

5V0-21.19

VMware vSAN 6.7 Specialist

Exam Details

The VMware vSAN 6.7 Specialist Exam 2019 (5V0-21.19) which leads to VMware Specialist – vSAN 2020 badge, is a 60-item exam, with a passing score of 300 using a scaled method. Exam time is 115 minutes.

Exam Delivery

This is a proctored exam delivered through Pearson VUE. For more information, visit the [Pearson VUE website](#).

Badge 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) has 6-12 months hands-on experience configuring, managing, and designing vSphere and vSAN. The MQC can deploy and administer VMs using VMware vSphere Storage Policy-Based Management (SPBM). The MQC has basic knowledge in these areas: storage, networking, hardware, security, monitoring, and troubleshooting. The MQC holds a current VCP6-DCV, VCP6.5-DCV, VCP-DCV2019 or VCP-DCV2020 certification.

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 Task

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 the Exam

Section 1 – vSAN Architectures and Technologies

Objective 1.1 – Describe vSAN requirements

Objective 1.2 – Demonstrate how vSAN stores and protects data

Objective 1.3 – Define vSAN space efficiency features

Objective 1.4 – Define vSAN stretched cluster architecture requirements

Objective 1.5 – Compare the architectural requirements of a vSAN 2-node cluster and a stretched cluster

Section 2 - Planning and Designing – There are no testable objectives for this section

Section 3 - Planning and Designing a vSAN Solution

Objective 3.1 – Define and demonstrate vSAN design considerations

Objective 3.2 – Design a vSAN cluster

Objective 3.3 – Use vSAN design and sizing tools

Objective 3.4 – Explain interoperability with vSphere features

Objective 3.5 – Define which VMware solutions integrate with vSAN

Section 4 – vSAN Installation, Configuration, and Setup

Objective 4.1 – Configure and validate a vSAN configuration

Objective 4.2 – Create and manage disk groups

Objective 4.3 – Configure and validate vSAN services

Objective 4.4 – Configure vSAN stretched cluster and 2-node configurations

Section 5 – Performance-tuning, Optimization, and Upgrades – There are no testable objectives for this section

Section 6 – Troubleshooting and Repairing a vSAN solution

Objective 6.1 – Identify failure scenarios

Objective 6.2 – Interpret vSAN Health warnings

Objective 6.3 – Determine vSAN Health using vSphere Host Client, ESXCLI, and RVC

Objective 6.4 – Evaluate performance information in the UI and using CLI

Objective 6.5 – Manage hardware replacement

Section 7 – vSAN Administrative and Operational Tasks

Objective 7.1 – Create, update, and modify vSAN policies and apply to objects

Objective 7.2 – Describe vSAN data placement changes

Objective 7.3 – Interpret vSAN capacity terms

Objective 7.4 – Evaluate vSAN performance metrics

Objective 7.5 – Describe effects of maintenance mode options

Objective 7.6 – Explain how to add capacity to a vSAN cluster

Objective 7.7 – Patch or upgrade a vSAN cluster

Objective 7.8 – Describe the operational characteristics/differences between vSAN 2-node architecture and stretched cluster

Objective 7.9 – Explain encryption processes

Objective 7.10 – Explain how to utilize TRIM and UNMAP from vSAN and guest perspective

Sample Questions

Sample questions presented here are examples of the types of questions candidates may encounter and should not be used as a resource for exam preparation.

Sample Question 1

What is the maximum number of capacity disks in a vSAN disk group?

- A. 1
- B. 5
- C. 7
- D. 8

Sample Question 2

An administrator wants to increase the storage capacity of an existing vSAN cluster. The following settings are in place:

- vSAN nodes are configured with SAS SSDs for both cache and capacity tiers
- VMs do not have any memory reservations, and there is no memory over provisioning
- 4 open drive slots on each vSAN node

Which solution would allow the administrator to increase storage space?

- A. Map the vSAN nodes to iSCSI storage presented from another vSAN cluster.
- B. Enable and verify that the SwapThickProvisionedDisabled option is enabled and reboot VMs.
- C. Create a new disk group on each host by adding 4 SAS HDDs to each node.
- D. Redirect the vSAN traces to a syslog server.

Sample Question 3

Which two health check categories are included in vSAN Health service? (Choose two.)

- A. CPU utilization
- B. Disk I/O
- C. HA cluster
- D. Hardware compatibility
- E. Physical disk

Sample Question 4

VMware Technical Support requests a vm-support package.

Which two resources can be used to create this bundle? (Choose two.)

- A. cluster
- B. host
- C. vCenter
- D. virtual machine
- E. data center

Sample Question 5

Where is the vSAN performance service history information stored?

- A. vSAN datastore
- B. vCenter Server
- C. Cluster Monitoring, Membership, and Directory Service
- D. Cluster-Level Object Manager

Answer Key: 1-C; 2-B; 3-D, E; 4-B, C; 5-A

Recommended Courses

VMware vSAN Deploy and Manage 6.7

VMware vSAN Production Operations 6.7

*vSphere and vSAN content in this exam is based on versions 6.7 and 6.7 U1.

References

[Administering VMware vSAN](#)

[VMware Horizon 7 on VMware vSAN Best Practices \(Technical White Paper - October 2018\)](#)

[VMware Compatibility Guide for vSAN](#)

[VMware Product Interoperability Matrices](#)

[VMware Storage and Availability Technical Documents - VMware vSAN Design and Sizing Guide](#)

[VMware Storage and Availability Technical Documents - vSAN 2 Node Guide](#)

[VMware Storage and Availability Technical Documents - vSAN 6.7 Update 1 Technical Overview](#)

[VMware Storage and Availability Technical Documents – vSAN Network Design](#)

[VMware Virtual SAN - Disaster Recovery](#)

[VMware vSAN 6.7 Technical Overview](#)

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