VMware vSAN Specialist v2

Exam Details (Last Updated: 02/01/2022)

The VMware vSAN Specialist v2 Exam (5V0-22.23), which leads to the VMware Certified Specialist – vSAN badge, is a 76-item exam with a passing score of 300 using a scaled method. Exam time is 125 minutes.

Exam Delivery

This is a proctored exam delivered through Pearson VUE. For more information, visit the Pearson VUE website.

Certification Information

For details and a complete list of requirements and recommendations for attainment, please reference the VMware Education Services – Certification website.

Minimally Qualified Candidate

The minimally qualified candidate (MQC) must have earned a VCP/ VCAP/ VCIX / VCDX 2021 or newer. It is recommended the MQC have 6-12 months hands-on experience configuring, managing and designing vSphere and vSAN. The MQC is also experienced in deployment and administration of VMs using Storage Policy-Based Management and has basic knowledge of: storage, networking, hardware, security, and monitoring and troubleshooting. The MQC should possess the majority of the knowledge of the objectives shown in the exam sections in this guide.

Exam Sections

VMware exam blueprint sections are now standardized to the seven sections below, some of which may NOT be included in the final exam blueprint depending on the exam objectives.

Section 1 – Architecture and Technologies

Section 2 – Products and Solutions

Section 3 – Planning and Designing

Section 4 – Installing, Configuring, and Setup

Section 5 – Performance-tuning, Optimization, and Upgrades

Section 6 – Troubleshooting and Repairing

Section 7 – Administrative and Operational Tasks

If a section does not have testable objectives in this version of the exam, it will be noted below, accordingly. The objective numbering may be referenced in your score report at the end of your testing event for further preparation should a retake of the exam be necessary.

Sections Included in this Exam

Section 1- Architecture and Technologies

- Objective 1.1: Identify vSAN requirements
- bjective 1.2: Identify how vSAN stores and protects data
- Objective 1.3: Identify vSAN space efficiency features
- Objective 1.4: Given a scenario, identify the architectural requirements of a standard vSAN cluster, vSAN 2-node cluster, and a vSAN stretched cluster
- Objective 1.5: Identify vSAN data services requirements
- Objective 1.6: Identify requirements for vSAN ESA

Section 2 - Products and Solutions

- Objective 2.1: Removed - Given a scenario, identify when and how to use vSphere Replication in combination with vSAN
- Objective 2.2: Removed - Identify how to monitor vSAN with vRealize Operations
- Objective 2.3: Identify which VMware solutions integrate with vSAN
- Objective 2.4: Removed - Identify Data Persistence platform (DPp) deployment options

Section 3- Planning and Designing

- Objective 3.1: Given a scenario, identify vSAN design considerations
- Objective 3.2: Given a scenario, identify how to design a vSAN cluster
- Objective 3.3: Given a scenario, identify how to use vSAN design and sizing tools
- Objective 3.4: Given a scenario, identify interoperability with other vSphere features
- Objective 3.5: Given a scenario, identify how VMware solutions integrate with vSAN
- Objective 3.6: Given a scenario, identify when to use HCI Mesh

Section 4- Installing, Configuring, and Setup

- Objective 4.1: Identify how to create and manage vSAN cluster configurations
- Objective 4.2: Identify how to configure a vSAN cluster
- Objective 4.3: Given a scenario, identify how to configure vSAN storage policies
- Objective 4.4: Given a scenario, identify how to configure vSAN cluster services
- Objective 4.5: Identify how to configure vSAN stretched cluster and 2-node configurations
- Objective 4.6: Removed - Identify how to configure Cloud Native storage (CNS) with appropriate policies
- Objective 4.7: Identify how to configure vSAN HCI Mesh
- Objective 4.8: Identify the interoperability of HCI mesh with vSAN
- Objective 4.9: Identify how to validate a vSAN deployment

Section 5 - Performance-tuning, Optimization, and Upgrades

- Objective 5.1: Given a scenario, identify how to apply patches using vSphere Lifecycle Manager (LCM)
- Objective 5.2: Given a scenario, identify how to upgrade an HCI environment using vSphere Lifecycle Manager (vLCM)
- Objective 5.3: Given a scenario, identify how to add and remove hosts from a vSAN cluster
- Objective 5.4: Given a scenario, identify how to create, expand, reconfigure, and remove disk groups and storage pools
- Objective 5.5: Given a scenario, identify how to create and remove vSAN Direct Configuration
- Objective 5.6: Given a scenario, identify how to manage firmware and driver versions using Skyline Health, vSphere Lifecycle Manager (LCM), and Compatibility Guide
- Objective 5.7: Identify how to set vSphere Lifecycle Manager (LCM) desired image
- Objective 5.8: Given a scenario, identify when to use component striping

Section 6- Troubleshooting and Repairing

- Objective 6.1: Given a scenario, identify the impact of the vSAN failure
- Objective 6.2: Given a vSAN scenario, interpret Skyline Health warnings
- Objective 6.3: Identify how to determine vSAN health using the UI or ESXCLI
- Objective 6.4: Identify how to gather vSAN performance information in the UI or using vsantop
- Objective 6.5: Identify how to manage vSAN hardware lifecycle
- Objective 6.6: Identify how to monitor resync impact
- Objective 6.7: Removed - Identify how to remove unassociated vSAN objects to reclaim capacity
- Objective 6.8: Identify the significance of durability components
- Objective 6.9: Identify how to resolve capacity issues using storage policies
- Objective 6.10: Identify how to resolve vSAN object compliance issues

Section 7- Administrative and Operational Task

- Objective 7.1: Identify how to create, update, and modify vSAN storage policies and apply to objects
- Objective 7.2: Identify vSAN data placement changes
- Objective 7.3: Identify how to interpret vSAN storage capacity
- Objective 7.4: Given a scenario, evaluate vSAN performance metrics
- Objective 7.5: Identify effects of maintenance mode options
- Objective 7.6: Given a scenario, identify how to add capacity to a vSAN cluster
- Objective 7.7: Given a scenario, identify how to patch a vSAN cluster
- Objective 7.8: Identify the operational characteristics/differences between standard vSAN cluster, vSAN 2-node architecture and vSAN stretched cluster
- Objective 7.9: Identify the characteristics of the different types of encryption
- Objective 7.10: Identify how to utilize TRIM and UNMAP from vSAN and guest OS perspective

Objective 7.11: Given a scenario, evaluate vSAN performance metrics

Objective 7.12: Given a scenario, identify the effects of maintenance mode options

Objective 7.13: Identify how to monitor vSAN storage policy compliance

Objective 7.14: Given a scenario, interpret the results of Skyline Health Check

Objective 7.15: Identify the impact of vSAN storage policy changes

Objective 7.16: Identify how to use Skyline health check to maintain a healthy status of a vSAN cluster

Objective 7.17: Given a scenario, identify how to start up and shut down a vSAN cluster

Objective 7.12 – Configure alarms

Recommended Courses

VMware vSAN: Install, Configure, Manage [v8]

Certification Requirements

VCP/ VCAP / VCDX / VCIX 2021 or newer

References

In addition to the recommended courses, item writers used the following references for information when writing exam questions. It is recommended that you study the reference content as you prepare to take the exam, in addition to the recommended training.

VMware vSAN: Install, Configure, Manage [v8] course
VMware vSAN Administration Guide
VMware vSAN Monitoring and Troubleshooting
vSAN Frequently Asked Questions
*Content in this exam is based on vSAN v8. Review all 8.0 release notes and material for features and function.

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