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vSphere 6 Foundations Exam

Score: 800/1000

Version:

Time Limit: 120 Minutes

Exam A (110 questions)

Question 1

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 2

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 3

An administrator has unsuccessfully attempted several times to install an Operating System inside a virtual machine. The administrator finds that the installation fails at random intervals.

Which two actions can be taken to resolve this issue? (Choose two.)

- ☐ Verify the md5sum and if invalid, download the installation files again.
- ☐ Attempt the installation an additional time.
- ☐ Attempt to use a different installation media or installation method.
- ☐ Create a new virtual machine and attempt the installation with the existing media.

Question 4

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 5

An administrator is creating a new Virtual SAN cluster on a Layer 2 network. There is an existing Virtual SAN cluster on the same Layer 2 network.

Which two actions would allow the new Virtual SAN cluster to coexist with the older cluster? (Choose two.)

- ☐ Change the default Multicast Address on the new Virtual SAN cluster.
- ☐ Change the default Unicast Address on the new Virtual SAN Cluster
- ☐ Create a separate VLAN for each cluster.
- ☐ Create an ARP Alias for the Virtual SAN VMkernel Network Adapter

Question 6

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 7

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 8

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

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

Question 9

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 10

Which three items should be validated prior to installing ESXi 6.x? (Choose three.)

- ☐ Remote Storage has been disconnected.
- ☐ Installation media is available.
- ☐ Server hardware clock is set to UTC.
- ☐ Storage has been partitioned with a VMFS volume.
- ☐ Network cards have been setup to use Jumbo Frames.

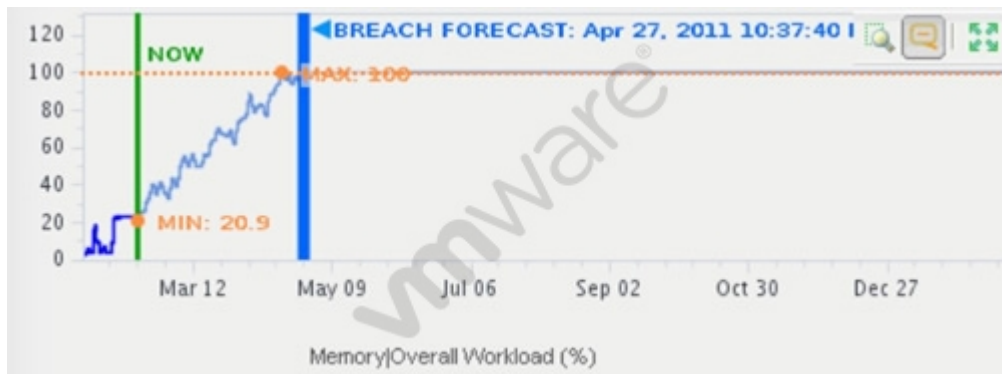
Question 11

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 12

Refer to the Exhibit.



An administrator is analyzing a virtual machine as shown in the Exhibit.

What is the current long term risk for this virtual machine?

- ☐ The virtual machine may run out of memory before April 27.
- ☐ The virtual machine may continue to function after April 27.
- ☐ The virtual machine has adequate memory configured for operation for the next 120 days.
- ☐ The virtual machine has adequate memory reservation configured for operation for the next 120 days.

Question 13

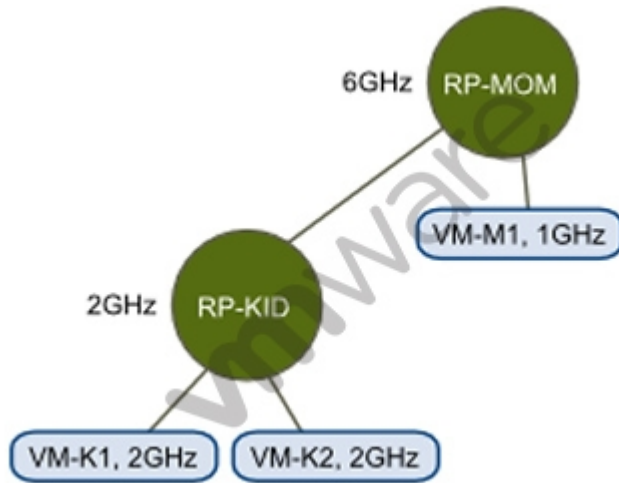
An administrator needs to verify that vMotion operations can be performed in a vSphere data center.

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 14

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 15

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 16

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.

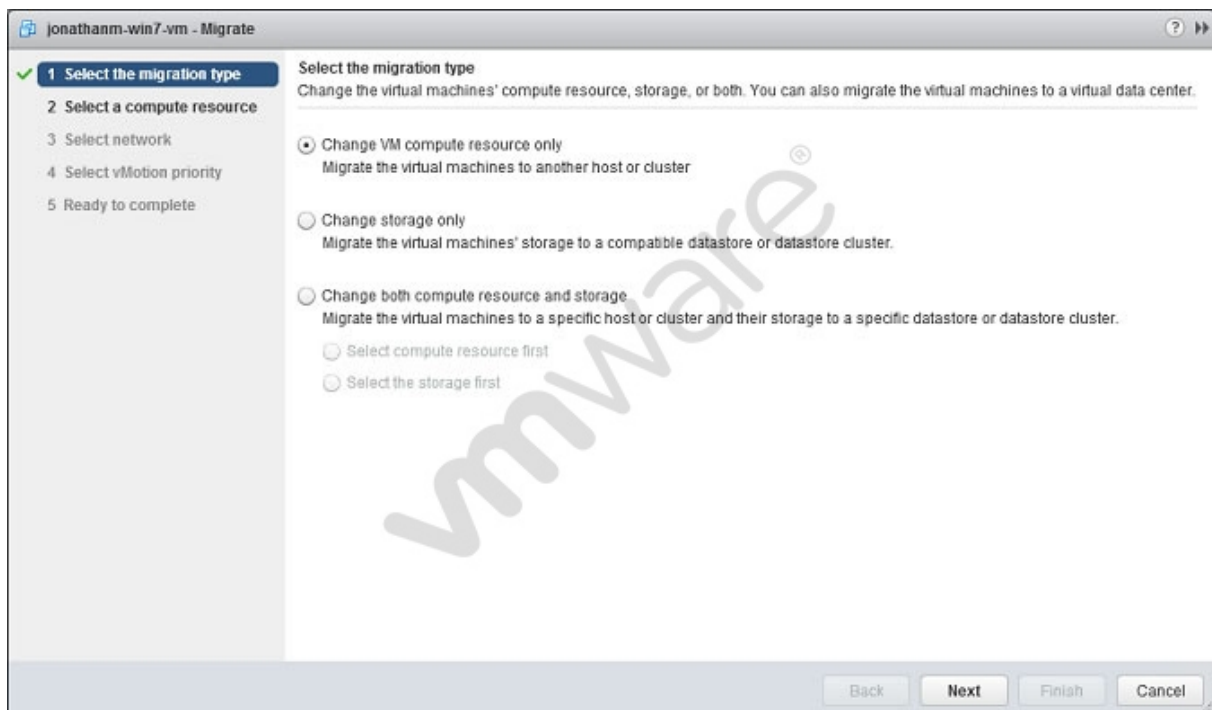
Question 17

Which two statements are true regarding VMware vSphere Flash Read Cache (vFRC)? (Choose two.)

- ☐ Cache fills and cache evictions happen in the granularity of a cache block size.
- ☐ vFRC caches data from both read and write I/Os, but write I/Os are always serviced by the underlying storage.
- ☐ vFRC caches data from both read and write I/Os, but write I/Os are always serviced by the underlying cache data.
- ☐ Cache fills and cache evictions happen in the granularity of the disk block size.

Question 18

Refer to the Exhibit.



An administrator is migrating a powered-on virtual machine, as shown in the exhibit.



Which option should be selected to perform a Storage vMotion of the VM?

- ☐ Change storage only
- ☐ Change VM compute resource only
- ☐ Change both compute resource and storage, changing the compute resource first.
- ☐ Change both compute resource and storage, changing the storage resource first.

Question 19

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 20

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 21

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 22

A vCenter Operations Manager 5.7 environment is upgraded to vRealize Operations. After the upgrade, the analytics services fail to start.

◆◆

Which three steps must be taken to resolve the problem? (Choose three.)

- ☐ Take the vRealize Operations cluster offline.
- ☐ Delete the activity persistence files.
- ☐ Bring the cluster back online.
- ☐ Remove any unresponsive nodes.
- ☐ Stop the CaSA service.

Question 23

Which type of Adapter does not require vmkernel networking?

- ☐ Independent Hardware iSCSI Adapter
- ☐ Dependent Hardware iSCSI Adapter
- ☐ Software iSCSI Adapter
- ☐ Software FCoE Adapter

Question 24

Which three features can be enabled for a new host cluster? (Choose three.)

- ☐ Storage Distributed Resource Scheduling
- ☐ High Availability
- ☐ Fault Tolerance
- ☐ Distributed Resource Scheduling
- ☐ Virtual SAN

Question 25

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 26

What is the default load balancing policy for a newly created VMkernel port on a vSphere Distributed Switch?

- ☐ Route based on originating virtual port ID
- ☐ Route based on IP Hash
- ☐ Route based on source mac address
- ☐ Route based on physical NIC load

Question 27

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 28

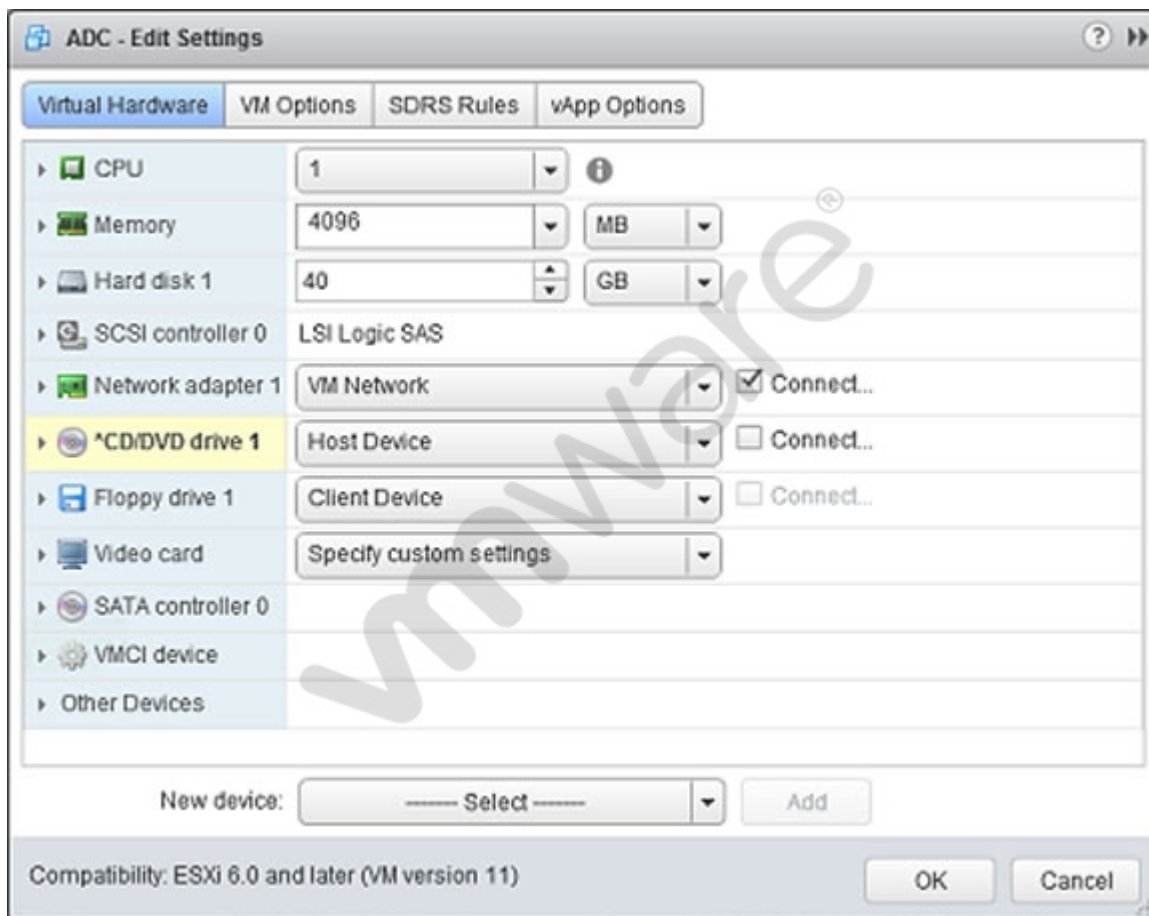
An administrator is performing a scripted installation of ESXi 6.x.

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

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

Question 29

Refer to the Exhibit.



An administrator is installing Windows into a virtual machine. The DVD has been mounted on the Host and configured for the virtual machine as shown in the Exhibit.

◆◆

Based on the exhibit, when the virtual machine is booted, why would it attempt to search for a PXE server?

- ☐ The CD/DVD device is not connected.
- ☐ The ISO is in the incorrect storage location.
- ☐ The OS minimum requirements have not been met.
- ☐ The CD/DVD device is not set to Client Device.

Question 30

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 31

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

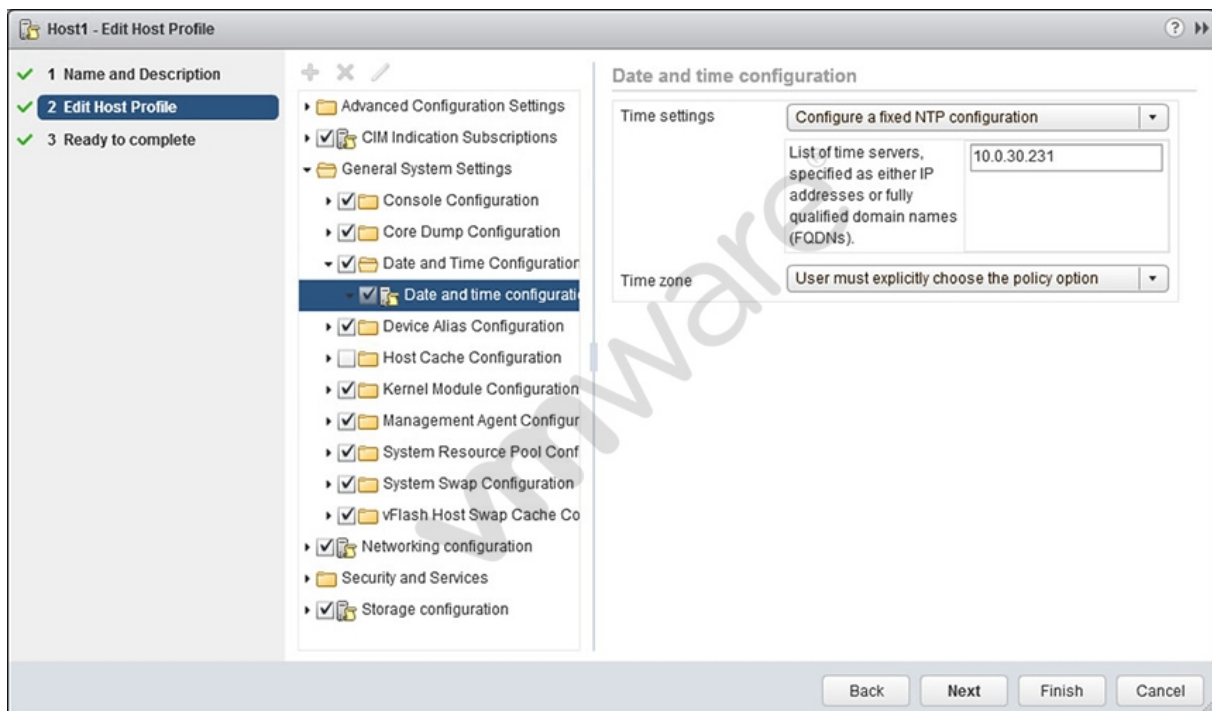
Question 32

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 33

Refer to the Exhibit.



An administrator has configured a host profile so that ESXi 6.x hosts will point to the corporate NTP server for time synchronization. The NTP server is located at 10.0.30.231, but time has not been synchronized properly across the ESXi hosts.

The administrator reviews Host Profile settings as shown in the Exhibit.

◆◆

Which two steps are required to resolve the issue? (Choose two.)

- ☐ Correct the NTP server IP address.
- ☐ Check the host for host profile compliance.
- ☐ Remediate the host based on the updated host profile.
- ☐ Change the NTP server to the FQDN as IP Addresses are not supported.

Question 34

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%

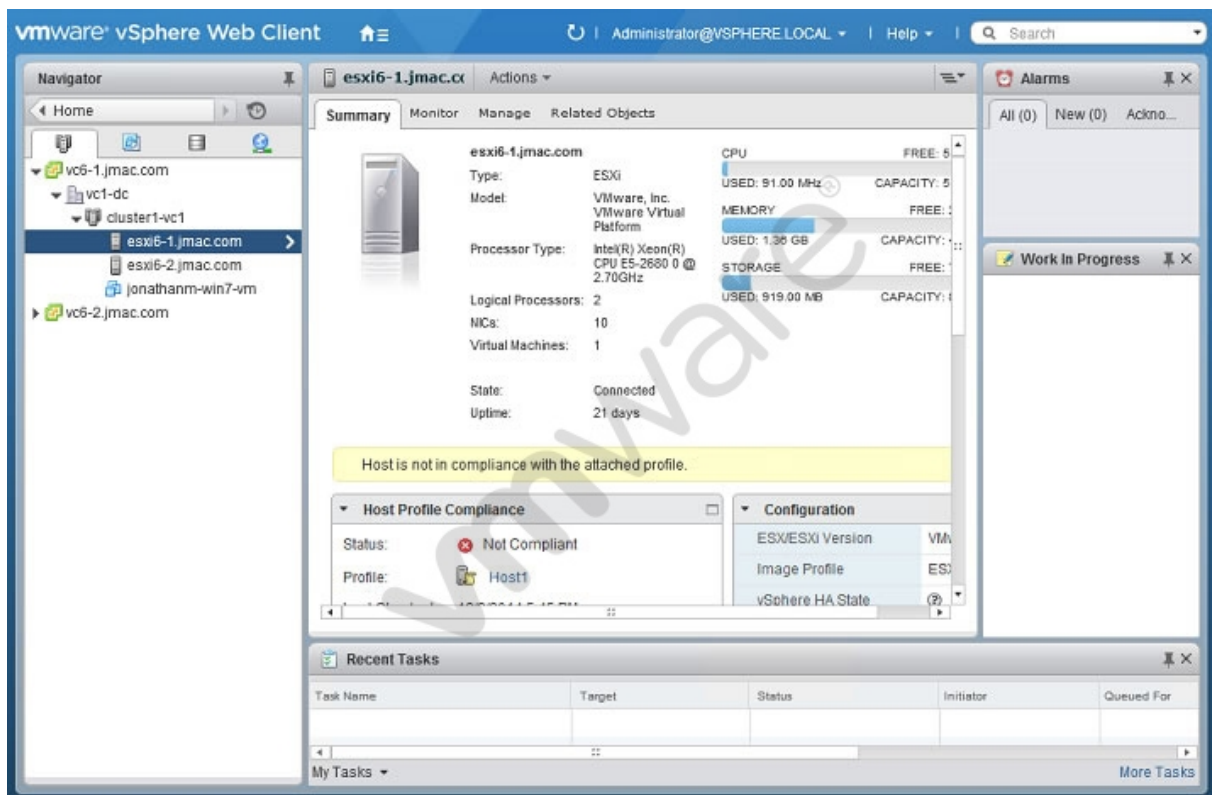
♦

♦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 35

Refer to the Exhibit.



An administrator logs into the vSphere Web Client and sees the warning shown in the Exhibit.

During a change control window, the warning was addressed.

What should be done to verify that the host is no longer showing the warning?

- ☐ Run a Remediate host operation.
- ☐ Recheck the compliance of the host.
- ☐ Restart the host to get rid of the warning.
- ☐ Install VMware tools to clear the warning.

Question 36

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 37

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 38

An administrator has an application that requires connection directly to PCI devices through a virtual machine.

What is a limitation of this configuration?

- ☐ Devices must be reserved for PCI passthrough on at least one host on which the virtual machine will run.
- ☐ Snapshots are not supported with DirectPath I/O devices.
- ☐ A maximum of 18 PCI DirectPath I/O devices can be added to a virtual machine.
- ☐ Only one PCI controller can be presented to the virtual machine.

Question 39

An administrator is attempting to enable Storage I/O Control on a datastore, but it is failing.
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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 40

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 41

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 42

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 43

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 44

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 45

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 46

Which method provides the best performance for the lowest resource cost when building a virtual machine for a single-threaded Windows application?

- ☐ Deploy single-threaded applications on uniprocessor virtual machines.
- ☐ Deploy single-threaded applications on symmetric multi-processor virtual machines.
- ☐ Tune single-threaded applications to take advantage of symmetric multi-processor resources.
- ☐ Tune Single-threaded applications at the hypervisor level.

Question 47

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 48

An administrator enables High Availability (HA) on a Virtual SAN cluster.



Which network is used for HA Network Heartbeat configuration?

- ☐ The Management network.
- ☐ The vMotion network.
- ☐ The Virtual SAN network.
- ☐ The Provisioning Traffic network.

Question 49

An administrator configures vSphere Replication for a virtual machine and enables multiple point in time (PIT) instances under the recovery settings in the Configure Replication wizard.

Which two statements are correct for vSphere Replication with multiple point in time instances enabled? (Choose two.)

- ☐ vSphere Replication retains a number of snapshot instances of the virtual machine on the target site based on the retention policy that you specify.
- ☐ vSphere Replication uses the virtual machine's snapshot instances to define the target site Point in Time instance based on the retention policy that you specify.
- ☐ vSphere Replication does not support virtual machines with snapshots.
- ☐ vSphere Replication supports virtual machines with snapshots.

Question 50

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 51

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 52

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 53

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 54

When configuring vSphere Replication for a virtual machine, what is the lowest Recovery Point Objective (RPO) that can be selected?

- ☐ 1 min
- ☐ 5 min
- ☐ 10 min
- ☐ 15min

Question 55

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 56

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 57

How are ports scaled on vSphere Standard Switches (vSS)?

- ☐ Ports on a vSS can be dynamically scaled up and down.
- ☐ Ports on a vSS can only be statically scaled up or down.
- ☐ Ports on a vSS can only be dynamically scaled down.
- ☐ Ports on a vSS can only be dynamically scaled up.

Question 58

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 59

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 60

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

◆

What are two ways ESXi hosts can 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 61

A physical Windows 2008 R2 Server is converted to a virtual machine using VMware vCenter Converter. Upon completion of the conversion and subsequent power on operation, the virtual machine fails to boot and the message below is observed in the Console of the virtual machine:

◆◆

STOP 0x0000007B INACCESSIBLE_BOOT_DEVICE

◆◆

Which two potential issues may be causing this boot failure? (Choose two.)

- ☐ An incorrect SCSI controller was selected during conversion.
- ☐ Incompatible software drivers were migrated into the virtual machine from the source machine.
- ☐ The vmdk file backing the virtual machine was thick provisioned.
- ☐ A snapshot was taken immediately after the conversion completed.

Question 62

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 63

An ESXi 6.x host consists of 24 logical cores. Hyperthreading is enabled on the host.

What is the maximum number of vCPUs that can be assigned to a virtual machine on this host?

- ☐ 24
- ☐ 48
- ☐ 64
- ☐ 128

Question 64

An administrator is attempting to power on a virtual machine, but is unable to do so.

◆◆

Which two reasons are probable causes of the failure? (Choose two.)

- ☐ Storage access to the virtual machine swap file has been lost.
- ☐ One of the virtual machine VMDK files is locked.
- ☐ Virtual machine is running CentOS 7.0 64-bit.
- ☐ Virtual machine has Hyper-Threading enabled.

Question 65

What is a benefit of using VMware Data Protection (VDP)?

- ☐ Provides support for guest-level backups and restores of Microsoft SQL Servers, Exchange Servers, and Share Point Servers.
- ☐ Provides support for advanced storage services including replication, encryption, deduplication, and compression.
- ☐ Provides direct access to VDP configuration integrated into the vSphere Client.
- ☐ Reduces disk space consumed by virtual machine data using deduplication.

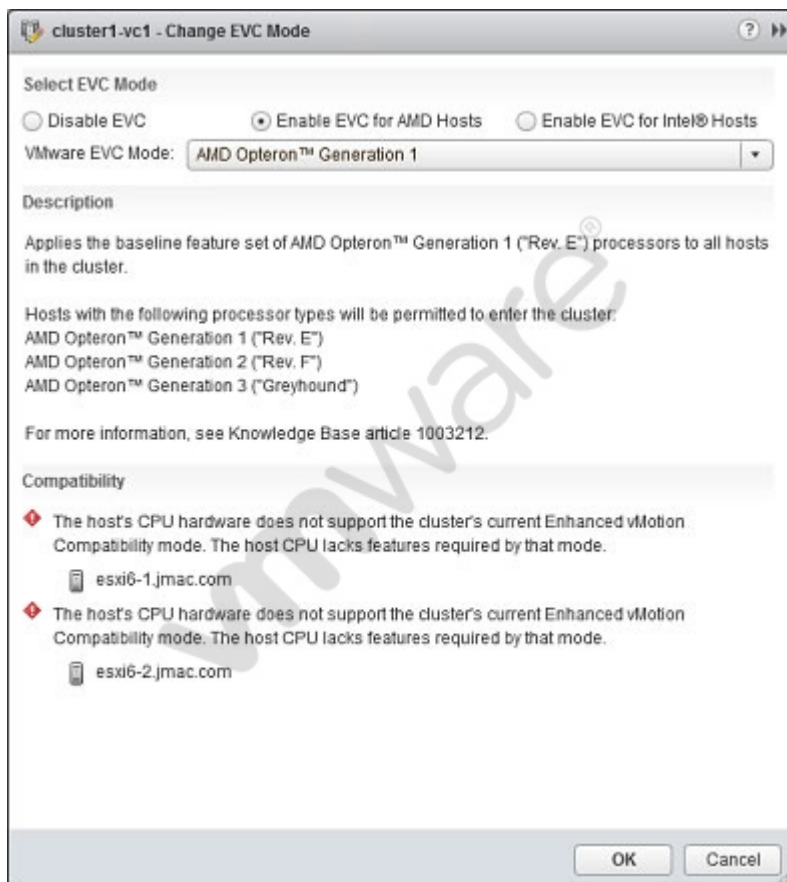
Question 66

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 67

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 68

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

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

Question 69

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 70

Which three actions can be taken as a result of executing the vSphere Update Manager 6.x scan and remediation wizards? (Choose three.)

- ☐ Install and upgrade software in virtual machines.
- ☐ Upgrade the firmware on ESXi host devices.
- ☐ Upgrade and Patch ESXi hosts.
- ☐ Install and update third-party software on hosts.
- ☐ Upgrade virtual machine hardware.

Question 71

A Fault Tolerance (FT) virtual machine with four vCPUs is experiencing high latency when performing ICMP and Application tests.

◆◆

What are three potential causes that may be attributing to this latency? (Choose three.)

- ☐ The FT network has insufficient bandwidth and is running on a 1GB Link.
- ☐ The FT network is on a particularly high latency link.
- ☐ The FT network has been configured with Network I/O Control.
- ☐ The FT virtual machine is running an e1000 network adapter.
- ☐ The FT virtual machine is running on poor performing network-based storage.

Question 72

An administrator is given a bash script that retrieves data for ESXi 6.x host configurations. This data needs to be collected right after the installation of a host and must be run directly on the host.

Which two actions can be used to run this script on an ESXi host? (Choose two.)

- ☐ Connect to the host with Ruby vSphere Console and run the script from there.
- ☐ Enable SSH access from the Direct Console User Interface.
- ☐ Enable the ESXi Shell from the Direct Console User Interface.
- ☐ Run the script directly from the vSphere Web Client.

Question 73

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 74

vMotion can be performed between which three physical boundaries? (Choose three.)

- ☐ Between two vCenter Server Systems
- ☐ Between two vSphere Distributed Virtual Switches
- ☐ Between two vCenter Server Datacenter objects
- ☐ Between two VMware NSX Layer 4 segments
- ☐ Between two NFS datastores

Question 75

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 76

An administrator is tasked with performing a vMotion migration of a virtual machine. The virtual machine is configured as follows:

vSphere Flash Read Cache (vFRC) enabled

Is part of a Distributed Resource Cluster (DRS) Cluster

Which two statements are true? (Choose two.)

- ☐ Each ESXi host in the cluster supports multiple virtual flash resources.
- ☐ Each ESXi host in the cluster supports one virtual flash resource.
- ☐ DRS treats powered-on virtual machines with Flash Read Cache as having a preferred affinity to their current host and moves them only for mandatory reasons.
- ☐ DRS treats powered-on virtual machines with Flash Read Cache as having a required affinity to their current host and does not move them.

Question 77

Which two actions are required when enabling vFlash Read Cache for a virtual machine's virtual disk? (Choose two.)

- ☐ A value in the Virtual Flash Read Cache text box must be entered.
- ☐ A Flash Resource Pool for Cache size reservation must be entered.
- ☐ The Device backing and the block size must be configured.
- ☐ The Enable virtual flash host swap cache check box must be selected.

Question 78

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 79

Which two badges are major badges in vRealize Operations? (Choose two.)

- ☐ Risk
- ☐ Efficiency
- ☐ Workload
- ☐ Faults

Question 80

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 81

You have just installed an ESXi 6.x Host. As part of your company security regulations, a security banner must be presented on the console of the host.

How can this action be accomplished?

- ☐ Configure the Advanced Settings > Annotations screen of the ESXi host.
- ☐ This is configured from the Direct Console User Interface configuration menu.
- ☐ It is not possible to configure a security banner for the ESXi host.
- ☐ From vCenter Server, this setting is configured globally in the vCenter Server configuration.

Question 82

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 83

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 84

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.)

- ☐ Datastore is on an NFS 3 storage server that does not support Hardware Acceleration
- ☐ 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 85

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.

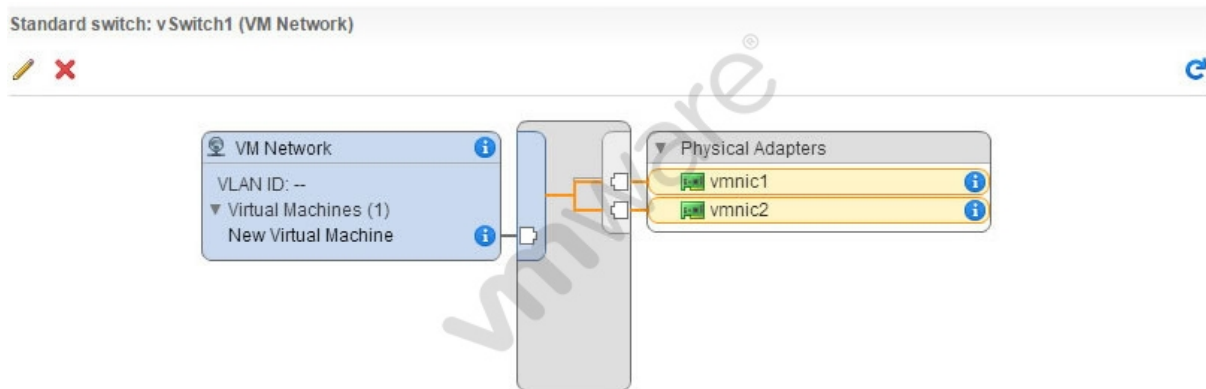
Question 86

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 87

Refer to the Exhibit.



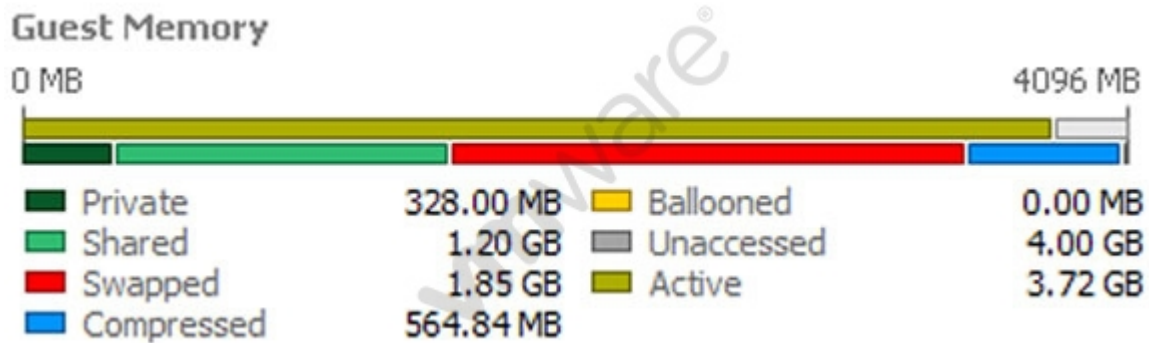
An administrator is viewing network connectivity for a new virtual machine, as shown in the Exhibit.

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 88

Refer to the Exhibit.



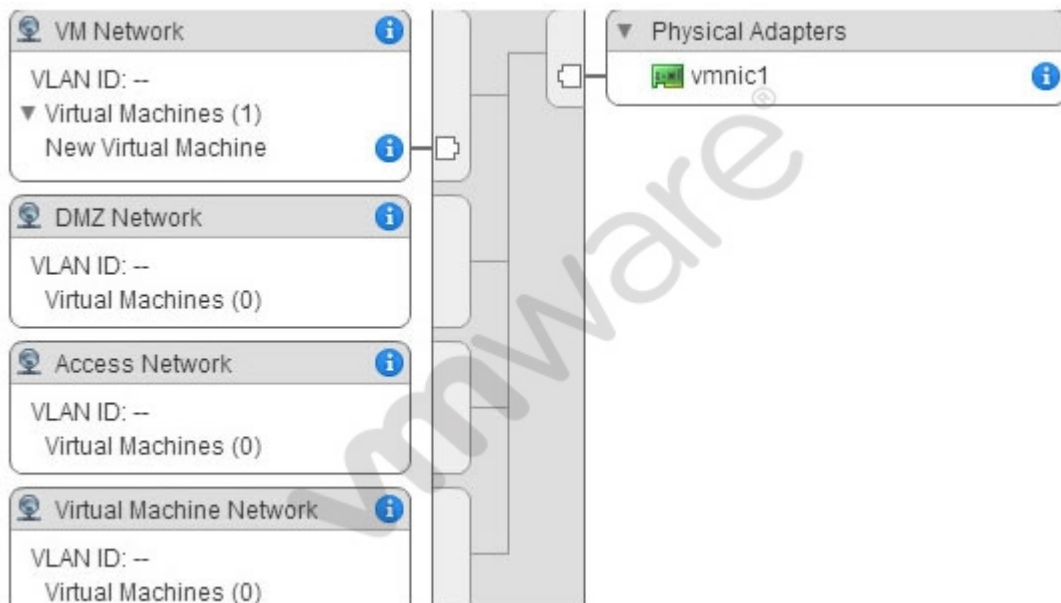
A 4 GB Memory virtual machine is experiencing extended memory issues, as shown in the Exhibit.

What potential issues could be attributed to this memory pressure?

- ☐ A limit is imposed on the virtual memory of this virtual machine.
- ☐ The Balloon driver has been uninstalled.
- ☐ A limit has been imposed on the Virtual CPU of the virtual machine.
- ☐ Storage IO control has been enabled for the virtual machine causing the swapped memory.

Question 89

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 90

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 91

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 92

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 93

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 94

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 95

An administrator has just completed installing an ESXi 6.x host, but doesn't know what address has been configured.

Where is the ESXi host IP address configured?

- ☐ RVC console
- ☐ Direct Console User Interface
- ☐ vSphere Web Client
- ☐ vSphere Client

Question 96

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.

◆

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 97

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 98

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 99

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 100

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 101

After installation of a host in your test environment, you need to move it to production. The only major change that needs to be made is that the hostname of the server needs to change.

What are two ways that an administrator can change the host name without editing configuration files on the host directly? (Choose two.)

- ☐ Login to the Direct Console User Interface and change it from here.
- ☐ Edit the Default TCP/IP Configuration from the vSphere Web Client.
- ☐ Use the Ruby vSphere Client to send a script to the ESXi host that updates the hostname.
- ☐ Update the information in DNS and the ESXi host will automatically update with these changes.

Question 102

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 103

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 104

An administrator is using the Host Failures to Tolerate Admission Control Policy for a vSphere High Availability (HA) cluster. When configuring this setting on the cluster, the administrator sees this error message:

◆◆

Insufficient resources to satisfy HA failover level on cluster

◆◆

What are two likely causes for the error? (Choose two.)

- ☐ The hosts in the cluster are disconnected.
- ☐ A host in the cluster is displaying an HA error.
- ☐ Distributed Resource Scheduler has not been configured on the cluster.
- ☐ Virtual Machine Component Protection has not been turned on.

Question 105

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

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

Question 106

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 107

An administrator reports◆that the System Event log◆data is only available for 24 hours when◆reviewing the◆Hardware Status tab.

Which◆condition could be◆responsible for the loss of data?

- ☐ A Reset event log was executed.
- ☐ The statistical collection level was set to a value of 1.
- ☐ The boot disk of the host is corrupt.
- ☐ Syslog has been configured at the vCenter Server level.

Question 108

What are◆three goals of resource management within a cluster?◆(Choose three.)

- ☐ To prevent virtual machines from monopolizing resources and to guarantee predictable service rates.
- ☐ To exploit undercommitted resources and overcommit with graceful degradation.
- ☐ To provide◆solutions to potential problems that you might encounter when using vCenter Server.
- ☐ To control the relative importance of virtual machines and provide flexible dynamic partitioning.
- ☐ To provide additional network administration capabilities.

Question 109

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 110

An administrator has been tasked with enabling High Availability (HA) on a cluster in a vSphere 6.x environment with default settings. The cluster configures properly and there are no errors. The next day when powering on a virtual machine, an error is presented:

Not Enough Failover Resources

Which three scenarios are likely causes of this error message? (Choose three.)

- ☐ The default VM Monitoring Sensitivity is set too high.
- ☐ There are not enough datastore heartbeat datastores configured by default.
- ☐ The default slot size in the cluster is set too high.
- ☐ There are virtual machines with large CPU reservations.
- ☐ A host is in maintenance mode for a replacement of a failed Hard Drive.