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 Virtual SAN: Deploy and Manage [V6.2]

CODE:	LENGTH:	PRICE:
VM-VS-DM-62	24 Hours (3 days)	$2,550.00

Description

During this three-day course, you will focus on deploying and managing a software-defined storage solution with VMware Virtual SAN™ 6.2. You will learn how Virtual SAN functions as an important component in the VMware software-defined data center (SDDC). You will gain practical experience with Virtual SAN concepts through the completion of hands-on lab exercises.

Objectives

-Describe the Virtual SAN architecture and use cases
-Configure Virtual SAN networking components
-Configure a Virtual SAN cluster
-Deploy virtual machines on a Virtual SAN datastore
-Configure virtual machine storage policies
-Perform ongoing Virtual SAN management tasks
-Outline the tasks for upgrading from Virtual SAN 5 to Virtual SAN 6.2
-Describe Virtual SAN interoperability with VMware vSphere® features and other products
-Use the Virtual SAN health service to monitor Virtual SAN health and performance
-Use the command line to monitor Virtual SAN
-Configure a stretched cluster and observe failover scenarios
-Plan and design a Virtual SAN cluster

Audience

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

Prerequisites

Storage administration experience on block or file storage devices
Understanding of concepts presented in the VMware vSphere: Install, Configure, Manage [V6] course
Experience with 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 and clusters
Create and modify a standard switch
Connect an 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 are unable to complete all of these tasks, VMware recommends that you complete the VMware vSphere: Install, Configure, Manage [V6] course before enrolling in VMware Virtual SAN: Deploy and Manage.

Programme

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

2 Storage Fundamentals
-Define common storage technologies
-Identify common SAN architectures
-Identify characteristics of storage devices: magnetic and flash-based devices
-Identify and explain the differences between file, block, and object-oriented storage architectures
-Identify SAN performance factors
-Compare and contrast local, centralized, and distributed storage architectures
3 Introduction to Virtual SAN
-Describe the Virtual SAN architecture and components
-Describe the differences between the Virtual SAN hybrid and all-flash architectures
-Describe the space efficiency features of Virtual SAN
4 Virtual SAN Configuration
-Identify physical network configuration requirements
-Configure Virtual SAN networking
-Configure a Virtual SAN cluster
-Test and validate the Virtual SAN configuration and functionality
5 Virtual SAN Policies and Virtual Machines
-Explain how storage policies work with Virtual SAN
-Define and create a virtual machine storage policy
-Apply and modify virtual machine storage policies
-Explain the considerations for vsanSparse snapshots
-Discuss the vsanSparse snapshot format
6 Managing and Operating Virtual SAN
-Manage hardware storage devices
-Manage hardware device failures
-Identify vCenter Server alarms for Virtual SAN events
-Configure fault domains
-Upgrade from Virtual SAN 5.5 to Virtual SAN 6.2
7 Interoperability with vSphere Features
-Identify vSphere features and VMware products that interoperate with Virtual SAN
-Describe how Virtual SAN interoperates with VMware vSphere® Enterprise Edition™ features
-Describe how Virtual SAN interoperates with third-party products and solutions
8 Monitoring and Troubleshooting Virtual SAN
-Identify tools to troubleshoot Virtual SAN
-Use the Virtual SAN health service to monitor health and performance
-Monitor Virtual SAN with VMware vRealize® Operations Manager™
-Monitor Virtual SAN with Ruby vSphere Console and Virtual SAN Observer
9 Stretched Clustering and Two-Node Models
-Compare a stretched cluster and a two-node cluster configuration
-Configure a stretched cluster using a two-node configuration
-Demonstrate stretched cluster failover scenarios
10 Designing a Virtual SAN Deployment
-Understand the Virtual SAN design basics
-Plan and design Virtual SAN clusters
-Consider the Virtual SAN hybrid and all-flash designs
-Describe the Virtual SAN use case design considerations
-Identify the design and sizing tools for Virtual SAN

Session Dates

On request. Please Contact Us

Additional Information

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