# VCP-510<sup>Q&As</sup>

VMware Certified Professional on VSphere 5

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**QUESTION 1**

A vSphere Standard Switch has been configured for IP-based load balancing using two uplinks. A new uplink is added to the vSwitch. What is the status of the uplink by default?

A. The uplink is placed in standby mode until it is added to the active NIC team.

B. The uplink is marked as active but does not participate in the active NIC team until assigned to a port group.

C. The uplink is marked as active, but cannot be used by the active NIC team until it is added to the existing 802.3ad group on the physical switch.

D. The uplink is marked as unused until it is added to the active NIC team.

Correct Answer: C

**QUESTION 2**

An administrator is creating a new virtual machine using the New Virtual Machine wizard in custom mode on an ESXi 5.x host with two quad-core CPUs. What would limit the maximum number of virtual sockets for the virtual machine to 8? (Choose three.)

A. Windows 2008 32-bit is configured as the guest operating system.

B. Virtual machine hardware version 8 is configured for the VM.

C. Hyperthreading is disabled on the ESXi host.

D. The ESXi host is configured with a Standard license.

E. The number of cores per virtual socket is set to 4.

Correct Answer: CDE

**QUESTION 3**

Which feature allows a running virtual machine to be moved from one ESXi host to another without interruption?

A. Storage VMotion

B. HA

C. Cold Migration

D. VMotion

Correct Answer: D

**QUESTION 4**

Which two statements are true about shared storage capabilities on NFS datastores supported by ESXi 5.x? (Choose two.)

A. You can create Fault Tolerant virtual machines

B. You can mount up to 256 NFS datastores

C. You can use VMware Storage APIs with all NFS datastores

D. You can use Storage vMotion from a virtual-mode RDM

Correct Answer: AB

**QUESTION 5**

An administrator receives a complaint that a virtual machine is performing poorly. The user attributes the issue to poor storage performance. If the storage array is the bottleneck, which two counters would be higher than normal? (Choose two.)

A. Average ESXi VMKernel latency per command, in milliseconds (KAVG per cmd)

B. Average device latency per command, in milliseconds (DAVG per cmd)

C. Average virtual machine operating system latency per command, in milliseconds (GAVG per cmd)

D. Number of SCSI reservation conflicts per second (CONS per second)

Correct Answer: BD

**QUESTION 6**

An administrator uses VMware Data Recovery to make backups of virtual machines. Checking on the backup jobs that were run the previous evening, the administrator notices that some jobs completed but that other jobs did not. What are two possible causes for the failure? (Choose two.)

A. The deduplication store had 400GB of available space before the start of the affected jobs.

B. Eight backup jobs were running simultaneously, causing new jobs to fail to start.

C. The backup window was not open long enough to retrieve all of the changed blocks.

D. CPU utilization on the VDR appliance exceeded 90% before one or more jobs executed.

Correct Answer: BD

**QUESTION 7**

Which types of traffic can a VMkernel port be enabled to carry on a ESXi 5.x host? (Choose three.)

A. NFS

B. Fault Tolerant

C. Management

D. iSCSI

E. vMotion

Correct Answer: BCE

QUESTION 8

An administrator is editing the IP allocation policy for a vApp. Which three options are available? (Choose three.)

A. Automatic

B. Roaming

C. Transient

D. DHCP

E. Fixed

Correct Answer: CDE

QUESTION 9

What are possible valid uses for the default No Access role in vCenter? (Choose two.)

A. Restrict usage on a object for a member of a group assigned full permissions to the object

B. Restrict access to sensitive VMs for helpdesk staff

C. Restrict ESX Admins from managing specific hosts directly

D. Restrict administrators from managing hosts via vCenter

Correct Answer: BD

QUESTION 10

A company has been utilizing templates in its environment. It is running a 10-node ESXi 5.x Cluster and DRS has not been configured. Several virtual machines have been deployed from this template and successfully powered on, but a newly deployed virtual machine will not power on. There appears to be adequate CPU and Memory resources available on the host. Which three things can be done to allow more virtual machines to be deployed into the cluster from this template? (Choose three.)

A. Deploy the virtual machine to a different host using the same datastore

B. Enable DRS on the cluster to balance the virtual load out across hosts

C. Increase the virtual machine memory reservation

D. Move the swap file to a different location

E. Select a different datastore for the virtual machine

Correct Answer: CDE

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**QUESTION 11**

An administrator has a mixture of Intel-based ESX Hosts in a DRS cluster where the CPUs are compatible in every way except that some support the NX/XD feature and some do not.

Which two actions will minimize the effect of these differences? (Choose two.)

A. Mask the NX/XD bit in the Processor section of the Configuration tab on the ESXi hosts

B. Mask the NX/XD bit on every virtual machine in the cluster

C. Enable Enhanced VMotion Compatibility

D. Enable Rapid Virtualization Indexing

Correct Answer: BC

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**QUESTION 12**

Assuming that the appropriate HA configuration options have been selected, in which two situations would vSphere HA be unable to restart virtual machines? (Choose two.)

A. A storage error has occurred on the fiber channel storage array.

B. An ESXi host in the cluster becomes isolated from the network

C. An ESXi host was automatically put into Standby Mode

D. Licensing was not updated after an upgrade from vSphere 4.x

Correct Answer: AD

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**QUESTION 13**

A database administrator has reported periodic poor performance on a particular virtual machine. The virtual machine administrator has noticed a significant drop in performance when utilized memory exceeds 1GB . What does this indicate and what could be checked next?

A. The application problems are definitely due to a non-memory-related problem. CPU affinity settings should be checked for this virtual machine.

B. The application problems are definitely due to a non-memory-related problem. CPU utilization should be checked next, using Windows Task Manager.

C. The virtual machine might not have physical memory available. Compression and swap activity on the ESXi host should be checked next.

D. The virtual machine might not have physical memory available. Ensure the memory limit on the VM is set to 0 MB

Correct Answer: C

### QUESTION 14

What is a benefit of vCenter Linked-Mode?

A. Allows the vCenter Server Virtual Appliance (vCSA) to manage multiple sites

B. Pools vRAM entitlement

C. Increases vCenter security

D. Increases vCenter reliability

Correct Answer: B

### QUESTION 15

Which two conditions must exist on all hosts in the cluster if Enhanced vMotion Compatibility (EVC) is used? (Choose two.)

A. The cluster must be enabled for DRS.

B. All hosts in the cluster must be running ESX/ESXi 3.5 Update 2 or later.

C. All hosts in the cluster must have hardware virtualization support enabled.

D. The cluster must be enabled for HA.

Correct Answer: BC

### QUESTION 16

Which type of port on a secondary private VLAN can communicate with promiscuous ports and other ports that share its VLAN tag?

A. Isolated

B. Promiscuous

C. Community

D. Trunked

Correct Answer: C

**QUESTION 17**

An iSCSI array is being added to a vSphere 5.x implementation. An administrator wants to verify that all IP storage VMkernel interfaces are configured for jumbo frames. What are two methods to verify this configuration? (Choose two.)

A. Run the esxcli network ip interface list command

B. Run the esxcfg-vswif -l command

C. Ensure that the Enable Jumbo Frames box is checked in the VMkernel interface properties in the vSphere client

D. Ensure that the MTU size is set correctly in the VMkernel interface properties in the vSphere client

Correct Answer: AD

**QUESTION 18**

Which two options cannot be edited if vApp Options is disabled in the Options tab of a virtual machine that is part of a vApp? (Choose two.)

A. Transient IP Addresses

B. Configure OVF properties

C. IPv6 Protocol

D. IPv4 Protocol

Correct Answer: AB

**QUESTION 19**

Which is an important benefit provided by VLANs?

A. Reduced hardware requirements

B. Increased broadcast traffic

C. Fault tolerance

D. Increased security on a network segment

Correct Answer: A

**QUESTION 20**

An administrator is performing an upgrade on an ESXi host. Which step can be used to back up the host before the upgrade is performed?

A. Using the vSphere Client connected to vCenter, right-click the host and choose Host Backup.

B. Log into a vMA appliance and run vicfg-cfgbackup to save the ESXi host configuration.

C. Using the vSphere Client connected directly to the host, right-click the host and choose Host Backup.

D. Use PowerCLI to run the host-backup cmdlet to save the ESXi host configuration.

Correct Answer: B

**QUESTION 21**

Which three tasks can be selected from the home page of an ESXi 5.x host? (Choose three.)

A. Browse objects managed by the host

B. Browse NFS mounts for this host

C. Download VMware vCenter or the vSphere client from vmware.com

D. Shutdown or restart the host

E. Download the PowerCLI installer

Correct Answer: ABC

**QUESTION 22**

What are two requirements when configuring a Fibre Channel SAN with an ESXi 5.x cluster? (Choose two.)

A. RDMs must be zoned and masked to each ESXi 5 host in the cluster

B. A FCP HBA or hardware supporting FCoE must be installed in the hosts

C. Each LUN should contain only one NFS datastore.

D. Each LUN must present a unique LUN ID to each ESXi hosts.

Correct Answer: AB

**QUESTION 23**

The vSwitch or vSwitch port group policy setting that allows a virtual machine to transmit packets that contain a MAC address other than the address defined for the VM is:

A. Promiscuous Mode

B. Forged Transmits

C. Traffic Shaping

D. MAC Address Changes

Correct Answer: B

QUESTION 24

Under which two situations does the dead space reclamation feature VAAI Thin Provisioning offer the ability to reclaim blocks of a thin provisional LUN on a array? (Choose two)

A. When a virtual machine is migrated to a different datastore.

B. When a guest OS files in a virtual disk are deleted.

C. When a virtual machine is migrated to a different host.

D. When a virtual disk is deleted.

Correct Answer: AD

QUESTION 25

An administrator is configuring iSCSI for use with a vSphere environment. Which networking feature should be configured on the ESXi host to improve iSCSI performance?

A. Jumbo Frames

B. NetQueue

C. EtherChannel

D. PortFast

Correct Answer: A

QUESTION 26

A storage array containing a VMFS datastore must be taken offline for maintenance. What can be done to avoid virtual machine downtime on VMs running in this datastore?

A. Clone the virtual machines to a VMFS datastore on a different storage array.

B. Use Site Recovery Manager to failover the virtual machines on the storage array to the recovery site.

C. Use vSphere HA to failover the virtual machines to ESX Servers attached to a different storage array.

D. Use Storage VMotion to migrate the virtual machines to a VMFS datastore on a different storage array.

Correct Answer: D

**QUESTION 27**

An administrator is installing a Windows Server 2008 operating system into a virtual machine on an ESXi 5.x host. What are two valid SCSI adaptors for this installation? (Choose two.)

A. Paravirtual SCSI

B. LSI Logic SAS

C. BusLogic SAS

D. Broadcom SAS

Correct Answer: AB

**QUESTION 28**

What are two requirements for a fully functional vSphere HA cluster? (Choose two.)

A. vCenter installed or a vCenter Server Virtual Appliance (vCSA) deployed.

B. Access to local storage for each host in the cluster.

C. Static IP addresses entered in each hosts file in the cluster.

D. A minimum of one VMkernel port per host.

Correct Answer: AD

**QUESTION 29**

Click the Exhibit button. An administrator has deployed a new virtual machine on an ESXi 5.x host. Users are complaining of poor performance on the application running on the virtual machine. Performance tools display the results shown in the exhibit. Which two tasks might improve the user experience? (Choose two.)
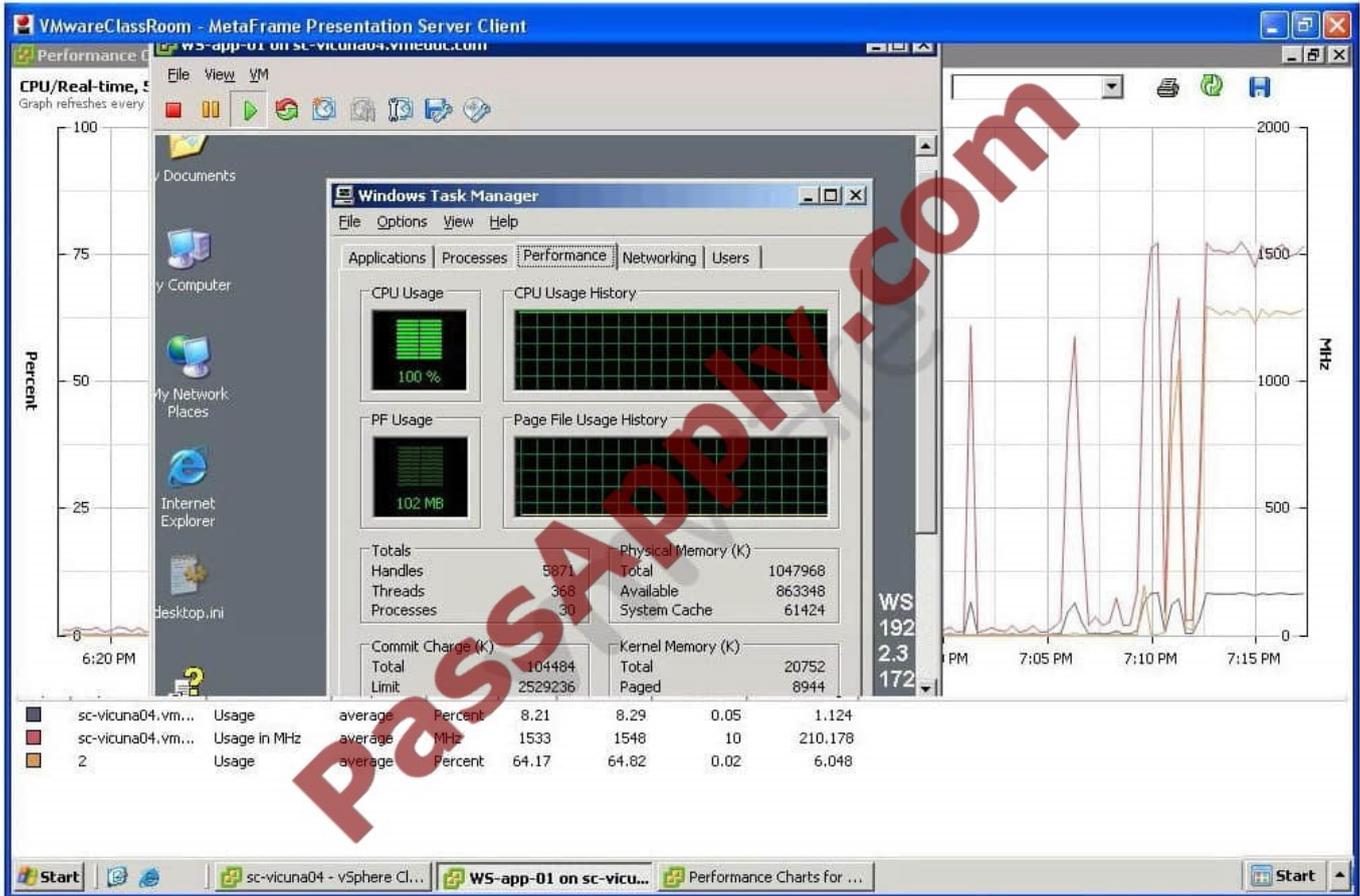
A. Add a vCPU to the virtual machine

B. Remove CPU affinity on the advanced CPU setting of the virtual machine

C. Migrate the virtual machine to another ESXi host

D. Remove the limit on the CPU settings of the virtual machine

Correct Answer: AD

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**QUESTION 30**

Click the Exhibit button. An administrator is applying patches to a batch of ESXi 5.x hosts in an under- allocated HA/DRS cluster.

An attempt is made to place the host into maintenance mode, but the progress has stalled at 2%. DRS is configured as shown in the exhibit.

Of the four choices below, two would effectively resolve this issue. Which two steps could be taken to correct the problem? (Choose two.)
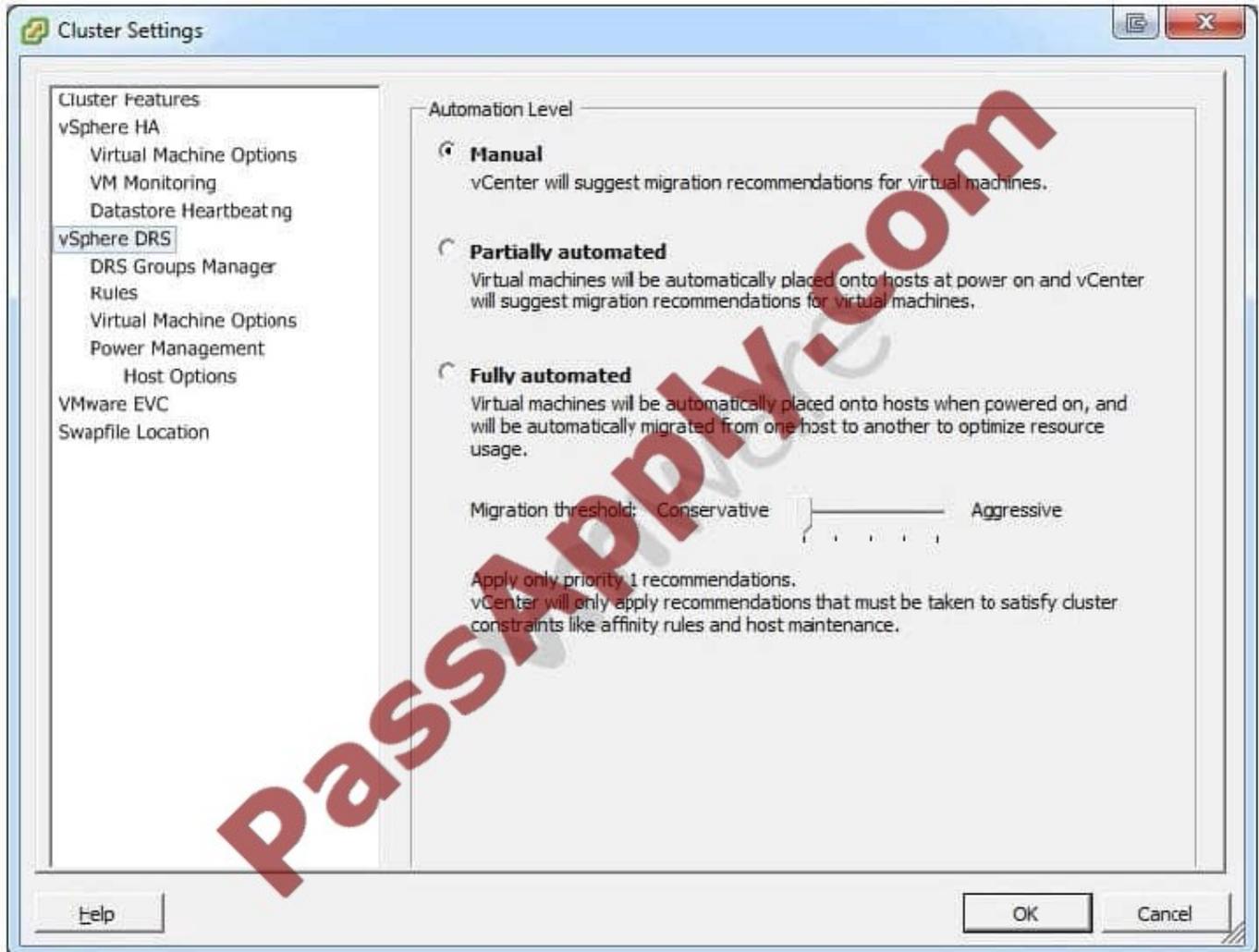
A. Enable VMware EVC.

B. Set the virtual machines on the host to Fully Automated.

C. Shut down the virtual machines on the host.

D. Move the virtual machine swap file off the local datastore.

Correct Answer: BC

**QUESTION 31**

The storage administrator is preparing an action plan to upgrade a Fibre Channel storage array. The current plan will result in extended downtime for a VMFS LUN that is part of a SDRS cluster. What steps can be taken in a vSphere 5.x environment to minimize the impact of the downtime? (Choose two.)

A. Ensure there are multiple active paths to the LUN

B. Ensure DRS is configured properly

C. Use Storage vMotion to migrate the affected VMDKs

D. Place the datastore into maintenance mode

Correct Answer: CD

**QUESTION 32**

While building a VMware View environment one of the design requirements is keeping vCenter and View Composer always available. Which solution can be utilized to achieve this?

A. vCenter Server Heartbeat

B. vSphere HA

C. vSphere FT

D. Host Based Replication

Correct Answer: A

**QUESTION 33**

An administrator is setting up vMotion in a vSphere environment. A migration is run to test the configuration, but fails. What could the administrator do to resolve the issue?

A. Ensure the VMkernel port group is configured for Management Traffic.

B. Enable VMkernel port group for the vSphere cluster.

C. Ensure the vMotion enabled adaptors configured for the same subnet.

D. Use a vDS instead of a standard switch.

Correct Answer: C

**QUESTION 34**

Which three files are valid virtual machine files that might be identified when examining a folder that contains a virtual machine template on a VMFS datastore? (Choose three.)

A. RDM map file (-rdm.vmdk)

B. BIOS settings file (.bios)

C. Template file (.vmtx)

D. Lock file (.lck)

E. Suspended state file (.vmsn)

Correct Answer: ACE

**QUESTION 35**

A company is planning an upgrade from vSphere 4.x to vSphere 5. They currently have three dual CPU servers licensed for ESXi 4.1 Advanced

Each server has 256GB of RAM installed.

Their virtual machines are sized three ways.

Light. 1v CPU, 4GB RAM

Medium. 2v CPU, 8GB RAM

Heavy. 4 vCPU, 12GB RAM

The Production workload consists of.

20 Light servers

20 Medium servers

2 Heavy servers

The Development workload consists of.

10 Light servers

10 Medium servers

How will vSphere 5 licensing impact their upgrade? (Choose two.)

A. They will need to purchase additional ESXi licenses.

B. They will be able to reduce their power consumption.

C. They will be restricted from powering on additional virtual machines.

D. A license upgrade will be needed to add vCPUs to the Heavy servers.

Correct Answer: BC

**QUESTION 36**

A company wants to increase disk capacity for their vSphere environment Management mandates that:

1.

 vMotion must work in this environment.

2.

 The existing LAN infrastructure must be used.

Which storage option best meets the company objectives?

A. iSCSI

B. Fibre Channel

C. SATA

D. NFS

Correct Answer: D

## QUESTION 37

An administrator is enabling Network I/O Control (NIOC) on a vSphere Distributed Switch. Which types of network traffic can be prioritized with NIOC by default? (Choose three.)

A. FCP Traffic

B. NFS Traffic

C. Virtual Machine Traffic By Virtual Machine

D. iSCSI Traffic

E. vSphere Replication (VR) Traffic

Correct Answer: BDE

## QUESTION 38

Your manager has requested that you look for ways to ensure that your storage is utilized evenly. Which feature of vSphere 5 would help achieve this request?

A. sDRS

B. profile driven storage

C. VAAI

D. thin provisioning

Correct Answer: A

## QUESTION 39

Which two statements are true about VLANs and port groups defined on a vSphere Standard Switch? (Choose two.)

A. A VLAN can be accessed by the entire virtual switch or individual port groups.

B. Multiple port groups are restricted from accessing the same VLAN.

C. VLANs can be configured only on individual port groups.

D. Multiple VLANs can be accessed by virtual machines connected to one port group.

Correct Answer: AD

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**QUESTION 40**

Click the Exhibit button. ACME Logging Inc. has been using the vSphere Web Client to deploy templates to a five-node vSphere 5.x cluster. After deploying a new template, the resulting virtual machine is not able to connect to the Development network to which it was assigned. When deploying another template, the message in the exhibit is shown. Based on this information, what is the likely problem?
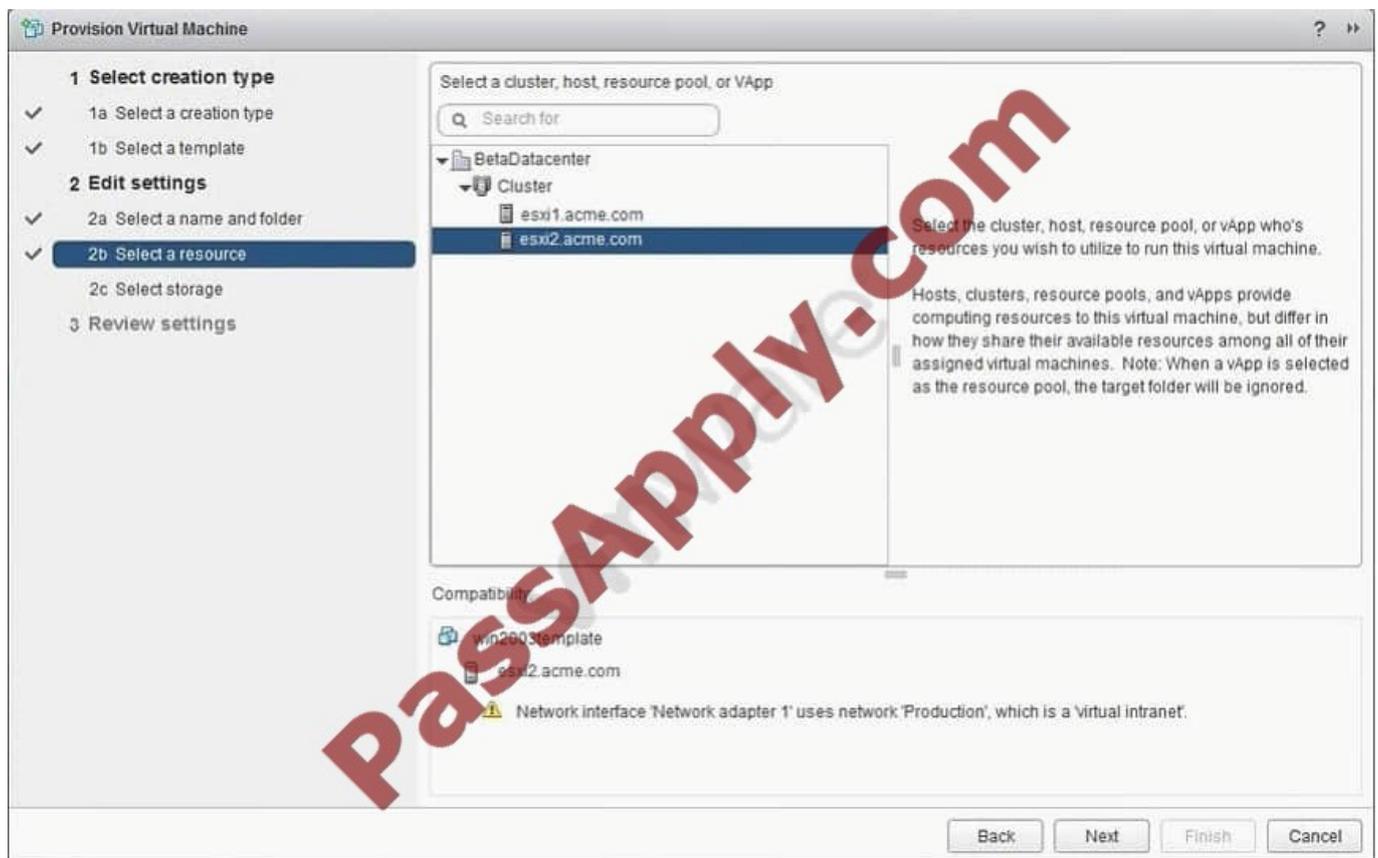


A. The interface on esxi2 that is assigned to the virtual switch is down.

B. The interface on esxi2 that is assigned to the virtual switch is configured incorrectly.

C. The Production virtual switch is internal only.

D. The Production virtual switch is a vDS.

Correct Answer: C

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