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vSphere 6 Foundations Exam

Score: 800/1000

Version:

Time Limit: 120 Minutes

Exam A (113 questions)

Question 1

An organization has an ESXi 6.x host that contains two resource pools. The host is being relocated to a DRS cluster.

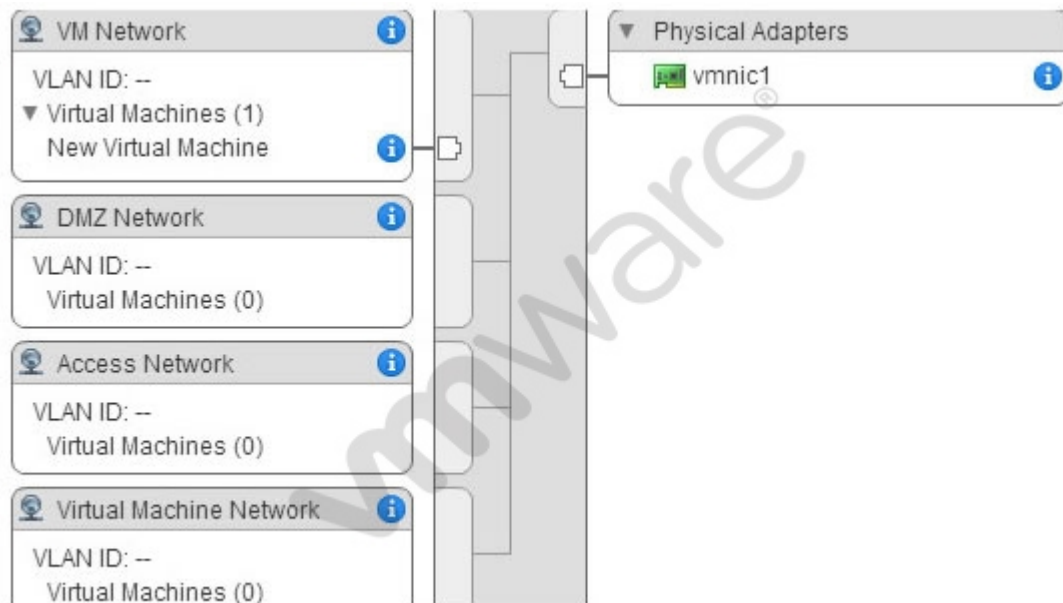


What two actions can be taken to integrate the host into the cluster, and what would happen to the existing ESXi resource pool hierarchy as a result? (Choose two.)

- ☐ Place all of the host's virtual machines into the DRS cluster root resource pool. The resource pools present on the host will be deleted.
- ☐ Create a resource pool for the ESXi host's virtual machines and resource pools. The resource pools present on the host will be deleted.
- ☐ Place all of the host's virtual machines into the DRS cluster root resource pool. The resource pools present on the host will be preserved.
- ☐ Create a resource pool for the ESXi host's virtual machines and resource pools. The resource pools present on the host will be preserved.

Question 2

Refer to the Exhibit.



A vSphere 6.x Standard Switch is configured with 4 virtual machine portgroups, as shown in the exhibit.

Which portgroup would be utilized by default when creating a new virtual machine?

- ☐ Access Network
- ☐ DMZ Network
- ☐ VM Network
- ☐ Virtual Machine Network

Question 3

Which load balancing policy, previously limited to vSphere Distributed Switches, is now available on vSphere Standard Switches with vSphere 6.x?

- ☐ Route based on physical NIC workload
- ☐ Route based on IP Hash
- ☐ Route based on the originating virtual port
- ☐ Route based on Source MAC Hash

Question 4

When is it possible to place a VMFS5 datastore in maintenance mode?

- ☐ When it is a member of a Storage DRS cluster
- ☐ When it is a member of Virtual SAN cluster
- ☐ When it is a member of a multi-extent datastore
- ☐ When it is a member of a Virtual Volume

Question 5

What information is required as part of an interactive ESXi 6.x installation?

- ☐ Keyboard layout
- ☐ IP Address
- ☐ Root password
- ☐ DNS information

Question 6

An administrator is performing an interactive installation of ESXi 6.x.

◆

Which three options are available for installation? (Choose three.)

- ☐ DVD
- ☐ USB
- ☐ PXE
- ☐ Scripted
- ☐ Auto Deploy

Question 7

An administrator is attempting to restore a number of files in a directory within the Operating System of a virtual machine.

◆◆

How can the administrator restore the files from a previous backup?

- ☐ Use the File Level Restore option from the selected backup of the virtual machine in the vSphere Web Client.
- ☐ Connect to the File Level Restore tool from a web browser in the virtual machine.
- ☐ Connect to the File Level Restore tool from the VMware Data Protection appliance.
- ☐ Use the File Level Restore option from the selected backup of the virtual machine in the vSphere Client.

Question 8

An organization has configured Distributed Power Management (DPM) on a vSphere 6.x cluster. The organization wants to be alerted when an ESXi host has been powered down by DPM.

◆◆

Which two options represent the type and name of the alarm that would accomplish this? (Choose two.)

- ☐ DrsEnteringStandbyModeEvent
- ☐ DrsEnteredStandbyModeEvent
- ☐ Event-based
- ☐ Condition-based

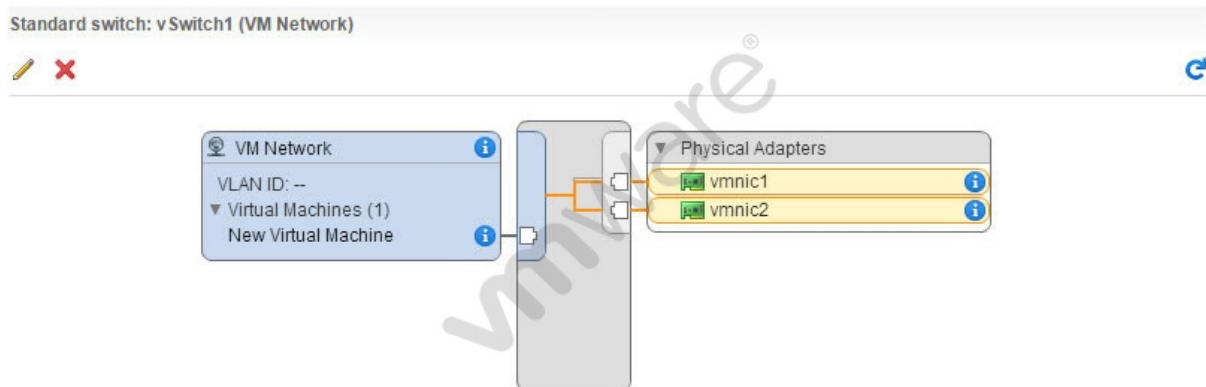
Question 9

What◆is required when changing a virtual machine name using◆the◆vSphere◆Web Client?

- ☐ Verify connectivity to the ESXi host◆where the virtual machine is◆running and◆its inventory list is accessible.
- ☐ Verify in which datastore the◆virtual machine resides and that you have access and its inventory list is accessible.
- ☐ Verify that◆virtual machine files are stored in the same datastore and can be accessed in the datastore browser list.
- ☐ Verify the◆virtual machine is not running in Fault Tolerant mode and that it is not in◆a Distributed Resource Scheduler◆cluster.

Question 10

Refer to the Exhibit.



An administrator is viewing network connectivity for a new virtual machine, as shown in the Exhibit.

Based on the Exhibit, what will occur with the network traffic of this virtual machine when communicating externally from vSwitch1?

- ☐ The virtual machine will communicate on both uplinks
- ☐ The virtual machine will only communicate on vmnic1
- ☐ The virtual machine will only communicate on vmnic2
- ☐ The virtual machine will fail to communicate externally

Question 11

An administrator has a virtual machine that requires four times the compute resources than other virtual machines on the same ESXi 6.x host.

◆

How should the administrator configure the virtual machine settings, in order to be prepared for any resource contention?

- ☐ Set the shares of the priority virtual machine to High and the rest to Low.
- ☐ Set the shares of the priority virtual machine to High.
- ☐ Set the shares of the priority virtual machine to High and the rest to Normal.
- ☐ Set the shares of the priority virtual machine to Normal and the rest to Low.

Question 12

Which two Fibre Channel zoning options are supported with vSphere 6.x? (Choose two.)

- ☐ Single-Initiator
- ☐ Single-Initiator-Single-Target
- ☐ Multiple-Initiators-Single-Target
- ☐ Multiple-Initiators-Multiple-Targets

Question 13

Which three are requirements when using vMotion to move a virtual machine across vCenter Server systems? (Choose three.)

- ☐ Both vCenter Servers must be using Enhanced Linked Mode.
- ☐ Both vCenter Servers must be in the same Single Sign-On Domain.
- ☐ Time must be synchronized.
- ☐ Duplicate VM MAC addresses must be configured.
- ☐ Both vCenter Servers must have High Availability enabled on source and destination clusters.

Question 14

Which two options would allow a database administrator, with no access to the vSphere infrastructure, to connect to a virtual machine? (Choose two.)

- ☐ Use the Virtual Machine Remote Console (VMRC).
- ☐ Use Remote Desktop Protocol (RDP) to connect.
- ☐ Ask the administrator to grant permission to access the console through vCenter Server.
- ☐ Ask the administrator to grant permission to access with the Horizon View Direct Connect Client.

Question 15

Why are some virtual machines orphaned after rebooting a High Availability (HA) enabled host?

- ☐ The Orphaned virtual machines have HA restart disabled.
- ☐ The Orphaned virtual machines moved recently and the change did not persist.
- ☐ The host is attached to failed storage.
- ☐ The host just came out of maintenance mode.

Question 16

An administrator is attempting to remove an ESXi 6.x host from a vSphere Distributed Switch (vDS). When the administrator attempts to remove the host, the following error is observed:

◆◆

The resource '16' is still in use. ◆

◆◆

What three steps are needed to successfully remove the host from the switch? (Choose three.)

- ☐ Select Manage Ports on the vDS for the host.
- ☐ Locate all ports currently in use on the vDS for the host.
- ☐ Migrate or delete any vmkernel or virtual machine adapters associated with the switch.
- ☐ Remove all network cards from the switch before trying to remove the host.
- ☐ Create a standard switch for everything to be automatically be migrated to.

Question 17

Which three conditions would prevent Storage I/O Control from being enabled on a group of datastores? (Choose three.)

- ☐ The datastores planned for the solution are used by different vSphere clusters.
- ☐ A datastore planned for the solution is configured as a Raw Device Mapping file.
- ☐ A datastore planned for the solution has three extents.
- ☐ A datastore planned for the solution is configured as NFS.
- ☐ The organization has an Enterprise license.

Question 18

A virtual machine template is accidentally removed from the vCenter Server Inventory. ◆

◆◆

Which method would◆be used to recover the template◆back into the environment?◆

- ☐ Use the datastore browser to locate the template, then right click and add the .vmtx file to inventory.
- ☐ Use the datastore browser to locate the template, then right click and add the .vmx file to inventory.
- ☐ Using the Managed Object Browser and adding the template from the ManagedObjectReference:GuestFileManager object.
- ☐ Using the Managed Object Browser and adding the template from the◆ManagedObjectReference:VirtualDiskManager object.

Question 19

Which two events happen when Distributed Resource Scheduler (DRS) is disabled? (Choose two.)

- ☐ The cluster's resource pool hierarchy and affinity rules are re-established when DRS is turned back on.
- ☐ The cluster's resource pool hierarchy and affinity rules are not re-established when DRS is turned back on.
- ☐ The cluster's resource pools are removed from the cluster.
- ☐ The cluster's resource pools are removed from the cluster and assigned to the hosts.

Question 20

An administrator needs to deploy five virtual machines to a Virtual SAN-based datastore. Each virtual machine has a 50GB virtual disk and 16GB of memory. The remaining space on the datastore is 300GB. The administrator is unable to power on all five virtual machines concurrently.

Which two statements will enable the administrator to power on all five virtual machines concurrently? (Choose two.)

- ☐ Create an 8GB memory limit for each virtual machine.
- ☐ Use per-virtual machine swap for the five virtual machines.
- ☐ Create an 8 GB memory reservation for each virtual machine.
- ☐ Use host-local swap for the five virtual machines.

Question 21

When you add an ESXi 6.x host to a new Cluster, which vSphere object owns the CPU and Memory resources of the hosts?

- ☐ vCenter Server
- ☐ Datacenter
- ☐ Cluster
- ☐ Host

Question 22

An administrator is trying to determine why a newly-created ESXi host cannot see the configured iSCSI LUNs. The administrator suspects that a colleague entered the iSCSI Qualified Name (IQN) incorrectly in the iSCSI software initiator settings. The IQN entered is:
iqn.iscsi.vmware.com.2015-06:lun01

Which two statements explain why the IQN address is incorrect? (Choose two.)

- ☐ The domain name is written correctly.
- ☐ The date format is written incorrectly.
- ☐ The LUN identifier is in the wrong location.
- ☐ The date is in the wrong location.

Question 23

An administrator has just completed performing an interactive installation of ESXi 6.x and is booting the host.

How is the network initially configured?

- ☐ The network is configured by Automatic Private IP Addressing (APIPA).
- ☐ The network is configured based on the settings detected in DNS.
- ☐ The network is configured with the address as specified in the installer.
- ☐ The network is automatically configured by DHCP.

Question 24

What are two benefits of using NFS 4.1 with vSphere 6.x as compared to NFS 3? (Choose two.)

- ☐ NFS 4.1 supports Kerberos Authentication
- ☐ NFS 4.1 supports multipathing
- ☐ NFS 4.1 supports IPv6
- ☐ NFS 4.1 supports hardware acceleration

Question 25

A vSphere administrator needs to backup a virtual machine that has a Microsoft SQL Server Database installed.



Which solution allows for an application quiesce to occur during backup?

- ☐ VMware vCenter Converter
- ☐ VMware vCenter Site Recovery Manager
- ☐ VMware vSphere Replication
- ☐ VMware vSphere Data Protection

Question 26

What is a requirement when enabling a Virtual SAN cluster in an existing High Availability (HA) and Distributed Resource Scheduler (DRS) Cluster?

- ☐ Disable DRS and HA before enabling Virtual SAN
- ☐ Enable DRS before enabling Virtual SAN
- ☐ Disable HA before enabling Virtual SAN
- ☐ Enable Storage DRS before enabling Virtual SAN

Question 27

Which two NFS Protocol versions does vSphere 6 support? (Choose two.)

- ☐ Version 3
- ☐ Version 3.1
- ☐ Version 4
- ☐ Version 4.1

Question 28

An administrator is performing a scripted installation of ESXi 6.x.

In which three locations does the script need to be? (Choose three.)

- ☐ PXE Server
- ☐ HTTPS
- ☐ FTP
- ☐ NFS
- ☐ VVOLs Datastore

Question 29

vSphere Update Manager allows which two virtual machine attributes to be upgraded? (Choose two.)

- ☐ Virtual machine firewall policies for NSX.
- ☐ Software Packages in the virtual machine.
- ☐ Virtual machine Hardware Version.
- ☐ VMware Tools Upgrade.

Question 30

A user is trying to retrieve objects from a SharePoint server and finds the request is taking an excessive amount of time. An administrator tries to isolate the issue and notes the following:
Application performance is poor when compared to virtual machines on other hosts.
Performance improves when the virtual machine is moved to another host.
The virtual machine encounters higher than expected CPU %Ready times.

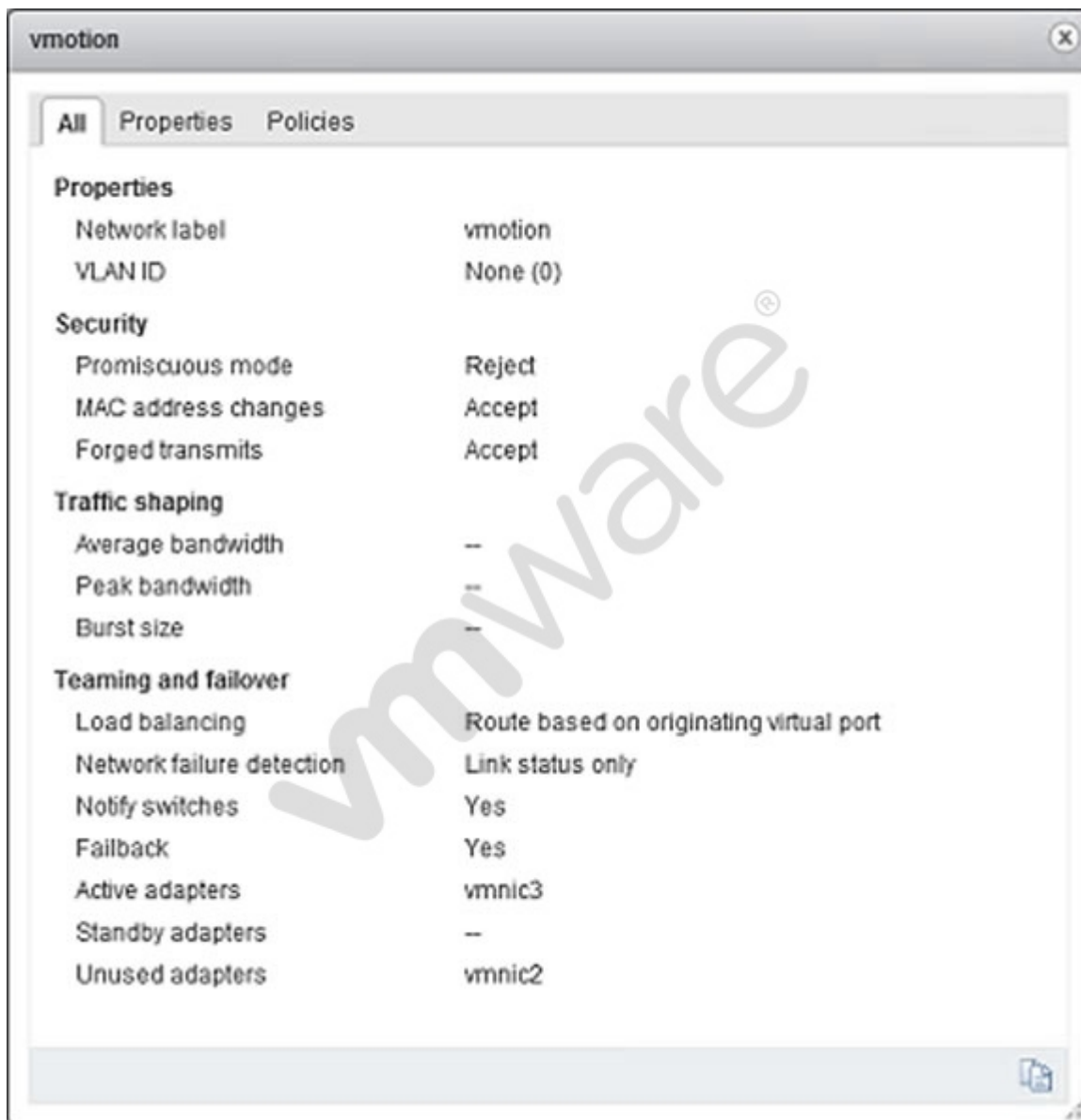
◆

What conclusion can be reached regarding the performance issues for this virtual machine?

- ☐ Host Power Management is directly impacting virtual machine performance.
- ☐ The virtual machine has a large number of snapshots.
- ☐ The Path Selection Policy for the storage device is set differently on the affected host.
- ☐ Network I/O control is configured for the portgroup.

Question 31

Refer to the Exhibit.



An administrator has been given requirements to configure vMotion for a new virtual machine. The configuration should:

Provide Network Redundancy

Use VLAN 550

Be secured against anyone trying to spoof communication

◆

The vSwitch1 configuration is shown in the Exhibit.

Which three changes should be made to meet the stated requirements? (Choose three.)

- ☐ The VLAN ID must be set appropriately.
- ☐ The default values for MAC Address Changes and Forged Transmits must be altered.
- ☐ The teaming and failover adapters must be set appropriately.
- ☐ The Traffic Shaping configuration must be altered.

- ☐ The Load Balancing Policy must be set appropriately.

Question 32

Which two Virtual SAN related actions might start resynchronization of virtual machine objects? (Choose two.)

- ☐ Editing a virtual machine storage policy to increase the number of replicas.
- ☐ Editing a virtual machine storage policy to reduce the number of replicas.
- ☐ Editing a virtual machine storage policy to increase the number of disk stripes.
- ☐ Editing a virtual machine storage policy to reduce the number of disk stripes.

Question 33

Refer to the Exhibit.

Adapter Details			
Properties	Devices	Paths	
Enable Disable			
Runtime Name	Target	LUN	Status
vmhba2:C0:T3:L0	50:06:01:60:c7:20:6a:a4 50:06:0...	0	◆ Active (I/O)
vmhba2:C0:T2:L0	50:06:01:60:c7:20:6a:a4 50:06:0...	0	◆ Active (I/O)
vmhba2:C0:T1:L0	50:06:01:60:c7:20:6a:a4 50:06:0...	0	◇ Disabled
vmhba2:C0:T0:L0	50:06:01:60:c7:20:6a:a4 50:06:0...	0	◆ Active

A storage administrator has reported that full utilization of all bandwidth from an ESXi 6.x host is not being seen. In troubleshooting the issue, the Adapter details are shown in the Exhibit.

Based on the exhibit, what is cause of the issue?

- ☐ The array is not setup to use the correct multipathing policy.
- ☐ There are no virtual machines on the ESXi host.
- ☐ Not all links are used because a path is disabled.
- ☐ Another path needs to be configured.

Question 34

A vApp named Sales has a Memory Limit of 32 GB and a CPU Limit of 12,000 MHz. There are three virtual machines within the vApp:

Sales-DB -- Has a memory reservation of 20 GB.

Sales-DC -- Has a memory reservation of 8 GB.

Sales-Web -- Has a memory reservation of 8 GB.



Which statement is correct?

- ☐ All three virtual machines can power on, but will have memory contention.
- ☐ All three virtual machines can power on without memory contention.
- ☐ Only two of the three virtual machines can power on.
- ☐ Only one of the virtual machines can power on.

Question 35

What condition would prevent an administrator from creating a new VMFS3 datastore on an ESXi 6.x host using the vSphere Web Client?

- ☐ A VMFS3 datastore cannot be created on an ESXi 6.x host.
- ☐ The VMFS3 kernel module is not loaded.
- ☐ A VMFS3 datastore cannot be mounted on an ESXi 6.x host.
- ☐ VMFS3 datastores are not compatible with virtual machines created on an ESXi 6.x host.

Question 36

An administrator is attempting to enable Storage I/O Control on a datastore, but it is failing.



What is the likely reason for this failure?

- ☐ The host is connected to a datastore is running on ESX 4.0.
- ☐ The host is connected to a Fibre Channel storage array.
- ☐ The datastore has multiple extents.
- ☐ The datastore is managed by a single vCenter Server.

Question 37

A company has decided to implement Virtual SAN within their vSphere 6.x environment. The Virtual SAN cluster will be composed of three ESXi 6.x hosts that are on the Virtual SAN Ready Node list.

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Each ESXi host includes:

Two SAS Controllers that support Passthrough Mode

Four Solid State Drives (SSDs) 1TB in size each

20 SAS Magnetic Disks (MDs) 1TB in size each

The SSDs and MDs are evenly split between the two SAS controllers

◆

The company will pilot a Virtual SAN cluster utilizing VMware best practices while maximizing storage capacity. The Virtual SAN cluster will use Manual Mode.

Which two Disk Group configurations would meet the stated configuration requirements? (Choose two.)

- ☐ 4 disk groups with 1 SSD and 5 MDs each
- ☐ 2 disk groups with 1 SSD and 7 MDs each
- ☐ 2 disk groups with 2 SSDs and 7 MDs each
- ☐ 2 disk groups with 1 SSD and 10 MDs each

Question 38

An administrator enables vSphere High Availability (HA) on an existing cluster with a large number of hosts and virtual machines. The administrator notices that the setup of vSphere HA on some of the hosts is failing.

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What step, if taken, might resolve this issue?

- ☐ Increase the value of the `config.vpxd.das.electionWaitTimeSec` setting
- ☐ Set the value of `vpxd.das.aamMemoryLimit` to 256.
- ☐ Set the value of the `das.useDefaultIsolationAddress` setting to False.
- ☐ Increase the value of the `das.iostatsinterval` setting.

Question 39

An administrator needs to verify that vMotion operations can be performed in a vSphere data center.

What round trip time (RTT) latency is the maximum value that will allow vMotion operations to succeed?

- ☐ 50ms RTT
- ☐ 100ms RTT
- ☐ 150ms RTT
- ☐ 200ms RTT

Question 40

Refer to the Exhibit.

Physical adapters

Device	Actual Speed	Configured Speed	Switch	MAC Address	Observed IP ranges	Wake on LAN
Intel Corporation 82545EM Gigabit Ethernet Controller (Copper)						
vmnic0	1000 Mb	Auto negotiate	vSwitch0	00:50:56:03:0a:51	10.0.0.8-10.0.0.11	No
vmnic1	1000 Mb	Auto negotiate	vSwitch0	00:50:56:03:3b:61	10.0.0.8-10.0.0.11	No
vmnic2	Down	Auto negotiate	vSwitch1	00:50:56:03:44:ed	10.0.0.8-10.0.0.11	No
vmnic3	1000 Mb	Auto negotiate	vSwitch1	00:50:56:03:0e:0f	10.0.0.8-10.0.0.11	No
vmnic4	1000 Mb	Auto negotiate	—	00:50:56:03:17:a3	10.0.0.8-10.0.0.11	No

Physical network adapter: vmnic0

All Properties CDP LLDP	
Adapter	Intel Corporation 82545EM Gigabit Ethernet Controller (Copper)
Name	vmnic0
Location	PCI 0000:02:00.0
Driver	e1000

An administrator is configuring an ESXi 6.x host to use multiple NICs to resolve a management network redundancy error. After configuring a second NIC, the server is not able to communicate when the primary connection is taken down. The administrator analyzes the Exhibit shown here.

Based on the exhibit, what is the likely cause of the issue?

- ☐ vmnic4 is not attached to a vSwitch.
- ☐ vmnic2 is not connected to a physical switch.
- ☐ E1000 is the incorrect NIC Driver for this card.
- ☐ There is a MAC address conflict on the network.

Question 41

An administrator is cloning and configuring five new web server virtual machines.

◆◆

What would be the benefit of configuring resource shares for the new VMs?

- ☐ To prioritize access to a resource during contention.
- ☐ To guarantee access to a resource during contention.
- ☐ To prioritize access to a resource before contention occurs.
- ☐ To guarantee access to a resource before contention occurs.

Question 42

Which three connection types are available when configuring a vSwitch in the vSphere Web Client? (Choose three.)

- ☐ VMkernel Network Adapter
- ☐ Physical Network Adapter
- ☐ Virtual Machine Port Group for a Standard Switch
- ☐ vMotion Network Adapter
- ☐ vSAN Network Adapter

Question 43

An administrator is unable to remove an ESXi 6.x host from a vSphere Distributed Switch

What are two likely reasons for this issue? (Choose two.)

- ☐ Vmkernel interfaces on the switch are still in use.
- ☐ VM Network port group adapters are connected to different switch.
- ☐ Physical NICs are migrated to different switch.
- ☐ VM Network adapters are connected to this switch.

Question 44

What may be a cause for failure to unmount an NFS datastore?

- ☐ It has active snapshot files.
- ☐ It is being used for High Availability (HA) heartbeat.
- ☐ It is part of a Cluster.
- ☐ It is managed by Distributed Resource Scheduler (DRS).

Question 45

Which three operations occur during a cold migration of a virtual machine? (Choose three.)

- ☐ The virtual machine disks are moved if the datastore is being changed.
- ☐ The virtual machine is registered with the destination server
- ☐ The source virtual machine is removed from the old hosts.
- ☐ The virtual machine hardware is upgraded.
- ☐ The virtual machine files are quiesced prior to the migration.

Question 46

What are three valid disk configurations for the vSphere Data Protection 6.x Appliance? (Choose three.)

- ☐ 500GB
- ☐ 1TB
- ☐ 1.5TB
- ☐ 2TB
- ☐ 4TB

Question 47

Which two parameters are required when adding an iSCSI target to an iSCSI Software Adapter using Dynamic Discovery? (Choose two.)

- ☐ The iSCSI device's IP Address or Fully Qualified Domain Name
- ☐ The Port Number
- ☐ The iSCSI device's iSCSI Qualified Name (IQN)
- ☐ The Default Gateway IP Address

Question 48

An administrator is moving a virtual machine into a resource pool. The VM and resource pool are configured as shown:

VM configuration:

2GHz CPU reservation

1GB Memory limit

◆

Resource Pool configuration:

6GHz CPU reservation

1GB Memory reservation

No limit to memory

◆

What happens to the virtual machine's resource settings when it is moved into the pool?

- ☐ The VM inherits the resource settings of the resource pool if expandable reservations is enabled.
- ☐ The VM's reservations and limits are ignored and removed.
- ☐ The VM keeps the 2GHz CPU reservation but receives the 1GB memory reservation.
- ☐ The VM keeps the 2GHz CPU reservation and the 1GB Memory limit.

Question 49

Which three steps must be taken to use vSphere Update Manager 6.x to upgrade an ESXi 5.5 host to vSphere 6.x? (Choose three.)

- ☐ Download an ESXi Image.
- ☐ Configure the vSphere Update Manager Download Service.
- ☐ Create a baseline and attach it to the ESXi Host.
- ☐ Scan the vCenter Content Library for the ESXi Image.
- ☐ Remediate the ESXi Host.

Question 50

An administrator must determine an appropriate backup solution, given these conditions:

50 of the virtual machines are in a resource pool named Finance.

50 of the virtual machines are in a resource pool named QA.

◆◆

Which solution allows an administrator the ability to backup 100 virtual machines? ◆

- ☐ Use Snapshot Manager on the vCenter Server to backup the virtual machines.
- ☐ Use the VMware Consolidated Backup (vcb) tool on the ESXi Host to backup the virtual machines.
- ☐ Use the VMware Data Recovery (VDR) Appliance on the vCenter Server to backup the virtual machines.
- ☐ Use the VMware Data Protection (VDP) Appliance on one of the ESXi Hosts to backup the virtual machines.

Question 51

Which two actions are prerequisites to adding ESXi 6.x hosts to a vSphere Distributed Switch? (Choose two.)

- ☐ Verify that there is at least one Distributed Port Group on the Distributed Switch.
- ☐ Verify that the Distributed Port Group have active uplinks configured in its teaming and failover policy.
- ☐ Verify that the Distributed Switch has been configured with a Network Profile.
- ☐ Verify that Network I/O control for Management Traffic is configured for the highest share value.

Question 52

A vApp is running out of compute resources when overall activity is high within the resource pool. At other times, everything is fine.

What should be done to resolve this issue?

- ☐ Increase the size of the resource pool Shares.
- ☐ Set the vApp's CPU and Memory Reservation Type to Expandable.
- ☐ Set the vApp's CPU and Memory Limit to Unlimited.
- ☐ Create a new resource pool with the existing hardware configuration.

Question 53

An administrator receives a report that no real time statistics are available for a virtual machine in the vCenter Server inventory.

Which two statements indicate likely causes of the problem? (Choose two.)

- ☐ The virtual machine is powered off.
- ☐ The host containing the virtual machine is disconnected from vCenter Server.
- ☐ There is insufficient real time data to display the information.
- ☐ The vCenter Server service is not running.

Question 54

In order for a company to meet regulatory requirements, all ESXi 6.x Hosts must be configured to direct logs to a syslog server.

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What are two ways ESXi hosts can be configured for this action? (Choose two)

- ☐ Use the esxcli system syslog command.
- ☐ Edit them in the ESXi host Advanced System Settings.
- ☐ From the Syslog collector user interface of the Web Client.
- ☐ Syslog logging is not available for ESXi Hosts.

Question 55

Users of an application are reporting performance issues. ♦The following performance values are observed in the vSphere Web Client:

Host CPU utilization is 90%

Virtual Machine♦memory♦utilization is consistently greater than 90%

CPU Ready values are higher than 20%

♦

♦What could be the cause of the application performance issue?

- ☐ The host is lacking the CPU resources required to meet the demand.
- ☐ The host is lacking the memory resources required to meet the demand.
- ☐ The virtual machine is lacking the CPU resources required to meet the demand.
- ☐ The virtual machine is lacking the memory resources required to meet the demand.

Question 56

From♦which two locations♦in the inventory hierarchy can you deploy a virtual machine using a♦template? (Choose two.)

- ☐ Directly from the template.
- ☐ From a compute resource.
- ☐ From an existing virtual machine.
- ☐ From a Datastore.

Question 57

Which two statements are true about VMFS5 datastores on ESXi 6.x? (Choose two.)

- ☐ Virtual Disk (VMDK) size can be larger than 2TB.
- ☐ Datastore extent size can be larger than 2TB.
- ☐ Only Physical Mode Raw Device Map (Passthrough-RDM) can be larger than 2TB.
- ☐ 2MB block size is required to support larger than 2TB file size.

Question 58

An administrator is troubleshooting basic♦network♦connectivity issues.

♦♦

Which two♦scenarios♦are potential issues that this administrator might face? (Choose two.)

- ☐ The vSwitch♦is not♦attached to the correct physical network.
- ☐ The portgroup is not configured to use correct VLAN.
- ☐ Traffic shaping is configured incorrectly.
- ☐ Jumbo frames is configured incorrectly.

Question 59

Which two SMTP Notification Event Details are specific to alarms triggered by events? (Choose two.)

- ☐ User Name
- ☐ Summary
- ☐ Old Status
- ☐ Target

Question 60

Which two High Availability (HA) Cluster admission control policies can help avoid resource fragmentation? (Choose two.)

- ☐ Define failover capacity by static number of hosts
- ☐ Define failover capacity by reserving a percentage of the cluster resources
- ☐ Use dedicated failover hosts
- ☐ Use Virtual Machine Monitoring

Question 61

An administrator is attempting to migrate a large Hadoop virtual machine using vMotion. The administrator notices a delay when the machine is quiesced. The Hadoop virtual machine is processing many transactions a second to an in-memory database.

◆◆

Which two actions would help reduce the amount of time needed to perform a vMotion on this virtual machine? (Choose two.)

- ☐ Use multiple NICs for the vMotion vmkernel port.
- ☐ Use a 10Gbps Network card for the vMotion vmkernel port.
- ☐ Add an additional management network to help transmit the data quicker.
- ☐ Disable Fault Tolerance before performing the vMotion.

Question 62

When attempting to power on a Virtual Machine you observe the following error:

◆◆

Cannot open the disk '/vmfs/volumes/volume/vm/vm-000002.vmdk' or one of the snapshot disks it depends on.

◆◆

Which three actions will be the best solutions to address this problem? (Choose three.)

- ☐ Verify that the virtual machine's disk files are present.
- ☐ Investigate the host and virtual machine log files.
- ☐ Verify the vmdk descriptor files and if required, recreate them.
- ☐ Delete the disk file preventing the power on operation.
- ☐ Migrate or register the virtual machine to a different host.

Question 63

Which two statements are true about deploying and using vSphere Replication? (Choose two.)

- ☐ ESXi hosts managed by a single vCenter Server instance require a connection between the two vSphere Replication appliances.
- ☐ Sites managed by different vCenter Server instances require a connection between the two vSphere Replication appliances.
- ☐ Sites managed by different vCenter Server instances require the use of Site Recovery Manager and a connection between the two vSphere Replication appliances.
- ☐ ESXi hosts managed by a single vCenter Server instance require a single vSphere Replication appliance.

Question 64

When modifying a vApp, which two vSphere entities can be added? (Choose two.)

- ☐ A resource pool
- ☐ A network pool
- ☐ A vApp
- ☐ A folder

Question 65

A High Availability (HA) cluster is configured to respond to a given number of host failures. The cluster contains virtual machines configured with these settings:

VM1 has a 1GHz CPU reservation and no Memory reservation

VM2 has a 2GHz CPU reservation and no Memory reservation

VM3 has no CPU reservation and no Memory reservation

Given this information, what is the correct slot size for the cluster?

- ☐ The CPU Reservation should be set to 32MHz and the memory reservation should be set to 32MB plus memory overhead.
- ☐ The CPU reservation should be set to 1 GHz and the memory reservation should be set to 0MB plus memory overhead.
- ☐ The CPU reservation should be set to 2 GHz, and the memory reservation should be set to 0MB plus the virtual machine memory overhead.
- ☐ The CPU reservation should be set to 2 GHz, and the memory reservation should be set to 32MB, plus the virtual machine memory overhead.

Question 66

An administrator attempts to migrate a suspended virtual machine to a newly deployed vSphere 6.x cluster. The compatibility check fails.

What condition could cause this behavior?

- ☐ The new vSphere 6.x cluster is running Intel CPUs instead of AMD CPUs.
- ☐ A suspended virtual machine cannot be migrated.
- ☐ The hardware virtualization feature of the CPU is not enabled on the new hosts.
- ☐ A vSphere Distributed Switch is required to migrate a suspended virtual machine.

Question 67

Which two storage controller configurations can be used with Virtual SAN? (Choose two.)

- ☐ SAS controllers in Passthrough mode
- ☐ SAS controllers in RAID0 mode
- ☐ SAS controllers in RAID1 mode
- ☐ SAS controllers in RAID10 mode

Question 68

You are editing the management network configuration of an ESXi 6.x Host from the vSphere Web Client. You mistakenly put the incorrect VLAN in place for the management network.

◆◆

What action do you need to take to correct this?

- ☐ You need to manually edit the configuration on the host with command line utilities.
- ☐ No action is required. By default ESXi rolls back configuration changes that disconnect the host.
- ☐ The ESXi host system configuration will need to be restored to the factory configuration to fix the issue.
- ☐ The change can be reverted in the vSphere Web Client by simply editing the switch again.

Question 69

You are creating a virtual machine in the Web Client using the New Virtual Machine wizard

◆◆

Which two steps are required? (Choose two.)

- ☐ Select a valid name.
- ☐ Select a cluster for the compute resource.
- ☐ Select a network adapter.
- ☐ Select the virtual machine compatibility.

Question 70

Which two configurable options apply to both virtual machine CPU and memory allocation? (Choose two.)

- ☐ Reservation
- ☐ Shares
- ☐ Resource Pool
- ☐ Reserve All

Question 71

An organization has a number of virtual machines that would benefit from Fault Tolerance. These include: ♦

A ♦ single ♦ vCPU Apache ♦ Server

A ♦ dual ♦ vCPU vCenter Server

A ♦ quad ♦ vCPU SQL ♦ Server

An ♦ eight ♦ vCPU Hadoop Server

♦

Which two virtual machines can be configured to use VMware Fault Tolerance? (Choose two.)

- ☐ Apache Server
- ☐ vCenter Server
- ☐ SQL Server
- ☐ Hadoop Server

Question 72

Which scenario shows a ♦ reason for VMware Tools ♦ failing to install?

- ☐ Virtual machine has a CD-ROM configured.
- ☐ Guest OS Antivirus is blocking the VMware Tools installation.
- ☐ Guest OS has 64-bit ldd (list dynamic dependencies) utility installed.
- ☐ Virtual machine is powered on.

Question 73

An ♦ administrator is ♦ creating a new ♦ vSphere Distributed ♦ Switch that will be utilized with a specific vSphere Cluster. The cluster itself contains a mix of ESXi 5.x and 6.x ♦ Hosts

♦ ♦

Which ♦ Distributed ♦ Switch ♦ version ♦ should ♦ be ♦ created ♦ to ♦ support ♦ this ♦ configuration?

- ☐ Distributed Switch: 6.0.0
- ☐ Distributed Switch: 5.0.0
- ☐ Distributed Switch: 5.1.0
- ☐ Distributed Switch: 5.5.0

Question 74

An administrator suspects the virtual machines on the host are trying to send more throughput to the storage system than the configuration on the host supports.

What data counter would best identify the suspected problem?

- ☐ kernelLatency
- ☐ networkRate
- ☐ deviceLatency
- ☐ queueLatency

Question 75

An application running in a virtual machine is experiencing performance issues. When utilizing performance monitoring utilities, it is noted that the CPU Utilization of the application is at 100%.
◆◆

Which two scenarios are probable causes of the CPU contention for the application? (Choose two.)

- ☐ There is a network I/O constraint.
- ☐ There is a storage I/O constraint.
- ☐ There is insufficient disk space assigned to the virtual machine.
- ☐ The application is not virtualization aware.

Question 76

An administrator creates a DRS cluster of eight ESXi 6.x hosts. There are 10 virtual machines balanced across the hosts. An attempt to place the first host into maintenance mode fails.
◆

What are two reasons that the host failed to enter maintenance mode? (Choose two.)

- ☐ The DRS cluster Automation Level is set to Partially Automated mode.
- ☐ One of the virtual machines on the ESXi Host entering maintenance mode is configured with a DRS Host affinity rule Should run on hosts in group.
- ☐ One of the virtual machines on the ESXi Host entering maintenance mode is configured with a DRS Host affinity rule Must run on hosts in group.
- ☐ One of the virtual machines on the ESXi Host entering maintenance mode is configured with an individual Automation Level set to Partially Automated.

Question 77

An attempt to enable vSphere Fault Tolerance for a powered-on virtual machine fails.

Which two scenarios would result in this failure? (Choose two.)

- ☐ The virtual machine has three vCPUs configured.
- ☐ The host on which the virtual machine is running has insufficient memory resources.
- ☐ The virtual machine has insufficient resources to accommodate full reservation plus the overhead memory.
- ☐ VMware High Availability is enabled on the cluster of which this host is a member.

Question 78

An administrator has configured an alarm to be notified when a virtual machine meets either of these conditions:

High virtual CPU

High active memory consumption.

The alarm is only triggering when both of the conditions are met.

What can be done to correct the alarm behavior?

- ☐ Edit the alarm and select Trigger if ANY of the following conditions are satisfied.
- ☐ Edit the alarm and select Trigger if ALL of the following conditions are satisfied.
- ☐ Create two separate alarms, one for CPU and one for memory and link them together with ESXCLI.
- ☐ Delete the existing alarm and create a new event based alarm.

Question 79

A virtual machine has been renamed and an administrator is unable to find files with the new virtual machine name in the datastore.

What is the reason for this?

- ☐ The names of the files on the datastore do not change.
- ☐ The names of the files on the datastore have been corrupted.
- ☐ The virtual machine needs to be re-added to the inventory.
- ☐ The Distributed Resource Scheduler moved the virtual machine to another host.

Question 80

An administrator is migrating a virtual machine from a Test cluster to a Production cluster. The two environments do not have any shared storage.

What is the easiest way to accomplish this task?

- ☐ Perform a Storage vMotion.
- ☐ Perform a regular vMotion.
- ☐ Perform a Virtual to Virtual migration.
- ☐ Perform a backup and restore using VMware Data Protection.

Question 81

An administrator needs to configure an ODBC connection to the database for a vCenter Server install using the Windows built-in system account. What options must the administrator configure to accomplish the connection? (Choose two.)

- ☐ Create the new ODBC from the UserDSN tab.
- ☐ Select SQL Server authentication.
- ☐ Select Integrate Windows authentication.
- ☐ Create the new ODBC from the SystemDSN tab.

Question 82

During a new vSphere Distributed Switch configuration, where does the Maximum Transmission Unit (MTU) value get modified?

- ☐ Uplink Settings
- ☐ Switch Settings
- ☐ Portgroup Settings
- ☐ NIC Teaming Settings

Question 83

Which three statements are true regarding Fault Tolerance? (Choose three.)

- ☐ Applications need to be continuously available to users.
- ☐ Applications without native clustering capabilities can be protected.
- ☐ Custom clustering solutions are complicated to configure and maintain.
- ☐ Applications that have 16 vCPUs are supported.
- ☐ Prevents application crashes by analyzing the workload and correcting problems.

Question 84

An administrator needs to add an object to an existing vApp using the vSphere Web Client. How is this accomplished?

- ☐ Create an Object Inside the vApp.
- ☐ Add an Object to a vApp.
- ☐ Add an Object to the Datastore the vApp is located in.
- ☐ Move all Objects to a new Datastore folder.

Question 85

A vApp template recently added to a Content Library is not displayed.



Which two actions could correct this problem? (Choose two.)

- ☐ Manually synchronize the library
- ☐ Select the Download all library content immediately option
- ☐ Select the Sync subscribed library option◆
- ☐ Manually download the vApp template

Question 86

When attempting to access a virtual machine, an administrator is unable to login using the vSphere credentials. ◆



What two options are probable causes of the authentication failure? (Choose two.)

- ☐ The vSphere credentials have not been granted permissions.
- ☐ The vSphere credentials are granted read-only permissions.
- ☐ The vSphere credentials are granted no-access permissions.
- ☐ The vSphere credentials are not a member of the local administrator group.

Question 87

What is true regarding datastores on ESXi 6.x?

- ☐ NFS 4.1 datastore does not support Fault Tolerance (FT)
- ☐ Both VMFS3 and VMFS5 datastores can be◆created
- ☐ NFS datastore can be mounted using NFS 4.1 on one ESXi host and NFS 3.0 on another
- ☐ NFS 3.0 datastore does not support Fault Tolerance (FT)

Question 88

An administrator wants to deploy a vApp and dynamically assign IP addresses without a DHCP server on the network.



Which action would you take to accomplish this task?

- ☐ Enable IP pools.
- ☐ Configure a local DHCP server in the vApp.
- ☐ Enable NAT on the vApp router.
- ☐ Configure the guest OS for workgroup and WINS.

Question 89

An administrator is virtualizing a physical application server and adding it to an existing multi-tiered vApp. The application license is currently tied to the physical NIC's MAC address, so the administrator needs to ensure the license will function properly in the virtual machine.



Which two actions can the administrator take to satisfy this task? (Choose two.)

- ☐ Set the MAC address for the vNIC in the guest operating system.
- ☐ Install the physical server's NIC into the ESXi host.
- ☐ Configure the MAC address for the vNIC using the vSphere Web Client.
- ☐ Assign the physical server NIC's MAC address in the vSphere Distributed Switch.

Question 90

Which two networking connection types can be configured on a virtual switch? (Choose two.)

- ☐ Virtual machine portgroups
- ☐ VMkernel services (such as NFS, iSCSI, or vMotion) to the physical network
- ☐ Web services over the Management Network
- ☐ NFS and FCoE storage services

Question 91

An administrator has recently installed a new ESXi 6.x Host, and during the configuration notices sporadic network problems. To check whether the issue occurred sometime during the configuration, the administrator would like to reset the system.

How can this be accomplished in the shortest amount of time?

- ☐ Run the ESXi installer again and reinstall the host.
- ☐ Select the Reset System Configuration option from the vSphere Client when connected directly to the host.
- ☐ From the Direct Console User Interface, select Reset System Configuration.
- ☐ Use a host profile to reset the configuration to a default state.

Question 92

How many Link Aggregation Groups (LAGs) can be configured on a vSphere 6.x Distributed Switch?

- ☐ 64
- ☐ 96
- ☐ 128
- ☐ 256

Question 93

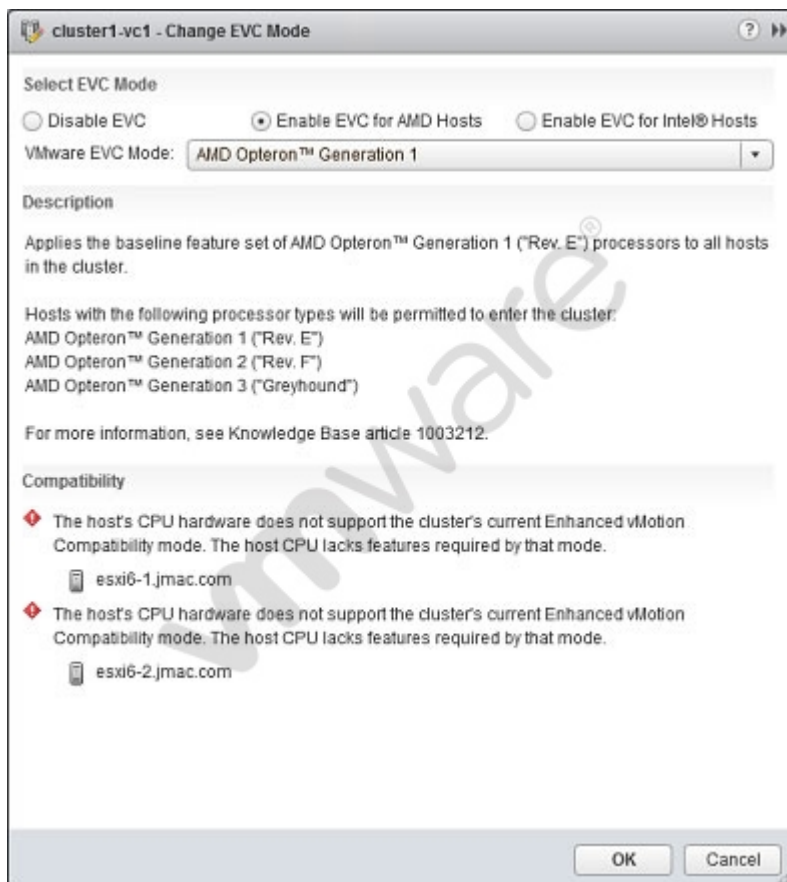
An administrator deploys vRealize Operations into a vSphere 6.x environment. After the deployment the administrator notices that badges are not appearing.

What is a likely cause of this behavior?

- ☐ Badges do not appear until you register vRealize Operations with vCenter Server.
- ☐ Badges do not appear until you register a vCenter Server in vRealize Operations.
- ☐ The vRealize Operations appliance needs to be redeployed.
- ☐ The vCenter Server appliance needs to be redeployed.

Question 94

Refer to the Exhibit.



An administrator attempts to enable Enhanced vMotion Compatibility (EVC) on a cluster. The operation results in a compatibility error, as shown in the exhibit.

What is the likely cause of this error?

- ☐ The CPUs in the ESXi host are not AMD CPUs.
- ☐ The CPUs in the ESXi host do not support hardware virtualization capabilities.
- ☐ The XD/NX CPU features have not been enabled in the BIOS of the server.
- ☐ There is no shared storage between the hosts in the cluster.

Question 95

Which three VLAN Tagging modes are available in vSphere 6.x? (Choose three.)

- ☐ External Switch Tagging
- ☐ Private VLAN Tagging
- ☐ Virtual Switch Tagging
- ☐ VXLAN Tagging
- ☐ Virtual Guest Tagging

Question 96

A virtual machine is experiencing performance issues. The following performance metrics are observed:

CPU usage value for the virtual machine is above 90%

CPU ready value for the virtual machine is above 20%

Which two activities will likely resolve the performance issues? (Choose two.)

- ☐ Set a CPU reservation for the virtual machine.
- ☐ Increase the CPU limit on the virtual machine.
- ☐ Decrease CPU shares equally for all virtual machines on the host.
- ☐ Increase CPU shares equally for all virtual machines on the host.

Question 97

An administrator has just configured the IP address on an ESXi host from the Direct Console User Interface.

How can the configuration be validated as correct without any additional tools?

- ☐ Add the host to vCenter Server and if it works, then all networking settings are ok.
- ☐ Select the Test Management Network option from the DCUI.
- ☐ Connect to the host with the vSphere Client and click the Test Network option.
- ☐ Use PowerCLI to connect to the host and initiate a network test.

Question 98

An administrator wants to add a web server to an existing multi-tier application consisting of three virtual machines:

A web server

A database server

An application server

◆◆

The web server should be added to the application when the primary web server reaches:

70% vCPU utilization

55% active memory

◆◆

Which option will achieve this result?

- ☐ Create a virtual machine alarm with an action to run a script that starts a new instance of the web server.
- ☐ Create a host cpu and memory alarm with an action to run a script that starts a new instance of the webserver.
- ☐ Configure High Availability application monitoring for the web server and set it to trigger deployment of a new instance of the web server.
- ☐ Configure Fault Tolerance on the virtual machine and leave the secondary machine disabled until needed.

Question 99

VMware tools is failing to install on a Microsoft Windows virtual machine.

◆◆

What are two possible situations that would prevent the installation? (Choose two.)

- ☐ The VMware tools installation media is corrupt.
- ☐ The incorrect Operating System was selected in the virtual machine options.
- ☐ The software prerequisites have not been installed.
- ☐ The prerequisite services have not been started.

Question 100

An administrator is installing vCenter Server for an environment that has 40 ESXi 6.x Hosts and 150 virtual machines.

◆◆

Which database would meet the minimal requirements needed for this task?

- ☐ vFabric Postgres
- ☐ Microsoft SQL Express 2008
- ☐ Microsoft SQL Server 2014
- ☐ Oracle 11g

Question 101

An administrator logs into the vSphere Web Client, but is unable to see any hosts and clusters.

Which two options could fix the problem? (Choose two.)

- ☐ Verify that the client web browser and vCenter Server are in the same broadcast domain.
- ☐ Verify that the vCenter Server system is registered with the same Platform Services Controller as the vSphere Web Client.
- ☐ Log in to the vCenter Server as a user within the Active Directory domain.
- ☐ Log in to the vSphere Web Client as a user with permissions on the vCenter Server system.

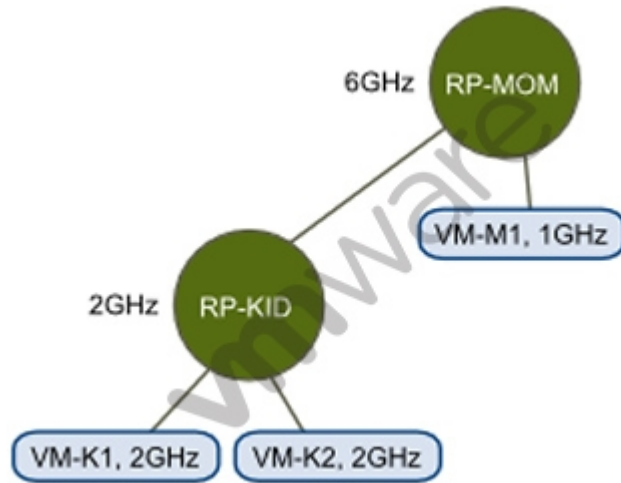
Question 102

What is true about resource pools created on a Distributed Resource Scheduler (DRS) cluster?

- ☐ A root resource pool is created with the specified values.
- ☐ A root resource pool is automatically created using the aggregate total of the ESXi host resources in the cluster.
- ☐ A root resource pool is automatically created using the aggregate total of all resources in the datacenter.
- ☐ A root resource pool is not needed when creating resource pools on a DRS cluster.

Question 103

Refer to the Exhibit.



An administrator has created the resource pool configuration shown in the Exhibit.

Based on the exhibit, which virtual machine(s) can be successfully powered on?

- ☐ VM-M1 only
- ☐ VM-K1 only
- ☐ VM-K1 and VM-K2 only
- ☐ VM-K1, VM-K2, and VM-M1

Question 104

What is a benefit of using Enhanced vMotion Compatibility for an environment?

- ☐ EVC masks CPU features to allow compatibility between hosts that are dissimilar
- ☐ EVC allows for cross platform vMotion to occur.
- ☐ EVC enables Long Distance vMotion.
- ☐ EVC enables Storage vMotion functionality.

Question 105

A user wants to monitor a business-critical virtual machine to ensure that it doesn't run out of resources.

◆

◆What metric could be monitored in vRealize Operations to address this concern?

- ☐ Time Remaining badge
- ☐ Compliance badge
- ☐ Reclaimable Waste badge◆
- ☐ Density badge

Question 106

Which three features are not supported when using Fault Tolerance in vSphere 6.x? (Choose three.)

- ☐ Virtual Volumes (VVOLS)
- ☐ Storage vMotion
- ☐ Virtual Machine Component Protection
- ☐ vMotion
- ☐ vSphere Distributed Switches

Question 107

What are two possible causes of Storage Distributed Resource Scheduler (SDRS) being disabled on one or more virtual machine disks in a datastore cluster? (Choose two.)

- ☐ The virtual machine has vSphere Fault Tolerance disabled.
- ☐ The virtual machine is a template.
- ☐ The virtual machine swap file is on a shared datastore.
- ☐ The disk is a CD-ROM/ISO file.

Question 108

What must be enabled to ensure that VM Component Protection (VMCP) works in a High Availability cluster?

- ☐ VMware Tools Virtual Machine Communication Interface (VMCI)
- ☐ Fault Tolerance
- ☐ Atomic Test and Set (ATS)
- ☐ All Paths Down (APD) Timeout

Question 109

An administrator is attempting to power on a virtual machine, but the task is hanging at 95%.
 ♦♦

What three scenarios best explain why this problem is happening? (Choose three.)

- ☐ A virtual machine question is currently being posed to the administrator
- ☐ Another task for the virtual machine or other component is already in progress.
- ☐ The VMware High Availability cluster has insufficient resources to guarantee failover
- ☐ The host has lost access to the storage device containing the virtual machine files.
- ☐ The host is under resource contention and unable to power on the virtual machine.

Question 110

After selecting an object in vRealize Operations, how can a user compare the badge values of related child objects?

- ☐ Use the Scoreboard tab
- ☐ Use the Relationship tab
- ☐ Use the Members tab
- ☐ Use the Overview tab

Question 111

An administrator is deploying multiple Windows 2003 Virtual Machines from the same template.

What two steps should be taken to avoid network conflicts? (Choose two.)

- ☐ Customize the guest operating system.
- ☐ Install VMware Tools into the new virtual machines.
- ☐ Copy the Microsoft Sysprep tools onto the vCenter Server system.
- ☐ Ensure the e1000 vmnic is selected for each new virtual machine.

Question 112

An administrator attempts to create a Thick Provisioned Virtual Disk (VMDK) on an NFS datastore; but it fails.

Which two reasons would explain the failure? (Choose two.)

- ☐ The datastore is on an NFS 3 storage server that does not support Hardware Acceleration
- ☐ The datastore is on an NFS 4.1 storage server
- ☐ Only VMFS datastores support "Thick Provisioned" VMDK
- ☐ The NFS datastore was not created on a "Thick Provisioned" device

Question 113

A new vApp was built and tested in the corporate headquarters datacenter running vSphere 6.x.

What condition would explain why the virtual machine is failing to boot in an offsite datacenter running on vSphere 5.5?

- ☐ The virtual machine was built with the default hardware version.
- ☐ The VMFS 5 datastore is not compatible with virtual machines configured with vSphere 6.x.
- ☐ A DRS 5.5 cluster cannot run virtual machines configured with vSphere 6.x.
- ☐ The VMDK file is locked.