

VMWARE VSAN: MANAGEMENT AND OPERATIONS [V7]



Course Level:

Advanced

Course Duration:

3 Days

Course Overview:

This three-day VMware vSAN: Management and Operations [V7] training course from CloudThat teaches candidates how to manage and operate VMware vSAN 7. Through instructor-led sessions and hands-on labs, candidates attending this course learn the skills to perform tasks such as cluster maintenance, vSAN node management, cluster maintenance, advanced vSAN cluster operations, and security operations.

By enrolling in our VMware vSAN: Management and Operations [V7] training program, learners will acquire the necessary skills and knowledge to pass the final exam successfully. Candidates attending our training get access to the authored curriculum and can learn through engaging and interactive sessions delivered by VMware certified in-house trainers.



Product Alignment

- VMware ESXi 7.0 U1
- VMware vCenter Server 7.0 U1
- VMware vSAN 7.0 U1

Prerequisites

Completion of the following courses is required:

VMware vSphere: Install, Configure, Manage [v7] or equivalent knowledge

VMware vSAN: Plan and Deploy [v7]

Objectives



Define the tasks involved in vSAN node management



Updating and upgrading vSAN using VMware vSphere Lifecycle Manager™



Explain vSAN resilience and data availability features



Reconfigure vSAN storage policies and observe the cluster-wide impact



Perform vSAN cluster scale-out and scale-up operations



Describe common vSAN cluster maintenance operations



Control vSAN resync operations



Manage two-node cluster and stretched cluster advance operations



Configure vSAN storage efficiency and reclamation features



Use VMware Skyline Health to monitor cluster health, performance, and storage capacity



Describe vSAN security operations



Configure vSAN Direct for cloud native applications



Configure remote vSAN datastore and vSAN native file services



Want to make a career in virtualization? Move up the corporate ladder with a list of VMware cloud certifications from CloudThat. Grab up to **30% discount** on any of our 45+ VMware certification courses.

[Enroll Today!](#)

Course Outline

Module 1: Course Introduction

Topics ... Introductions and course logistics
Course objectives

Module 2: vSAN Node Management

Topics ...

- Recognize the importance of hardware compatibility
- Ensure the compatibility of driver and firmware versioning
- Use tools to automate driver validation and installation
- Apply host hardware settings for optimum performance
- Use vSphere Lifecycle Manager to perform upgrades

Course Outline

Module 3: vSAN Resilience and Data Availability Operations

Topics

- Describe vSAN storage policies
- Recognize the impact of a vSAN storage policy change
- Describe and configure the Object Repair Timer advanced option
- Plan disk replacement in a vSAN cluster
- Plan maintenance tasks to avoid vSAN object failures
- Recognize the importance of managing snapshot utilization in a vSAN cluster
- Configure the vSAN fault domains

Module 4: vSAN Cluster Maintenance

Topics

- Perform typical vSAN maintenance operations
- Describe vSAN maintenance modes and data evacuation options
- Assess the impact on cluster objects of entering maintenance mode
- Determine the specific data actions required after exiting maintenance mode
- Define the steps to shut down and reboot hosts and vSAN clusters
- Use best practices for boot devices
- Replace vSAN nodes

Module 5: vSAN Cluster Maintenance

Topics

- Perform typical vSAN maintenance operations
- Describe vSAN maintenance modes and data evacuation options
- Assess the impact on cluster objects of entering maintenance mode
- Determine the specific data actions required after exiting maintenance mode
- Define the steps to shut down and reboot hosts and vSAN clusters
- Use best practices for boot devices
- Replace vSAN nodes

Module 6: HCI Mesh Using Remote vSAN

Topics

- Discuss the use cases for Remote vSAN
- Understand the high-level architecture
- Describe remote datastore operations
- Discuss the network requirement
- Interoperability between Remote vSAN and VMware vSphere-High Availability

Course Outline

Module 7 : vSAN Security Operations

Topics

- Identify differences between VM encryption and vSAN encryption
- Perform ongoing operations to maintain data security
- Describe the workflow of Data-in Transit encryption
- Identify the steps involved in replacing Key Management Server

Module 8: vSAN Cluster Monitoring

Topics

- Describe how the Customer Experience Improvement Program (CEIP) enables VMware to improve products and services
- Use vSphere Skyline Health for monitoring vSAN Cluster Health
- Manage alerts, alarms, and notifications related to vSAN in vSphere Client
- Create and configure custom alarms to trigger vSAN health issues
- Use IO Insight metrics for monitoring vSAN performance
- Analyse vsantop performance metrics
- Use vSAN Proactive Test to detect and diagnose cluster issues

Module 9 : vSAN Direct

Topics

- Discuss the use cases for vSAN Direct
 - Understand the overall architecture of vSAN Direct
 - Describe the workflow of vSAN Direct datastore creation
 - Explore how vSAN Direct works with storage policy tagging

Module 10 : vSAN Direct

Topics

- Discuss the use cases for vSAN file service
 - Understand the high-level architecture of vSAN file service
 - Discuss the authentication model
 - Configure file shares
 - Monitor file share health and capacity utilization

Who Should Enroll for this Course?

Storage and virtual infrastructure administrators who are responsible for production support and administration of VMware vSAN 7.

About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K+ IT professionals from fortune 500 companies on technologies such cloud, Artificial Intelligence, Machine Learning, IoT, OpenStack, OpenShift, DevOps, MongoDB, Big Data and more.

Through sheer dedication and excellence in the field of cloud training, CloudThat has recently being recognized as **VMware Authorized Training Reseller**. In addition, CloudThat is a proud Microsoft Gold Partner, AWS Advanced Consulting Partner, Google Cloud Platform Partner, and Databricks Partner. Recently, we have won the Microsoft Asia Superstar Campaign for India-2021 for being a global leader in providing cloud training and consultancy services with exemplary track record.

Our Success Track

10+ Years
of Experience

100+
Corporates served

28+
countries catered

500K+
Professionals trained

200+
Projects delivered

350+
Cloud certifications

To know more about our VMware certification training, email at sales@cloudthat.com or call us at **+918880002200**.