Exam Details

The Professional vSphere 6.7 Exam 2019 (2V0-21.19) which leads to VMware Certified Professional – Data Center Virtualization 2020 certification is a 70-item exam, with a passing score of 300 using a scaled scoring method. Candidates are given 115 minutes to complete the exam.

Exam Delivery

This is a proctored exam delivered at Pearson VUE testing centers, world-wide. For more information, visit the Pearson VUE website.

Certification Information

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

Minimally Qualified Candidate

The minimally qualified candidate (MQC) has six to twelve months hands-on experience installing, configuring, and managing a vSphere solution. The candidate possesses skills in deploying and administering guest operating systems on a vSphere infrastructure. The successful candidate also has basic knowledge of: storage, networking, hardware, business continuity and disaster recovery, security, environmental monitoring and troubleshooting.

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 is missing from the list below, please note it is because the exam has no testable objectives for that section. 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 – VMware vSphere Architectures and Technologies

- Objective 1.1 – Identify the pre-requisites and components for vSphere implementation
- Objective 1.2 – Identify vCenter high availability (HA) requirements
- Objective 1.3 – Describe storage types for vSphere
- Objective 1.4 – Differentiate between NIOC and SIOC
- Objective 1.5 – Manage vCenter inventory efficiently
- Objective 1.6 – Describe and differentiate among vSphere, HA, DRS, and SDRS functionality
- Objective 1.7 – Describe and identify resource pools and use cases
- Objective 1.8 – Differentiate between VDS and VSS
- Objective 1.9 – Describe the purpose of cluster and the features it provides
- Objective 1.10 – Describe virtual machine (VM) file structure
- Objective 1.11 – Describe vMotion and Storage vMotion technology

Section 2 – VMware Products and Solutions

- Objective 2.1 – Describe vSphere integration with other VMware products
- Objective 2.2 – Describe HA solutions for vSphere
- Objective 2.3 – Describe the options for securing a vSphere environment

Section 3 – There are no testable objectives for this section.

Section 4 – Installing, Configuring, and Setting Up a VMware vSphere Solution

- Objective 4.1 – Understand basic log output from vSphere products
- Objective 4.2 – Create and configure vSphere objects
- Objective 4.3 – Set up a content library
- Objective 4.4 – Set up ESXi hosts
Objective 4.5 – Configure virtual networking
Objective 4.6 – Deploy and configure VMware vCenter Server Appliance (VCSA)
Objective 4.7 – Set up identity sources
Objective 4.8 – Configure an SSO domain

Section 5 – Performance-tuning and Optimizing a VMware vSphere Solution

Objective 5.1 – Determine effective snapshot use cases
Objective 5.2 – Monitor resources of VCSA in a vSphere environment
Objective 5.3 – Identify impacts of VM configurations

Section 6 – There are no testable objectives for this section.

Section 7 – Administrative and Operational Tasks in a VMware vSphere Solution

Objective 7.1 – Manage virtual networking
Objective 7.2 – Manage datastores
Objective 7.3 – Configure a storage policy
Objective 7.4 – Configure host security
Objective 7.5 – Configure role-based user management
Objective 7.6 – Configure and use vSphere Compute and Storage cluster options
Objective 7.7 – Perform different types of migrations
Objective 7.8 – Manage resources of a vSphere environment
Objective 7.9 – Create and manage VMs using different methods
Objective 7.10 – Create and manage templates
Objective 7.11 – Manage different VMware vCenter Server objects
Objective 7.12 – Setup permissions on datastores, clusters, vCenter, and hosts
Objective 7.13 – Identify and interpret affinity/anti affinity rules
Objective 7.14 – Understand use cases for alarms
Objective 7.15 – Utilize VMware vSphere Update Manager (VUM)
Objective 7.16 - Configure and manage host profiles

Recommended Courses

VMware vSphere: Install, Configure, Manage [V6.7]
VMware vSphere: Optimize and Scale [V6.7]

References*

In addition to the recommended courses, item writers use 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 any recommended training.

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<th>Name</th>
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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
The storage administrator has decided to implement NAS in a deployment.
Which hardware acceleration API should be used to change the virtual disk file?

A. full file clone
B. reserve space
C. native snapshot support
D. write same

Sample Question 2
A vSphere administrator has enabled vSphere Distributed Power Management (DPM) on a DRS cluster. The hosts are not entering standby mode even though there is enough available compute capacity.
Which feature should be enabled to ensure DPM functions correctly?

A. UEFI mode
B. vSphere HA
C. Wake on LAN
D. Proactive HA
Sample Question 3
Refer to the exhibit.

VM-A and VM-B are in a VM folder with permissions and role assignments:

- Role 1 can power on VMs
- Role 2 can restart VMs
- Group A is granted Role 1 on VM folder
- Group B is granted Role 2 on VM-B
- User 1 is part of Group A and Group B

Which permission does User 1 have?

A. Power on VM A and B
B. Restart VM A and B
C. Restart VM A only
D. Power on VM B only

Sample Question 4
An administrator is required to replace a storage array. The VM workloads require maximum uptime.

Which feature should the administrator use to meet this requirement?

A. vSphere vMotion
B. Storage vMotion
C. vSphere Update Manager
D. vSphere Replication
Sample Question 5
When vCenter HA configuration is completed, which of the three nodes hosts the management IP?

A. Passive
B. Witness
C. Quorum
D. Active

Sample Question 6
Which condition occurs when a storage device becomes inaccessible to the host and no paths to the device are available?

A. APD
B. ALUA
C. VMCP
D. SIOC

Sample Question 7
What must be done to apply a guest OS patch to an existing template?

A. upload patch to VUM
B. convert template to VM
C. use template wizard
D. revert to snapshot
Sample Question 8
An administrator attempts to add a standalone host to an existing cluster. The standalone host contains a resource pool.

What is a possible result of this action?

A. vCenter Server will put all host resources into a new folder, retaining the resource pool.
B. vCenter Server will put all host resources into a new data center, retaining the resource pool.
C. vCenter Server will put all host resources into the root of the cluster, destroying the resource pool.
D. vCenter Server will refuse admission to the cluster until the administrator manually deletes the resource pool.

Sample Question 9
A vSphere administrator needs to be alerted whenever a host power state changes.

How can this be done with alarms?

A. Set condition to Show as Critical.
B. Enable Power Alarm in DCUI.
C. Enable DPM on the cluster.
D. Enable Send Email notifications.

Sample Question 10
What is the minimum edition of vSphere needed to use host profiles?

A. vSphere Standard
B. vSphere Platinum
C. vSphere Essentials Plus
D. vSphere Enterprise Plus

Answer Key: 1-B; 2-C; 3-A; 4-B; 5-D; 6-A; 7-B; 8-C; 9-D; 10-D
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