

2V0-21.19

Professional vSphere 6.7 Exam 2019



Exam Preparation Guide

Last Updated: Thursday, December 12, 2019

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.

Name	Version	Products
vSphere Networking	VMware Docs	
Performance Best Practices for VMware vSphere 6.7	27 JUL 2018	VMware ESXi 6.7, vCenter Server 6.7
Platform Services Controller Administration	27 JUN 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
Platform Services Controller Administration Update 1	11 DEC 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vCenter Server and Host Management	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vCenter Server and Host Management Update 1	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vCenter Server Appliance Configuration Update 1	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vCenter Server Installation and Setup	22 JUN 2018	VMware vSphere 6.7, vCenter Server 6.7
vCenter Server Installation and Setup Update 1	20 OCT 2018	VMware vSphere 6.7, vCenter Server 6.7
VMware ESXi Installation and Setup	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7
VMware ESXi Installation and Setup Update 1	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7
vSphere Availability	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vSphere Host Profiles	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vSphere Monitoring and Performance	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vSphere Resource Management	17 APR 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vSphere Resource Management Update 1	16 OCT 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vSphere Security	21 JUN 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7

vSphere Storage Guide Update 1	12 DEC 2018	VMware vSphere 6.7, VMware ESXi 6.7, vCenter Server 6.7
vSphere Update Manager Installation and Administration Guide	17 APR 2018	VMware vSphere 6.7, vSphere Update Manager 6.7
vSphere Virtual Machine Administration Update 1	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

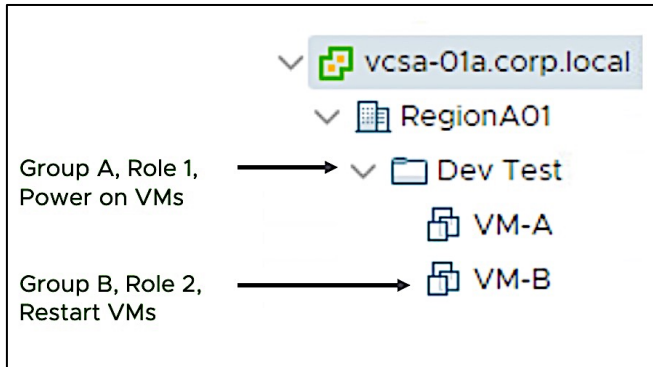
A vSphere administrator has enabled vSphere Distributed Power Management (DPM) on a DRS cluster. The hosts are not entering standby mode even though there is enough available compute capacity.

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

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

Exam Content Contributors:

Evelyn Baymon

Reed Burton

Gabriela Faba

Selvakumar Jaganathan

Prateek Jain

Patrick Kremer

Kevin Lubojacky

Jesse Martinez

Ivan Talley

Wee Kiong Tan