2V0-620

VMware vSphere 6 Foundations

Exam Summary – Syllabus –Questions

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Introduction to 2V0-620 Exam on VMware vSphere 6 Foundations

The VMware 2V0-620 exam preparation guide is designed to provide candidates with necessary information about the Foundations exam. It includes exam summary, sample questions, practice test, objectives and ways to interpret the exam objectives to enable candidates to assess the types of questions-answers that may be asked during the VMware vSphere 6 Foundations exam.

It is recommended for all the candidates to refer the 2V0-620 objectives and sample questions provided in this preparation guide. The VMware Foundations certification is mainly targeted to the candidates who want to build their career in Foundations domain and demonstrate their expertise. We suggest you to use practice exam listed in this cert guide to get used to with exam environment and identify the knowledge areas where you need more work prior to taking the actual VMware vSphere 6 Foundations exam.

VMware 2V0-620 Certification Details:

Exam Name	VMware vSphere 6 Foundations
Exam Code	2V0-620
Exam Price	$125 USD
Duration	115 minutes
Number of Questions	65
Passing Score	300 / 500
Recommended Training / Books	vSphere: Install, Configure, Manage [V6]
Schedule Exam	PEARSON VUE
Sample Questions	VMware 2V0-620 Sample Questions
Recommended Practice	**VMware vSphere 6 Foundations Practice Test**

VMware 2V0-620 Exam Syllabus:

Section	Objectives
Section 1: Install and configure vCenter Server and ESXI	
Identify vSphere Architecture and Solutions for a given use case	**Knowledge:** - Explain available vSphere editions and features - Explain the various data center solutions that interact with vSphere - Explain ESXi and vCenter Server architectures - Explain new solutions offered in the current version - Determine appropriate vSphere edition based on customer requirements **Tools:** - What's New in vSphere 6.0 - Platform - vSphere Installation and Setup Guide - vSphere Availability Guide - vSphere Storage Guide - vSphere Server and Host Management Guide
Install and configure vCenter Server	**Knowledge:** - Deploy the vCenter Appliance (vCSA) - Install vCenter Server onto a virtual machine - Create an ODBC Connection to a vCenter Server - Given a scenario, size the vCenter Database based on requirements - Install additional vCenter Server Components - Install and configure vSphere Client / vSphere Web Client - Install/Remove vSphere Client plug-ins - Enable/Disable vSphere Client plug-ins - License vCenter Server - Determine availability requirements for a vCenter Server in a given vSphere implementation **Tools:** - vSphere Installation and Setup Guide - vCenter Server and Host Management Guide - What's New in the VMware vSphere® 6.0 Platform - VMware vCenter Server™ 6.0 Deployment Guide - vSphere Client / vSphere Web Client
Install and configure ESXi	**Knowledge:** - Given a scenario, validate if an ESXi configuration meets given requirements - Perform a scripted installation of ESXi - Perform an interactive installation of ESXi using media or PXE - Configure NTP on an ESXi Host

Section	Objectives
	- Configure DNS and routing on an ESXi Host - Configure SSH and Shell access on an ESXi Host - Configure logs to be sent to a syslog server - License an ESXi host **Tools:** **-** vSphere Installation and Setup Guide - vCenter Server and Host Management Guide - Direct Console User Interface (DCUI) - vSphere Client / vSphere Web Client
Section 2: Configure vSphere Networking	
Configure vSphere Standard Switches (vSS)	**Knowledge:** - Explain vSphere Standard Switch (vSS) capabilities - Create/Delete a vSphere Standard Switch - Add/Configure/Remove vmnics on a vSphere Standard Switch - Configure vmkernel ports for network services - Add/Edit/Remove port groups on a vSphere Standard Switch - Determine use case for a vSphere Standard Switch **Tools:** **-** vSphere Installation and Setup Guide - vSphere Networking Guide - What's New in the VMware vSphere® 6.0 Platform - vSphere Client / vSphere Web Client
Configure vSphere Distributed Switches (vDS)	**Knowledge:** **-** Explain vSphere Distributed Switch (vDS) capabilities - Create/Delete a vSphere Distributed Switch - Add/Remove ESXi Hosts from a vSphere Distributed Switch - Add/Configure/Remove dvPort groups - Add/Remove uplink adapters to dvUplink groups - Configure vSphere Distributed Switch general and dvPort group settings - Create/Configure/Remove virtual adapters - Migrate virtual adapters to/from a vSphere Standard Switch - Migrate virtual machines to/from a vSphere Distributed Switch - Configure LACP on Uplink port groups - Determine use case for a vSphere Distributed Switch

Section	Objectives
	Tools: - vSphere Installation and Setup Guide - vSphere Networking Guide - What's New in the VMware vSphere® 6.0 Platform - vSphere Client / vSphere Web Client
Configure vSS and vDS Features	**Knowledge:** - Explain common vSS and vDS policies - Describe vDS Security Polices/Settings - Configure dvPort group blocking policies - Configure load balancing and failover policies - Configure VLAN/PVLAN settings - Configure traffic shaping policies - Enable TCP Segmentation Offload support for a virtual machine - Enable Jumbo Frames support on appropriate components - Given a scenario, determine appropriate VLAN configuration for a vSphere implementation **Tools:** - vSphere Installation and Setup Guide - vSphere Networking Guide - What's New in the VMware vSphere® 6.0 Platform - vSphere Client / vSphere Web Client
Section 3: Configure vSphere Storage	
Connect Shared Storage Devices to vSphere	**Knowledge:** - Explain storage naming conventions - Explain hardware/dependent hardware/software iSCSI initiator requirements - Configure FC/iSCSI/FCoE storage devices - Describe zoning and LUN masking practices - Create an NFS share for use with vSphere - Configure/Edit hardware/dependent hardware initiator - Connect/Configure NFS 3.x and 4.1 NAS devices - Enable/Disable software iSCSI initiator - Configure/Edit software iSCSI initiator settings - Configure iSCSI port binding - Enable/Configure/Disable iSCSI CHAP **Tools:** - vSphere Installation and Setup Guide - vSphere Storage Guide - vSphere Client / vSphere Web Client

Section	Objectives
Configure Software Defined Storage	**Knowledge:** - Explain Virtual SAN (VSAN) Architecture - Create/Delete VSAN Cluster - Manage VSAN disk groups - Monitor VSAN storage - Add/Remove VSAN Nodes - Explain benefits of NFS 4.1 - Determine use cases for Virtual SAN configurations **Tools:** - Administering VMware Virtual SAN - vSphere Storage Guide - What's New: VMware Virtual SAN 6.0 - What's New in the VMware vSphere® 6.0 Platform - vSphere Client / vSphere Web Client
Create and Configure VMFS and NFS Datastores	**Knowledge:** - Compare/Contrast supported NFS versions - Configure NFS storage for VMDK formatting - Configure storage multi-pathing - Compare/Contract VMFS3 and VMFS5 - Configure Storage Distributed Resource Scheduler (SDRS) - Extend/Expand VMFS Datastores - Place a VMFS Datastore in Maintenance Mode **Tools:** - vSphere Installation and Setup Guide - vSphere Storage Guide - What's New in the VMware vSphere® 6.0 Platform - vSphere Client / vSphere Web Client
Section 4: Deploy and Administer Virtual Machines and vApps	

Create and Deploy Virtual Machines	**Knowledge:**
	- Place virtual machines in selected ESXi Hosts/Clusters/Resource Pools
	- Configure and deploy a Guest OS into a new virtual machine
	- Configure/Modify virtual hardware:
	
	  1. CPU
	  2. RAM
	  3. Disk
	  4. vNIC

Section	Objectives
	- Create/Convert thin/thick provisioned virtual disks - Install/Upgrade VMware Tools and Virtual Hardware - Configure PCI Pass-through and Direct I/O - Configure virtual machine time synchronization **Tools:** - vSphere Virtual Machine Administration Guide - vSphere Installation and Setup Guide - vSphere Client / vSphere Web Client
Create and Deploy vApps	**Knowledge:** - Create/Deploy/Clone a vApp - Add objects to an existing vApp - Edit vApp settings - Configure IP pools - Suspend/Resume a vApp **Tools:** - vSphere Virtual Machine Administration Guide - vSphere Administration with the vSphere Client Guide - vSphere Client / vSphere Web Client
Manage Virtual Machine Clones and Templates	**Knowledge:** - Explain Cloning and Template options - Clone an existing virtual machine - Create a template from an existing virtual machine - Deploy a virtual machine from a template - Update existing virtual machine templates - Deploy virtual appliances and/or vApps from an OVF template - Import an OVF template - Create a Local Library - Create a Remote Library with/without external storage - Publish/Subscribe/Share Content Library - Deploy a virtual machine from a content library **Tools:** - vSphere Virtual Machine Administration Guide - vSphere Administration with the vSphere Client Guide - vSphere Client / vSphere Web Client
Administer Virtual Machines and vApps	**Knowledge:** - Explain files used by virtual machines - Explain common practices for securing virtual

Section	Objectives
	machines - Hot Extend a virtual disk - Configure virtual machine options - Configure virtual machine power settings - Configure virtual machine boot options - Administer virtual machine snapshots - Assign a Storage Policy to a virtual machine - Verify Storage Policy compliance for virtual machines - Adjust virtual machine resources - Differentiate between stop/shutdown/reboot/restart of a virtual machine **Tools:** **-** vSphere Virtual Machine Administration Guide - vSphere Administration with the vSphere Client Guide - vSphere Client / vSphere Web Client
Section 5: Establish and Maintain Availability and Resource Management Features	
Create and Configure VMware Clusters	**Knowledge:** **-** Determine how DRS and HA are applicable to an environment - Create/Delete a DRS/HA Cluster - Add/Remove ESXi Hosts from a DRS/HA Cluster - Add/Remove virtual machines from a DRS/HA Cluster - Configure Storage DRS - Configure Enhanced vMotion Compatibility - Monitor a DRS/HA Cluster - Configure migration thresholds for DRS and virtual machines - Configure automation levels for DRS and virtual machines - Enable/Configure/Disable Host Power Management/Distributed Power Management - Enable/Disable Host Monitoring - Enable/Configure/Disable virtual machine and application monitoring **Tools:** **-** vCenter Server and Host Management Guide - vSphere Availability Guide - vSphere Resource Management Guide - vSphere Administration with the vSphere Client

Section	Objectives
	Guide - vSphere Client / vSphere Web Client
Plan and Implement VMware Fault Tolerance	**Knowledge:** - Configure VMware Fault Tolerance networking - Given a scenario, determine an appropriate VMware Fault Tolerance configuration - Enable/Disable VMware Fault Tolerance on a virtual machine - Test a Fault Tolerant configuration - Determine use case for enabling VMware Fault Tolerance on a virtual machine **Tools:** - vSphere Availability Guide - vSphere Virtual Machine Administration Guide - vSphere Administration with the vSphere Client Guide - vSphere Client / vSphere Web Client
Create and Administer Resource Pools	**Knowledge:** - Explain vFlash architecture - Explain use cases for Resource Pools - Create/Remove a Resource Pool - Configure Resource Pool attributes - Add/Remove virtual machines from a Resource Pool - Create/Delete vFlash Resource Pool - Assign vFlash resources to VMDKs - Determine Resource Pool requirements for a given vSphere implementation **Tools:** - vSphere Resource Management Guide - vSphere Storage Guide - vSphere Virtual Machine Administration Guide - What's New in VMware vSphere® Flash Read Cache® - vSphere Client / vSphere Web Client
Migrate Virtual Machines	**Knowledge:** - Explain Enhanced vMotion Compatibility (EVC) - Explain Long Distance vMotion - Explain process for vMotion/Storage vMotion migrations - Configure virtual machine swap file location - Migrate a powered-off or suspended virtual

Section	Objectives
	machine - Migrate virtual machines using vMotion/Storage vMotion **Tools:** - vSphere Resource Management Guide - vCenter Server and Host Management Guide - vSphere Virtual Machine Administration Guide - vSphere Client / vSphere Web Client
Backup and Restore Virtual Machines	**Knowledge:** - Explain VMware Data Protection sizing Guidelines - Describe vSphere Replication architecture - Install and Configure VMware Data Protection - Create a backup job with VMware Data Protection - Perform a live full/file-level restore with VMware Data Protection - Create/Delete/Consolidate virtual machine snapshots - Perform a failback operation using vSphere Replication - Determine appropriate backup solution for a given vSphere implementation **Tools:** - VMware vSphere® Data Protection™ 6.0 - vSphere Data Protection Administration Guide - VMware vSphere® Data Protection™ Evaluation Guide - What's New in the VMware vSphere® 6.0 Platform - VMware vSphere Replication Administration - VDR Data Migration Tool - VDP Configure Utility - vSphere Client / vSphere Web Client
Update ESXi and Virtual Machines	**Knowledge:** - Create/Edit/Remove a Host Profile from an ESXi host - Attach/Apply a Host Profile to an ESXi host or cluster - Perform compliance scanning and remediation of an ESXi host using Host Profiles - Install and Configure vCenter Update Manager - Configure patch download options - Create/Edit/Delete an Update Manager baseline - Attach an Update Manager baseline to an ESXi host or cluster

Section	Objectives
	- Scan and remediate ESXi Hosts and virtual machines using Update Manager **Tools:** - vSphere Host Profiles Guide - Installing and Administering VMware vSphere Update Manager Guide - vSphere Update Manager Utility - vSphere Client / vSphere Web Client - Update Manager Web Client
Section 6: Perform Basic Troubleshooting	
Perform Basic Troubleshooting of ESXi and vCenter Server	**Knowledge:** - Troubleshoot common installation issues - Monitor status of ESXi management agents - Determine ESXi host stability issues and gather diagnostics information - Export diagnostic information - Monitor status of the vCenter Server service - Perform basic maintenance of a vCenter Server database **Tools:** - vSphere Troubleshooting Guide - vSphere Installation and Setup Guide - vSphere Networking Guide - vSphere Storage Guide - vSphere Client / vSphere Web Client
Perform Basic Troubleshooting of ESXi and vCenter Operations	**Knowledge:** - Verify network configuration - Troubleshoot common storage issues - Troubleshoot common virtual machine issues - Given a scenario, verify a virtual machine is configured with the correct network resources - Troubleshoot virtual switch and port group configuration issues - Troubleshoot physical network adapter configuration issues - Recognize and detect common knowledge base article solutions **Tools:** - vSphere Troubleshooting Guide - vSphere Networking Guide

Section	Objectives
	- vSphere Storage Guide - vSphere Client / vSphere Web Client
Perform Basic Troubleshooting of Virtual Machine Operations	**Knowledge:** **-** Troubleshoot virtual machine resource contention issues - Recognize and detect: 1. Fault Tolerant network latency issues 2. VMware Tools installation issues 3. Virtual machines states 4. Virtual machine constraints 5. Guest OS installation issues - Given a scenario, determine root cause of a storage issue based on troubleshooting information - Explain common virtual machine boot disk errors **Tools:** - vSphere Virtual Machine Administration Guide - vSphere Troubleshooting Guide - vSphere Client / vSphere Web Client
IIdentify and Troubleshoot Basic Misconfigurations	**Knowledge:** **-** Troubleshoot: 1. Virtual switch and distributed switches port group configuration issues 2. Physical network adapter configuration issues 3. NFS networking configuration issues 4. iSCSI software initiator configuration issues 5. HA configuration and redundancy issues 6. DRS Resource Distribution Graph 7. vMotion/Storage vMotion migration issues - Interpret vMotion Resource Maps - Given a scenario, verify a virtual machine is configured with the correct network resources **Tools:** **-** vSphere Troubleshooting Guide - vSphere Administration with the vSphere Client Guide - vSphere Client / vSphere Web Client
Section 7: Monitor a vSphere Implementation	
Monitor ESXi, vCenter Server	**Knowledge:**

Section	Objectives
and Virtual Machines	- Explain: 1. Common memory metrics 2. Common CPU metrics 3. Common network metrics 4. Common storage metrics - Configure SNMP for vCenter Server - Configure SMTP settings for vCenter Server - Create a log bundle - Create/Edit/Delete a Scheduled Task - Configure/View/Print/Export resource maps - Start/Stop/Verify vCenter Server service status - Start/Stop/Verify ESXi host agent status - Configure vCenter Server timeout settings - Identify vCenter Server connection object status - Create an Advanced Chart **Tools:** - vSphere Troubleshooting Guide - vSphere Monitoring and Performance Guide - vSphere Client / vSphere Web Client
Create and Administer vCenter Server Alarms	**Knowledge:** - List vCenter Server default utilization alarms - List vCenter Server default connectivity alarms - List possible actions for utilization and connectivity alarms - Create a vCenter Server utilization alarm - Create a vCenter Server connectivity alarm - Configure alarm triggers - Configure alarm actions - For a given alarm, identify the affected resource in a vSphere implementation **Tools:** - vCenter Server and Host Management Guide - vSphere Resource Management Guide - vSphere Monitoring and Performance Guide - vSphere Client / vSphere Web Client
Install, Configure, and Manage vCenter Operations Manager	**Knowledge:** - Differentiate Major/Minor vRealize Operations Manager badges - Explain vRealize Operations Manager architecture - Deploy and Configure vRealize Operations Manager appliance

Section	Objectives
	- Upgrade vRealize Operations Manager - Understand metrics used by Major/Minor vRealize Operations Manager badges - Monitor vSphere environment - For a given alarm, identify the affected resource in a vSphere implementation **Tools:** **-** VMware vCenter Operations Manager Getting Started Guide – vSphere UI - VMware vCenter Operations Manager Getting Started Guide – Custom UI - VMware vCenter Operations Manager Administration Guide (Custom UI) - vCenter Operations Manager Evaluation Guide - vSphere Monitoring and Performance Guide - vCenter Operations Manager Custom User Interface - vSphere Client / vSphere Web Client

2V0-620 Sample Questions:

01. As an administrator of a small virtual data center, you have just installed VUM. Which of the following are not true?
a) You will need to install a plug-in to your vSphere Client to configure the software.
b) You can configure the appliance through its web interface.
c) You can connect to the appliance at the address that was provided by DHCP at the time of the installation.
d) You have not installed a new appliance, only a new service.

02. Which of the following is a major badge of vCenter Operations Manager?
a) Time Remaining
b) Security
c) Risk
d) Capacity

03. How many hosts/clusters are supported with the vCenter Appliance?
a) 64
b) 32
c) 128
d) 16

04. An administrator is unable to access the Clone Virtual Machine wizard. Which condition could cause this behavior?
a) The vSphere Client is connected directly to an ESXi host.
b) The VM to be cloned is in an HA configured DRS cluster.
c) The VM to be cloned is FT enabled.
d) The VM hardware version doesn't support cloning.

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05. Which of the following are not true regarding VSAN configuration?
a) All hosts must be connected to the same Layer 2 network.
b) Multipathing support is not required between switches or routers.
c) Minimum host bandwidth is the same for hybrid configurations; which is 1/10 that for all-flash configurations.
d) VSAN fully supports both IPv4 and IPv6.

06. You want to view all hosts connected to a specific datastore. Which of the following is a valid option?
a) Home, Hosts and Clusters, click on Host, Manage, Storage Devices
b) Home, Storage, click on Datastore, Related Objects, Datastores
c) Home, Storage, click on Datastore, Related Objects, Hosts
d) Home, Hosts and Clusters, click on Host, Manage, Storage

07. Which of the following are true regarding a subscribed content library?
a) The administrator can change the options to download all content or just metadata.
b) The administrator can add content to the original library as needed.
c) The administrator can change the required password that will be used to connect to the library.
d) The administrator can choose to automatically synchronize all new content.

08. After installing a vCenter license, what can you click to verify the features that the license provides?
a) Examine
b) View Features in Use
c) Prepare
d) Type

09. Which two features are supported when using Fault Tolerance in vSphere 6.x?
a) Virtual Volumes (VVOLS)
b) Virtual Machine Component Protection
c) vMotion
d) vSphere Distributed Switches

10. What is NOT a benefit of using VMware Data Protection (VDP)?
a) Provides support for guest-level backups and restores of Microsoft SQL Servers, Exchange Servers, and Share Point Servers.
b) Provides support for advanced storage services including replication, encryption, deduplication, and compression.
c) Provides direct access to VDP configuration integrated into the vSphere Client.
d) Recovers Linux virtual machines through VMware Fault Tolerance (FT).

Answers to 2V0-620 Exam Questions:

Question: 01	Question: 02	Question: 03	Question: 04	Question: 05
Answer: b, c	Answer: c	Answer: a	Answer: a	Answer: b, d
Question: 06	Question: 07	Question: 08	Question: 09	Question: 10
Answer: c	Answer: a, d	Answer: b	Answer: c, d	Answer: d

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Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@vmexam.com