Exam Details (Last Updated: 1/21/2020)
The Professional VMware vSphere 6.7 (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, which includes five-minute seating time and adequate time to complete the exam for non-native English speakers. Actual exam time is 110 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) 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 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 – 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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<tr>
<th>Name</th>
<th>Version</th>
<th>Products</th>
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<tr>
<td>vSphere Networking</td>
<td>VMware Docs</td>
<td>VMware ESXi 6.7, vCenter Server 6.7</td>
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<td>Platform Services Controller Administration</td>
<td>27 JUN 2018</td>
<td>VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7</td>
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<td>16 OCT 2018</td>
<td>VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7</td>
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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
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

![VMs in a VM folder with permissions and role assignments]

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
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