

# VM-VS-DM (VMWARE VIRTUAL SAN: DEPLOY AND MANAGE) 5.5

## Objetivo

This training course focuses on deploying and managing a software-defined storage solution with VMware® Virtual SAN™ 5.5. This course looks at how Virtual SAN is used as an important component in the VMware® software-defined data center (SDDC). Students gain practical experience with these concepts through the completion of hands-on labs. The course is based on the VMware® ESXi™ 5.5 Update 1 and the VMware® vCenter Server™ 5.5 Update 1. By the end of the course, you should be able to meet the following objectives:

- Define the key components of a software-defined data center
- Identify benefits of software-defined storage solutions
- Compare and contrast disk types and storage Technologies
- Explain file, block, and object-oriented storage
- Identify Virtual SAN requirements, use cases, and architecture components
- Plan and design a Virtual SAN deployment
- Configure Virtual SAN clusters
- Identify benefits of storage policy-based management
- Scale a Virtual SAN deployment based on storage needs
- Monitor Virtual SAN
- Troubleshoot Virtual SAN
- Identify the integration of Virtual SAN with the VMware product portfolio

## Público Alvo

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

## Pré-Requisitos

- Storage administration experience on block or file storage devices
- Understanding of concepts presented in the VMware vSphere®: Install, Configure, Manage course

## Carga Horária

16 horas (2 dias).

## Conteúdo Programático

### 1 Course Introduction

- Introductions and course logistics
- Course objectives
- Course outline
- Identify benefits of the software-defined data center

### 2 Storage Fundamentals Overview

- Define common storage terminology
- Identify common SAN architectures
- Identify characteristics of hard-disk drives and solid-state disk drives

- Explain file, block, and object-oriented storage architectures
- Contrast local, centralized, and distributed storage architectures

### 3 Architecture

- Describe the Virtual SAN architecture
- Describe Virtual SAN objects and components
- Identify Virtual SAN capabilities
- Identify Virtual SAN use cases
- Identify the Virtual SAN network interconnect

### 4 Configuring Networks and Clusters

- Configure a Virtual SAN network
- Configure a Virtual SAN cluster

### 5 Storage Policy-Based Management

- Define the purpose of virtual machine storage policies
- Apply virtual machine storage policies
- Deploy virtual machines to Virtual SAN
- Modify virtual machine storage policies

### 6 Managing and Monitoring

- Scale a Virtual SAN cluster
- Identify failure scenarios and responses
- Manage Virtual SAN with the VMware vSphere® Web Client
- Monitor Virtual SAN with Ruby vSphere Console (RVC)
- Manage Virtual SAN with RVC
- Monitor Virtual SAN with Virtual SAN Observer

### 7 Designing and Planning

- Plan Virtual SAN cluster sizing
- Design a Virtual SAN cluster
- Identify Virtual SAN interoperability options