

2V0-602

VMware vSphere 6.5 Foundations

Exam Summary – Syllabus –Questions

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Introduction to 2V0-602 Exam on VMware vSphere 6.5 Foundations

The VMware 2V0-602 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 6.5 Foundations exam.

It is recommended for all the candidates to refer the 2V0-602 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 6.5 Foundations exam.

VMware 2V0-602 Certification Details:

Exam Name	VMware vSphere 6.5 Foundations
Exam Code	2V0-602
Exam Price	\$125 USD
Duration	105 minutes
Number of Questions	70
Passing Score	300 / 500
Recommended Training / Books	VMware vSphere: Install, Configure, Manage [V6.5]
Schedule Exam	PEARSON VUE
Sample Questions	VMware 2V0-602 Sample Questions
Recommended Practice	VMware vSphere 6.5 Foundations Practice Test

VMware 2V0-602 Exam Syllabus:

Section	Objectives
Section 1: Install and Configure vCenter Server 6.x and ESXi 6.x Hosts	
Identify vSphere Architecture and Solutions for a given use case	<ul style="list-style-type: none"> - 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 - Deploy a vSphere 6.x Content Library - Differentiate Update Manager deployment options
Install and Configure vCenter Server 6.x	<ul style="list-style-type: none"> - Deploy the vCenter Appliance (vCSA) - Install vCenter Server onto a virtual machine - Create an ODBC Connection to a vCenter Server - Differentiate vCenter Server deployment modes - Differentiate Platform Services Controller deployment options - Given a scenario, select and 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 using the Web Client - Determine availability requirements for a vCenter Server in a given vSphere implementation
Install and Configure ESXi 6.x Hosts	<ul style="list-style-type: none"> - 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 - 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 using the Web Client - Backup/Restore vCenter Server Virtual Appliance files - Migrate a vCenter Server to vCenter Server Virtual Appliance
Section 2: Configure and Manage vSphere 6.x Networking	
Configure vSphere Standard Switches (vSS)	<ul style="list-style-type: none"> - 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
Configure vSphere Distributed Switches (vDS)	<ul style="list-style-type: none"> - 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

Section	Objectives
	<ul style="list-style-type: none"> - 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 portgroups - Determine use case for a vSphere Distributed Switch
Configure vSS and vDS features based on given requirements	<ul style="list-style-type: none"> - Explain common vSS and vDS policies - Describe vDS Security Policies/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
Section 3: Configure and Manage vSphere 6.x Storage	
Connect Shared Storage devices to ESXi 6.x Hosts	<ul style="list-style-type: none"> - Explain storage naming conventions - Explain hardware/dependent hardware/software iSCSI initiator requirements - Configure FC/iSCSI/FCoE storage devices - Describe zoning and LUN masking practices - Configure/Edit hardware/dependent hardware initiator - Connect/Configure NFS 3 and 4.1 datastores - Enable/Disable software iSCSI initiator - Configure/Edit software iSCSI initiator settings - Configure iSCSI port binding - Enable/Configure/Disable iSCSI CHAP - Configure Dynamic and Static Target Discovery Addresses
Configure and Manage Software Defined Storage	<ul style="list-style-type: none"> - 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
Create and Configure VMFS and NFS Datastores	<ul style="list-style-type: none"> - Compare/Contrast supported NFS versions - Configure NFS storage for VMDK formatting - Configure storage multi-pathing - Compare/Contrast VMFS6 and VMFS5 - Configure Storage Distributed Resource Scheduler (SDRS) - Extend/Expand VMFS Datastores - Place a VMFS Datastore in Maintenance Mode
Section 4: Deploy and Administer Virtual Machines and vApps	
Create and Deploy Virtual Machines	<ul style="list-style-type: none"> - Place virtual machines in selected ESXi hosts/Clusters/Resource Pools

Section	Objectives
	<ul style="list-style-type: none"> - Configure and deploy a Guest OS into a new virtual machine - Configure/Modify virtual hardware: <ul style="list-style-type: none"> 1. CPU 2. RAM 3. Disk 4. vNIC - Create/Convert thin/thick provisioned virtual disks - Install/Upgrade VMware Tools and Virtual Hardware - Configure PCI Passthrough and Direct I/O - Configure virtual machine time synchronization
Create and Deploy vApps	<ul style="list-style-type: none"> - Create/Deploy/Clone a vApp - Add objects to an existing vApp - Edit vApp settings - Configure IP pools - Suspend/Resume a vApp
Manage Virtual Machine Clones and Templates	<ul style="list-style-type: none"> - 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
Administer Virtual Machines and vApps	<ul style="list-style-type: none"> - Explain files used by virtual machines - Explain common practices for securing virtual 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
Section 5: Establish and Maintain Availability and Resource Management Features	
Create and Configure VMware Clusters	<ul style="list-style-type: none"> - 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

Section	Objectives
	<ul style="list-style-type: none"> - Monitor a DRS/HA Cluster - Configure migration thresholds for DRS and virtual machines - Configure automation levels for DRS and virtual machines - Configure Virtual Machine Component Protection (VMCP) settings - Configure orchestrated VM restart with HA - Enable/Configure/Disable Host Power Management/Distributed Power Management - Enable/Disable HA Host Monitoring - Understand the features of Proactive HA - Understand the features of Proactive DRS - Configure HA Cluster-wide VM restart ordering - Enforce infrastructural or intra-app dependencies in HA
Plan and Implement VMware Fault Tolerance	<ul style="list-style-type: none"> - 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 - Configure NIC aggregation for Fault Tolerance
Create and Administer Resource Pools	<ul style="list-style-type: none"> - 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
Migrate Virtual Machines	<ul style="list-style-type: none"> - 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 machine - Migrate virtual machines using vMotion/Storage vMotion
Backup and Restore Virtual Machines	<ul style="list-style-type: none"> - 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
Update ESXi and Virtual Machines	<ul style="list-style-type: none"> - 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

Section	Objectives
	<ul style="list-style-type: none"> - Configure patch download options - Create/Edit/Delete an Update Manager baseline - Attach an Update Manager baseline to an ESXi host or cluster - Scan and remediate ESXi hosts and virtual machines using Update Manager
Section 6: Perform Basic Troubleshooting of a vSphere 6.x Implementation	
Perform basic troubleshooting of ESXi and vCenter installation issues	<ul style="list-style-type: none"> - 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
Perform basic troubleshooting of ESXi and vCenter operational issues	<ul style="list-style-type: none"> - 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
Perform basic troubleshooting of Virtual Machine operational issues	<ul style="list-style-type: none"> - Troubleshoot virtual machine resource contention issues - Recognize and detect: <ol style="list-style-type: none"> 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
Identify and troubleshoot basic misconfigurations	<ul style="list-style-type: none"> - Troubleshoot: <ol style="list-style-type: none"> 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

Section	Objectives
Section 7: Perform Basic Monitoring of a vSphere Implementation	
Monitor ESXi, vCenter, and Virtual Machines	<ul style="list-style-type: none"> - Explain: <ol style="list-style-type: none"> 1. Common memory metrics 2. Common CPU metrics 3. Common network metrics 4. Common storage metrics 5. Configure SNMP for vCenter Server 6. 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
Create and Administer vCenter Server Alarms	<ul style="list-style-type: none"> - 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
Configure and Manage vRealize Log Insight	<ul style="list-style-type: none"> - Explain vRealize Log Insight real-time log management - Identify use cases for vRealize Log Insight - Deploy the vRealize Log Insight virtual appliance - Configure vRealize Log Insight for initial use - Configure availability and scalability options for vRealize Log Insight - Use vRealize Log Insight logs to identify and troubleshoot issues - Integrate Content Packs with vRealize Log Insight - Configure Agents for use with vRealize Log Insight - Create Alerts - Create Snapshots - Build a query - Create/Edit charts - Clone/Rename/Delete a Dashboard - Given a solution, determine appropriate sizing for a vRealize Log Insight appliance

2V0-602 Sample Questions:

01. Which two options are available when migrating a powered off VM and relocating the attached disks?

- a) Thick Provision Eager Zeroed
- b) Raw Device Mapping Physical Compatibility
- c) Same format as source
- d) Raw Device Mapping Virtual compatibility

02. What are two requirements for Guest Operating System Customizations?

- a) The ESXi host that the virtual machine is running on must be version 5.5 or later.
- b) Microsoft Sysprep tools must be installed on the Windows VM to be cloned.
- c) VMware Tools must be installed on the virtual machine or template.
- d) The guest operating system being customized must be installed on a disk attached as SCSI node 0:0 in the virtual machine configuration.

03. When trying to export the vApp to the OVF, the option is grayed out. What solution allows for the export of a vApp?

- a) PowerOff the vApp.
- b) The vApp is marked as Non exportable
- c) Logout of the vSphere Client and use the vSphere WebClient.
- d) Change the port group where the VMs are connected to.

04. By default, how many login attempts will an ESXi host allow before locking out the account?

- a) 7
- b) 8
- c) 10
- d) 5

05. Which three features can be configured during the Initial creation of a cluster?

- a) Proactive HA
- b) EVC
- c) DRS
- d) vSAN

06. A VMware vSphere 6.x Administrator is creating an Alarm Action. What are three configurable actions?

- a) Shutdown Guest
- b) Restart Guest
- c) Send a notification email
- d) Migrate VM
- e) Run a command

07. Which virtual switch load balancing method should be used when teaming network interfaces with EtherChannel?

- a) Route based on originating virtual pod.
- b) Route based on IP hash.
- c) Route based on physical NIC load.
- d) Route based on source MAC hash.
- e) Use explicit failover order.

08. A Long-Distance vMotion migration cannot complete. Which three situations could cause this?

- a) The license currently in use for the two hosts is vSphere Enterprise Edition.
- b) The round-trip time between the hosts is greater than 150 milliseconds.
- c) The virtual machine is configured to use virtual NVMe disks.
- d) The vMotion traffic to the destination host is on the default TCP/IP stack.
- e) The license currently in use for the two hosts is vSphere Enterprise Plus Edition.

09. Which two options can change the thin provisioned disk to thick provisioned?

- a) Use vMotion to migrate the VM to another ESXI host without moving the disks.
- b) Use Storage vMotion of the running VM to the same datastore and select Thick Provision.
- c) Power off the VM, locate the VMDK disk in the Datastore browser, right-click that and select Inflate.
- d) Use Storage vMotion of the running VM to another datastore and select Thick Provision.

10. What three shares are available when configuring a Resource Pool?

- a) Custom
- b) low
- c) Maximum
- d) Normal
- e) None

Answers to 2V0-602 Exam Questions:

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

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