∧∧∪∪∨ | Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

9201 Dry Creek Rd. Centennial, CO 80112, United States

Email: arrow_learning@arrow.com
Phone: 303 790 2330

VMware vSAN: Deploy and Manage [V6.6]

CODE:	LENGTH:	PRICE:
VM-VSAN-DM-V6.6	24 Hours (3 days)	$2,550.00

Description

In this three-day course, you will focus on deploying and managing a software-defined storage solution with VMware vSAN™ 6.6.
You will learn how vSAN functions as an important component in the VMware software-defined data center.
You will gain practical experience with vSAN concepts through the completion of hands-on lab exercises.

Objectives

By the end of the course, you should be able to meet the following objectives:
• Describe the vSAN architecture
• Identify vSAN features and use cases
• Configure vSAN networking components
• Configure a vSAN cluster
• Deploy virtual machines on a vSAN datastore
• Configure virtual machine storage policies
• Perform ongoing vSAN management tasks
• Outline the tasks for upgrading to vSAN 6.6
• Configure vSAN encryption
• Control vSAN resynchronization tasks
• Create and manage nested fault domains
• Use the vSAN health service to monitor health and performance
• Configure a stretched cluster and observe failover scenarios
• Describe vSAN interoperability with VMware vSphere® features and other products
• Plan and design a vSAN cluster

Audience

Storage and virtual infrastructure administrators who want to use software-defined storage with vSAN

Prerequisites

This course requires completion of one of the following prerequisites:
• Storage administration experience on block or file storage devices
• Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6.5] course
Experience working at the command line is helpful.

The course material presumes that a student can perform the following tasks with no assistance or guidance before enrolling in this course:
• 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 [V6.5] course before enrolling in VMware vSAN: Deploy and Manage.

Programme

Course Introduction
• Introductions and course logistics
• Course objectives
• Describe the software-defined data center

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

vSAN Configuration
• Identify physical network configuration requirements
• Configure vSAN networking
• Configure a vSAN cluster
• Test and validate the vSAN configuration and functionality

Managing and Operating vSAN
• Manage hardware storage devices
• Manage hardware device failures
• Identify vCenter Server alarms for vSAN events
• Configure fault domains
• Upgrade to vSAN 6.6

Stretched Clusters and Two-Node Clusters
• Describe the architecture for stretched clusters and two-node clusters
• Create a stretched cluster using a two-node configuration
• Configure VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™ for a stretched cluster
• Demonstrate stretched cluster failover scenarios

Monitoring and Troubleshooting vSAN
• Use vSphere Web Client to detect issues
• Use the vSAN health service to monitor health and performance
• Monitor vSAN with VMware vRealize® Operations Manager™
• Use ESXi commands to monitor the vSAN environment
• Monitor vSAN with Ruby vSphere Console

Storage Fundamentals
• Define common storage technologies
• Identify characteristics of storage devices: magnetic and flash-based devices
• Identify and explain various types of storage architectures
• Identify SAN performance factors

vSAN Policies and Virtual Machines
• Explain how storage policies work with vSAN
• Define and create a virtual machine storage policy
• Apply and modify virtual machine storage policies
• Discuss the vsanSparse snapshot format
• Explain the considerations for vsanSparse snapshots

Designing a vSAN Deployment
• Understand vSAN design considerations
• Plan and design vSAN clusters
• Identify the design and sizing tools for vSAN
• Describe vSAN use cases

Interoperability with vSphere Features
• Identify vSphere features and VMware products that interoperate with vSAN
• Describe how vSAN interoperates with third-party products and solutions

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.