manage, Configure Manage, Manage

References

- **Lumify Work | Lumify Work AU**
- **Lumify Work | Lumify Work AU**
- **VMware vSAN: Plan and Deploy | Lumify Work PH**
- **VMware vSphere: Install, Configure, Manage | Lumify Work PH**
- **User Manual**