

# Professional VMware vSphere 6.7

## 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.

Name	Version	Products
<a href="#">vSphere Networking</a>	VMware Docs	
<a href="#">Performance Best Practices for VMware vSphere 6.7</a>	27 JUL 2018	VMware ESXi 6.7, vCenter Server 6.7
<a href="#">Platform Services Controller Administration</a>	27 JUN 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">Platform Services Controller Administration Update 1</a>	11 DEC 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vCenter Server and Host Management</a>	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vCenter Server and Host Management Update 1</a>	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vCenter Server Appliance Configuration Update 1</a>	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7

<a href="#">vCenter Server Installation and Setup</a>	22 JUN 2018	VMware vSphere 6.7, vCenter Server 6.7
<a href="#">vCenter Server Installation and Setup Update 1</a>	20 OCT 2018	VMware vSphere 6.7, vCenter Server 6.7
<a href="#">VMware ESXi Installation and Setup</a>	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7
<a href="#">VMware ESXi Installation and Setup Update 1</a>	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7
<a href="#">vSphere Availability</a>	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Host Profiles</a>	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Monitoring and Performance</a>	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Resource Management</a>	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Resource Management Update 1</a>	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Security</a>	21 JUN 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Storage Guide Update 1</a>	12 DEC 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
<a href="#">vSphere Update Manager Installation and Administration Guide</a>	17 APR 2018	VMware vSphere 6.7, vSphere Update Manager 6.7
<a href="#">vSphere Virtual Machine Administration Update 1</a>	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
*vSphere content in this exam based on V6.7 and [U1]. Review all 6.7 and [U1] release notes and material for features and function.		

## 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

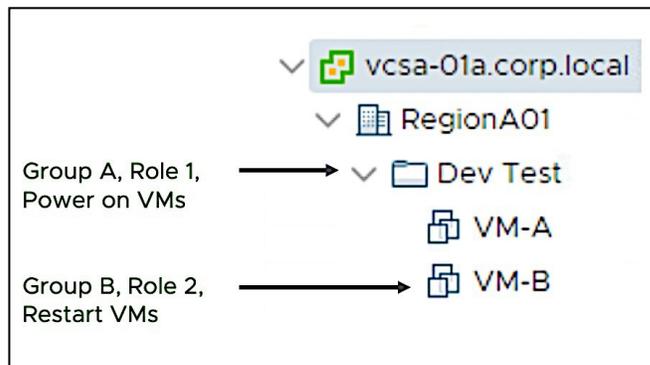
A vSphere administrator has enabled vSphere Distributed Power Management (DPM) on a DRS cluster. The hosts are not entering standby mode even though there is enough available compute capacity.

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

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