



# 2V0-621<sup>Q&As</sup>

VMware Certified Professional 6 – Data Center Virtualization

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### QUESTION 1

Which two reasons would prevent Storage Distributed Resource Scheduler (SDRS) from operating on a datastore? (Choose two.)

- A. The datastore has Storage I/O Control disabled.
- B. The datastore is connected to an unsupported host.
- C. The datastore is hosted on an NFS server.
- D. The datastore is hosted on an iSCSI server.

Correct Answer: AB

Explanation: Storage DRS to datastores is like DRS to hosts. It moves VMDKs from heavily utilized to less utilized datastores according to preset space and I/O metrics, making efficient storage management more achievable. Storage DRS can run in automatic mode, but most admins are using it in manual mode. This is understandable as we must keep in mind that Storage vMotion is not as light as vMotion, and hence should not be taken lightly. Storage DRS does use other storage management technologies like Storage I/O Control (SIOC), and can benefit from others like Profile-Driven Storage and vSphere API for Storage Awareness (VASA).

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### QUESTION 2

Which two options are available in the Virtual Machine Component Protection (VMCP) setting Response for Datastore with All Paths Down (APD)? (Choose two.)

- A. Issue Events
- B. Power off and restart virtual machines
- C. Reset virtual machines D. Leave Powered On

Correct Answer: AB

PDL failures A virtual machine is automatically failed over to a new host unless you have configured VMCP only to Issue events. APD events The response to APD events is more complex and accordingly the configuration is more fine-grained. After the user-configured Delay for VM failover for APD period has elapsed, the action taken depends on the policy you selected. An event will be issued and the virtual machine is restarted conservatively or aggressively. The conservative approach does not terminate the virtual machine if the success of the failover is unknown, for example in a network partition. The aggressive approach does terminate the virtual machine under these conditions. Neither approach terminates the virtual machine if there are insufficient resources in the cluster for the failover to succeed. If APD recovers before the user-configured Delay for VM failover for APD period has elapsed, you can choose to reset the affected virtual machines, which recovers the guest applications that were impacted by the IO failures.

Reference: <https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.avail.doc%2FGUID-F01F7EB8-FF9D-45E2-A093-5F56A788D027.html>

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### QUESTION 3

An administrator needs to migrate a very large virtual machine to vCloud Air from a branch office.



Which two components can be used to meet this requirement? (Choose two)

- A. Offline Data Transfer
- B. vCloud Air Disaster Recovery
- C. Data Center Extensions
- D. vCloud Connector

Correct Answer: AD

If you have large workloads to move, it may be advisable to utilize VMware Offline Data Transfer offering where it will provide you with an encrypted storage device and express mail your data and we will load it for you. Existing VMware customers can use vCloud Connector to connect, view, copy, and operate vSphere-virtualized applications across vSphere-based clouds. Both online and offline migration of applications is available.

Reference: <http://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vcloud-air/vcloud-air-faq.pdf>

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#### QUESTION 4

When upgrading vCenter Server, an administrator notices that the upgrade fails at the vCenter Single Sign-On installation.

What must be done to allow the upgrade to complete?

- A. Verify that the VMware Directory service can stop by manually restarting it.
- B. Verify that the vCenter Single Sign-On service can stop by manually restarting it.
- C. Uninstall vCenter Single Sign-On service.
- D. Uninstall the VMware Directory service.

Correct Answer: A

Prerequisites

Your current vCenter Single Sign-On must have been installed on a separate virtual machine (VM) or physical server from your vCenter Server instance. Verify your configuration meets the upgrade requirements, see vCenter Server for Windows Requirements. Complete the preparation to upgrade tasks. See Before Upgrading vCenter Server Verify that you have made a backup of your vCenter Server configuration and database. To verify that the VMware Directory Service is in a stable state and can stop, manually restart it. The VMware Directory service must be stopped for the vCenter Server upgrade software to uninstall vCenter Single Sign-On during the upgrade process. Download the vCenter Server Installer. See Download the vCenter Server for Windows Installer Reference:

<https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc%2FGUID-A94C1617-5F15-402A-B462-1AC6A041C73E.html>

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#### QUESTION 5

Which three parameters should be considered when calculating the bandwidth for vSphere Replication? (Choose three.)



- A. Data change rate
- B. Traffic rates
- C. Link speed
- D. Application type
- E. Hardware type

Correct Answer: ABC

Explanation: The amount of network bandwidth that vSphere Replication requires to replicate virtual machines efficiently depends on several factors in your environment.

1.

Network-based storage

2.

Size of dataset

3.

Data change rate

4.

Recovery point objective (RPO)

5.

Link speed

Reference: [https://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=2037268](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2037268)

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## QUESTION 6

What command line utility can be used to upgrade an ESXi host?

- A. esxcli
- B. esxupdate
- C. vihostupdate
- D. esxcfg

Correct Answer: A

ESXi Command-line interface - esxcli

Using the vSphere Command Line Interface (CLI), you can upgrade ESXi 5.x hosts to version 6.0.



For more information about upgrading ESXi 5.x hosts using esxcli commands, see the Upgrading Hosts by Using esxcli Commands

Reference: [https://kb.vmware.com/selfservice/microsites/search.do?](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2109711)

[language=en\\_US&cmd=displayKC&externalId=2109711](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2109711)

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### QUESTION 7

A task fails while creating a VMFS5 datastore on a disk with these characteristics:

1.

Was previously used by a Linux server

2.

Was not erased

3.

Is visible with the vSphere Web Client

Which action can be performed to resolve the issue?

A. Delete the partitions on the disk manually with partedUtil first.

B. Create a VMFS3 file system first, then upgrade it.

C. Create the VMFS5 file system manually using vmkfstools.

D. Delete the data with the vmkfstools command.

Correct Answer: A

Explanation: Please refer to link to understand more about it: [https://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=2046610](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2046610)

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### QUESTION 8

Refer to the Exhibit.



To provide access to a service or client, check the corresponding box.

By default, daemons will start automatically when any of their ports are opened, and stop when all of their ports are closed.

Name	Incoming Ports	Outgoing Ports	Protocols	Daemon
Required Services				
Secure Shell				
<input type="checkbox"/> SSH Client		22	TCP	N/A
<input checked="" type="checkbox"/> SSH Server	22		TCP	N/A
Simple Network Man...				
Ungrouped				

▼ Service Details	N/A
Status	N/A
▼ Allowed IP Addresses	Connections not allowed from all IP address
IP Addresses	<input type="checkbox"/> Allow connections from any IP address
	<input type="text" value="192.168.1.0/24,192.168.2.220"/>
	Enter a comma-separated list of IP addresses. E.g.: 111.111.111.111, 111.111.111/22

OK

Cancel

An administrator has configured a firewall rule as shown in the Exhibit. Which statement best describes the ESXi 6.x firewall rule?

- A. Connections from the ESXi host to all devices on the 192.168.1.0 network and 192.168.2.220 on port 22 are allowed.
- B. Connections coming from IP addresses from the 192.168.1.0 network and 192.168.2.220 on port 22 are allowed.
- C. TCP Connections coming from IP addresses from the 192.168.1.0 network and 192.168.2.220 on port 22 are not allowed.
- D. TCP Connections from the ESXi host to all devices on the 192.168.1.0 network and 192.168.2.220 on port 22 are not allowed.

Correct Answer: B

Port 22 SSH on ESXi allowed : "Allow connections from any IP address," or, you can select "Only allow connections from the following networks" and enter an IP address or subnet. You can enter multiple IP addresses and subnets, separated with a comma. By default, there is a set of predefined firewall rules that can be enabled/disabled for the ESXi host from the vSphere Client. These firewall services can be enabled/disabled for the defined ports (UDP/TCP) from the vSphere Client. However, if you need to enable the service on a protocol that is not defined, you must create new firewall rules from the command line. For example, the DNS Client service can be enabled/disabled only on UDP port 53.

To enable DNS for TCP:

Open an SSH connection to the host. For more information, see Using ESXi Shell in ESXi 5.0 and 6.0



(2004746).

List the firewall rules by running the command:

```
# esxcli network firewall ruleset list
```

<https://kb.vmware.com/selfservice/microsites/search.do?>

language=en\_US&cmd=displayKCandexternalId=2008226

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### QUESTION 9

An administrator is creating a new Platform Service Controller Password Policy with the following requirements:

Minimum length: Minimum of 8 characters.

1.

Restrict use: 6.

2.

Character requirements: At least one upper-case letter, one number, and one special character.

3.

Identical adjacent characters: 0.

When trying to assign the password "P@\$\$w0rd", the administrator receives an error that the password does not meet the Password Policy requirements.

Which part of the Password Policy does this password violate?

A. Minimum length

B. Character requirements

C. Restrict use

D. Identical adjacent characters

Correct Answer: D

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### QUESTION 10

An administrator with global administrator privileges creates a custom role but fails to assign any privileges to it.

Which two privileges would the custom role have? (Choose two.)

A. System.View

B. System.Anonymous



C. System.User

D. System.ReadOnly

Correct Answer: AB

When you add a custom role and do not assign any privileges to it, the role is created as a Read Only role with three system-defined privileges: System.Anonymous, System.View, and System.Read.

Reference: <https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.hostclient.doc/GUID-5ACE7CFA75EC-4EF3-95E7-19962D76225E.html>)

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### QUESTION 11

Which file determines the location of the installation script during a scripted upgrade?

A. boot.cfg

B. ks.cfg

C. script.cfg

D. upgrade.cfg

Correct Answer: A

About the boot.cfg File The boot loader configuration file boot.cfg specifies the kernel, the kernel options, and the boot modules that the mboot.c32 boot loader uses in an ESXi installation. The boot.cfg file is provided in the ESXi installer. You can modify the kernelopt line of the boot.cfg file to specify the location of an installation script or to pass other boot options. The boot.cfg file has the following syntax: # boot.cfg -- mboot configuration file # # Any line preceded with \"#\" is a comment.

```
title=STRING kernel=FILEPATH kernelopt=STRING modules=FILEPATH1 --- FILEPATH2... --- FILEPATHn
```

# Any other line must remain unchanged. The commands in boot.cfg configure the boot loader.

Reference: <https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc%2FGUID-1DE4EC58-8665-4F14-9AB4-1C62297D866B.html>

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### QUESTION 12

An administrator wants to monitor virtual machines on a host and send notifications when memory usage reaches 80%.

What should the administrator create in vCenter Server to accomplish this?

A. A host alarm that will monitor virtual machine memory usage and set a trigger to email the notification.

B. A vCenter Server alarm that will monitor virtual machine memory usage and set an action to email the notification.

C. A host alarm that will monitor virtual machine memory usage and set an action to email the notification.

D. A vCenter Server alarm that will monitor virtual machine memory usage and set a trigger to email the notification.



Correct Answer: B

#### Alarm Actions

Alarm actions are operations that occur in response to triggered alarms. For example, email notifications are alarm actions.

Reference:

[https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp#com.vmware.vsphere.dcadmin.doc\\_41/](https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp#com.vmware.vsphere.dcadmin.doc_41/vc_client_help/working_with_alarms/c_alarm_actions.html)

[vc\\_client\\_help/working\\_with\\_alarms/c\\_alarm\\_actions.html](https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp#com.vmware.vsphere.dcadmin.doc_41/vc_client_help/working_with_alarms/c_alarm_actions.html)

<https://pubs.vmware.com/vsphere-51/index.jsp#com.vmware.vsphere.solutions.doc/GUID-2888F03222A4-49C1-B27E-45F073E7C785.html>

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### QUESTION 13

An administrator tries to run esxtop to troubleshoot CPU performance issues, but no output is displayed.

How can the issue be resolved?

- A. esxtop is deprecated in vSphere 6.x, resxtop must be used to produce the desired output.
- B. In esxtop, press f and place an asterisk next to each field that should be displayed.
- C. sudo should be run in front of esxtop to give the administrator the proper permissions.
- D. The esxtop command must be run from the /proc directory to produce output.

Correct Answer: B

Press F (Field Order) to modify fields which you want to display. Then hit Enter to validate.

```
Current Field order: A B C D E F G H I J K L M N O P
* A:  DEVICE = Device Name
* B:  ID = Path/World/Partition Id
* C:  NUM = Num of Objects
* D:  SHARES = Shares
* E:  BLKSZ = Block Size (bytes)
* F:  QSTATS = Queue Stats
* G:  IOSTATS = I/O Stats
* H:  RESVSTATS = Reserve Stats
* I:  LATSTATS/cmd = Overall Latency Stats (ms)
* J:  LATSTATS/rd = Read Latency Stats (ms)
* K:  LATSTATS/wr = Write Latency Stats (ms)
* L:  ERRSTATS/s = Error Stats
* M:  PAESTATS/s = PAE Stats
* N:  SPLTSTATS/s = SPLIT Stats
* O:  VAAIStats- VAAI Stats
* P:  VAAILATSTATS/cmd = VAAI Latency Stats (ms)
Toggle fields with a-p, any other key to return: █
```

Reference: <http://www.vladan.fr/storage-performance-troubleshooting-with-esxtop-guide/>

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#### QUESTION 14

What are three recommended prerequisites before upgrading virtual machine hardware? (Choose three.)

- A. Create a backup or snapshot of the virtual machine.
- B. Upgrade VMware Tools to the latest version.
- C. Verify that the virtual machine is stored on VMFS3, VMFS5, or NFS datastores.
- D. Detach all CD-ROM/ISO images from the virtual machines.
- E. Set the Advanced Parameter virtualHW.version = 11

Correct Answer: ABC

Explanation: Before you upgrade the virtual hardware:

1. Create a backup or snapshot of the virtual machine. For more information, see:

1.

Take a Snapshot in the vSphere Web Client section in the vSphere 5.1 Virtual Machine Administration guide.

2.

Take a Snapshot in the vSphere Client section in the vSphere 5.1 Virtual Machine Administration guide.

2.

Upgrade VMware Tools. On Microsoft Windows virtual machines, if you upgrade the virtual hardware before you upgrade VMware Tools, the virtual machine might lose its network settings.

3.

Verify that all .vmdk files are available to the ESXi/ESX hosts on a VMFS 3, VMFS 5, or NFS datastore.

4.

Verify that the virtual machines are stored on VMFS 3, VMFS 5 or NFS datastores.

5.

Determine the version of the virtual hardware by selecting the virtual machine from the vSphere Client or vSphere Web Client and clicking the Summary tab. The VM Version label in the Compatibility field displays the virtual hardware version

Reference: [https://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1010675](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1010675)

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#### QUESTION 15

An administrator wants to set a non-default isolation address of 192.168.1.2 for High Availability.



Which advanced setting would accomplish this task?

- A. Das.isolationaddress0=192.168.1.2
- B. Das.useisolationaddress0=192.168.1.2
- C. Das.defaultisolationaddress0=192.168.1.2
- D. Das.haisolationaddress0=192.168.1.2

Correct Answer: A

Explanation: Details In VirtualCenter Server 2.0.2 and above, you can specify more than one isolation response address for VMware High Availability (HA). The use of multiple isolation response addresses offers VMware HA a potentially more accurate picture of the network connectivity of a host. There may be situations in which a single isolation address would indicate that a host is in a state of complete isolation from the network, but access to additional isolation addresses would show that only a partial network failure has occurred. Solution Multiple isolation response addresses can be specified using the das.isolationaddress0 through das.isolationaddress9options.

To specify the values for these options in Virtual Infrastructure Client:

1.

Select the HA cluster.

2.

On the Summary tab, click Edit Settings.

3.

In the Settings dialog, select VMware HA.

4.

Click Advanced Options.

5.

In the Advanced Options (HA) dialog, enter the option name and the corresponding value:

1.

Option: das.isolationaddress0

2.

Value: A valid IP address other than the default gateway address

Similarly, you can set more isolation response addresses using das.isolationaddress1 throughdas.isolationaddress9.

6. In the Advanced Options (HA) dialog box, set this option:

Option: das.usedefaultisolationaddress

Value: false



Notes:

-

You must set this option if you are setting multiple isolation response addresses.

-

Additionally you should configure `das.usedefaultisolationaddress` to false when the default gateway is a device which cannot be pinged.

7.

Click OK.

8.

Click OK.

9.

Edit settings for the cluster again.

10.

Disable HA and click OK.

11.

Edit settings again.

12.

Enable HA and click OK.

Reference: [https://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1002117](https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1002117)

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