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2V0-620

vSphere 6 Foundations Exam

Exam A

QUESTION 1
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?

A. vFabric Postgres
B. Microsoft SQL Express 2008
C. Microsoft SQL Server 2014
D. Oracle 11g

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
For 40 ESXi 6.x hosts and 150 virtual machines, you can install Microsoft SQL server 2014 because it can handle the amount of data required for that many hosts and virtual machines.
Reference: https://www.vmware.com/files/pdf/solutions/SQL_Server_on_VMware-Best_Practices_Guide.pdf

QUESTION 2
What information is required as part of an interactive ESXi 6.x installation?

A. Keyboard layout
B. IP Address
C. Root password

D. DNS information

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
Explanation:
Keyboard layout is required for interactive ESXi 6.x installation
Reference: http://www.unixarena.com/2015/05/how-to-install-vmware-vsphere-6-0-esxi.html

QUESTION 3
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?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Host networking rollbacks occur when an invalid change is made to the host networking configuration. Every network change that disconnects a host also triggers a rollback.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2032908

QUESTION 4
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)

A. Use the esxcli system syslog command.
B. Edit them in the ESXi host Advanced System Settings.

C. From the Syslog collector user interface of the Web Client.

D. Syslog logging is not available for ESXi Hosts.

Correct Answer: AB
Section: (none)
Explanation
Explanation/Reference:
Explanation:
To direct logs to a syslog server, uses esxcli system syslog command and edit them in the ESXi host advanced system settings.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2003322

QUESTION 5
An administrator is performing an interactive installation of ESXi 6.x.

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

A. DVD
B. USB
C. PXE
D. Scripted
E. Auto Deploy

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You can install ESXi 6.x using DVD drive, USB flash drive or PXE.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2109708

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

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

A. PXE Server
B. HTTPS

C. FTP
D. NFS
E. VVOLs Datastore

Correct Answer: BCD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
▪ The script must be created using supported commands.
▪ Ensure you consider all disks that are connected to the host at the time of installation to avoid inadvertently overwriting data. Disk names can vary from machine to machine, one of the settings that you may want to configure and double check in a script is the disk selection for the ESXi installation.
▪ The host installation script must be stored in a location that the host can access by FTP. HTTP, HTTPS, NFS, USB flash drive, or CD-ROM drive. The installation media can be mounted on the host locally, remotely, or through PXE boot.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2109708

QUESTION 7
An administrator has just completed performing an interactive installation of ESXi 6.x and is booting the host.

How is the network initially configured?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Network is automatically configured by DHCP
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-installation-setup-guide.pdf

QUESTION 8
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?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
This DCUI interface offers the following:

- Configure Root password
- Configure Lockdown mode
- Configure Management network
- Restart Management Network
- Test or disable Management
- Configure Keyboard
- View Support Information
- View System Logs
- Restart Management Network ▪
Reset System Configuration
- Remove Custom Extensions
- Shutdown or Restart /Reboot the ESXi Server
Reference: http://www.virtualizationadmin.com/articles-tutorials/vmware-esx-and-vsphere-articles/installation-and-deployment/understanding-vmware-esxi-directconsole-user-interface-dcui.html

QUESTION 9
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?

A. Run the ESXi installer again and reinstall the host.
B. Select the Reset System Configuration option from the vSphere Client when connected directly to the host.
C. From the Direct Console User Interface, select Reset System Configuration.

D. Use a host profile to reset the configuration to a default state.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
This DCUI interface offers the following:

▪ Configure Root password
▪ Configure Lockdown mode
▪ Configure Management network
▪ Restart Management Network
▪ Test or disable Management
▪ Configure Keyboard
▪ View Support Information
▪ View System Logs
▪ Restart Management Network
▪ Reset System Configuration
▪ Remove Custom Extensions
▪ Shutdown or Restart /Reboot the ESXi Server

Reference: http://www.virtualizationadmin.com/articles-tutorials/vmware-esx-and-vsphere-articles/installation-and-deployment/understanding-vmware-esxi-directconsole-user-interface-dcui.html

QUESTION 10
Which three connection types are available when configuring a vSwitch in the vSphere Web Client? (Choose three.)

A. VMkernel Network Adapter
B. Physical Network Adapter
C. Virtual Machine Port Group for a Standard Switch
D. vMotion Network Adapter
E. vSAN Network Adapter

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Vmkernel network adapter, physical network adapter and virtual machine port group for standard switch are the connection types available when configuring
Switch in vSphere client.
Reference: https://pubs.vmware.com/vsphere-55/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-55-networking-guide.pdf

QUESTION 11
How many Link Aggregation Groups (LAGs) can be configured on a vSphere 6.x Distributed Switch?

A. 64
B. 96
C. 128
D. 256

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You can create up to 64 LAGs on a distributed switch. A host can support up to 32 LAGs. However, the number of LAGs that you can actually use depends on the
capabilities of the underlying physical environment and the topology of the virtual network. For example, if the physical switch supports up to four ports in an LACP
port channel, you can connect up to four physical NICs per host to a LAG.
Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-0D1EF5B4-7581-480B-
B99D5714B42CD7A9.html

QUESTION 12

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?

A. Distributed Switch: 6.0.0
B. Distributed Switch: 5.0.0
C. Distributed Switch: 5.1.0
D. Distributed Switch: 5.5.0

Correct Answer: B
Section: (none)
Explanation
Explanation/Reference:
Explanation:

Option	Description
vSphere Distributed Switch Version: 4.0	Compatible with ESX/ESXi version 4.0 and later. Features released with later vSphere distributed switch versions are not supported.
vSphere Distributed Switch Version: 4.1.0	Compatible with ESX/ESXi version 4.1 and later. Features released with later vSphere distributed switch versions are not supported.
vSphere Distributed Switch Version: 5.0.0	Compatible with ESXi version 5.0 and later. Features released with later vSphere distributed switch versions are not supported.
vSphere Distributed Switch Version: 5.1.0	Compatible with ESXi version 5.1 and later.

Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-09176C71-1748-460B-BB7B3671AB855D7E.html

QUESTION 13
During a new vSphere Distributed Switch configuration, where does the Maximum Transmission Unit (MTU) value get modified?

A. Uplink Settings
B. Switch Settings
C. Portgroup Settings
D. NIC Teaming Settings

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You can modify MTU values in switch settings.
Reference: https://kb.vmware.com/selfservice/microsites/search.do%3Flanguage%3Den_US%26cmd%3DdisplayKC%26externalId%3D1010557

QUESTION 14
Which two actions are prerequisites to adding ESXi 6.x hosts to a vSphere Distributed Switch? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
To manage the networking of your vSphere environment by using a vSphere Distributed Switch, you must associate hosts with the switch. You connect the physical NICs, VMkernel adapters, and virtual machine network adapters of the hosts to the distributed switch.
Prerequisites
▪ Verify that enough uplinks are available on the distributed switch to assign to the physical NICs that you want to connect to the switch. ▪
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.
Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-E90C1B0D-82CB-4A3D-BE1B0FDCD6575725.html

QUESTION 15
Which load balancing policy, previously limited to vSphere Distributed Switches, is now available on vSphere Standard Switches with vSphere 6.x?

A. Route based on physical NIC workload
B. Route based on IP Hash
C. Route based on the originating virtual port
D. Route based on Source MAC Hash

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Route based on physical NIC workload was limited to vSphere Distributed switches. Now its available on vSphere standard switches with vSphere 6.x

Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-networking-guide.pdf

QUESTION 16
Which three VLAN Tagging modes are available in vSphere 6.x? (Choose three.)
A. External Switch Tagging
B. Private VLAN Tagging
C. Virtual Switch Tagging
D. VXLAN Tagging
E. Virtual Guest Tagging

Correct Answer: ACE
Section: (none)
Explanation

Explanation/Reference:
Explanation:
There are 3 types of tagging available in vSphere.

1.Virtual Switch Tagging (VST)
2.External Switch Tagging (EST)
3.Virtual Guest Tagging (VGT)

VLAN tagging is determined by the VLAN value specified at the port group and it tells the vSwitch or Phyiscal switch or Virtual machines to how to handle the VLAN tagging.

Reference: http://www.vmwarearena.com/vlan-tagging-vst-est-vgt-on-vmware/

QUESTION 17
Which two networking connection types can be configured on a virtual switch? (Choose two.)

A. Virtual machine portgroups

B. VMkernel services (such as NFS, iSCSI, or vMotion) to the physical network
C. Web services over the Management Network
D. NFS and FCoE storage services

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Virtual machine portgroups and Vmkernel services can be configured on a virtual switch.
Reference: https://www.vmware.com/files/pdf/virtual_networking_concepts.pdf

QUESTION 18
Which two Fibre Channel zoning options are supported with vSphere 6.x? (Choose two.)

A. Single-Initiator
B. Single-Initiator-Single-Target
C. Multiple-Initiators-Single-Target
D. Multiple-Initiators-Multiple-Targets

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Use single-initiator-single-target zoning when zoning ESXi hosts to Fibre Channel arrays. With this type of configuration, fabric related events that occur on one array do not impact other arrays
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-storage-guide.pdf

QUESTION 19
Which two parameters are required when adding an iSCSI target to an iSCSI Software Adapter using Dynamic Discovery? (Choose two.)

A. The iSCSI device's IP Address or Fully Qualified Domain Name
B. The Port Number
C. The iSCSI device's iSCSI Qualified Name (IQN)
D. The Default Gateway IP Address

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
When adding an iSCSI target to an iSCSI software adapter using dynamic discovery, use iSCSI device IP address or FQDN. You can use port number to add iSCSI too.
Reference: https://pubs.vmware.com/vsphere-50/topic/com.vmware.vcli.examples.doc_50/cli_manage_iscsi_storage.7.5.html

QUESTION 20
What is true regarding datastores on ESXi 6.x?

https://vceplus.com

A. NFS 4.1 datastore does not support Fault Tolerance (FT)
B. Both VMFS3 and VMFS5 datastores can be created
C. NFS datastore can be mounted using NFS 4.1 on one ESXi host and NFS 3.0 on another
D. NFS 3.0 datastore does not support Fault Tolerance (FT)

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
VMs on NFS v4.1 support FT, as long as it is the new FT mechanism introduced in 6.0.

VMs running on NFS v4.1 do not support the old, legacy FT mechanism.

In vSphere 6.0, the newer Fault Tolerance mechanism can accommodate symmetric multiprocessor (SMP) virtual machines with up to four vCPUs. Earlier versions of vSphere used a different technology for Fault Tolerance (now known as legacy FT), with different requirements and characteristics (including a limitation of single vCPUs for legacy FT VMs).
Reference: http://vsphere-land.com/news/nfs-4-1-support-in-vsphere-limitations-and-caveats.html

QUESTION 21
What are two benefits of using NFS 4.1 with vSphere 6.x as compared to NFS 3? (Choose two.)

A. NFS 4.1 supports Kerberos Authentication
B. NFS 4.1 supports multipathing
C. NFS 4.1 supports IPv6
D. NFS 4.1 supports hardware acceleration

Correct Answer: AB
Section: (none)
Explanation
Explanation/Reference:
Explanation:
NFs 4.1 support kerberos authentication and multipathing.
Reference: http://searchvmware.techtarget.com/answer/What-are-the-implications-of-NFS-41-in-vSphere-6

QUESTION 22
Which two storage controller configurations can be used with Virtual SAN? (Choose two.)

A. SAS controllers in Passthrough mode
B. SAS controllers in RAID0 mode
C. SAS controllers in RAID1 mode
D. SAS controllers in RAID10 mode

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
SAS controllers in passthrough mode and in RAID 0 mode can be used with virtual SAN.

Reference: http://blogs.vmware.com/vsphere/2014/01/virtual-san-hardware-guidance-part-ii-storage-controllers.html

QUESTION 23
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.)

A. 4 disk groups with 1 SSD and 5 MDs each
B. 2 disk groups with 1 SSD and 7 MDs each
C. 2 disk groups with 2 SSDs and 7 MDs each
D. 2 disk groups with 1 SSD and 10 MDs each

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
4 disk groups with 1 SSD and 5 Mds each and 2 disk groups with 1 SSD and 7 Mds each can meet the configuration requirements in the scenario.
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/virtual-san-60-administration-guide.pdf

QUESTION 24
Which two Virtual SAN related actions might start resynchronization of virtual machine objects? (Choose two.)

A. Editing a virtual machine storage policy to increase the number of replicas.
B. Editing a virtual machine storage policy to reduce the number of replicas.
C. Editing a virtual machine storage policy to increase the number of disk stripes.
D. Editing a virtual machine storage policy to reduce the number of disk stripes.

Correct Answer: AC

Section: (none)
Explanation

Explanation/Reference:
Explanation:
Editing a virtual machine storage policy to increase the number of replicas and the number of disk stripes with start resync of virtual machine objects.
Reference: https://www.vmware.com/support/vsphere6/doc/vmware-virtual-san-60-release-notes.html

QUESTION 25
Which two NFS Protocol versions does vSphere 6 support? (Choose two.)

A. Version 3
B. Version 3.1 C. Version 4
D. Version 4.1

Correct Answer: AD
Section: (none)
Explanation
Explanation/Reference:
Explanation:
ESXi supports NFS protocols version 3 and 4.1. To support both versions, ESXi uses two different NFS clients.
Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-8A929FE4-1207-4CC5-A0867016D73C328F.html

QUESTION 26
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.)

A. The datastore is on an NFS 3 storage server that does not support Hardware Acceleration
B. The datastore is on an NFS 4.1 storage server
C. Only VMFS datastores support "Thick Provisioned" VMDK
D. The NFS datastore was not created on a "Thick Provisioned" device

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
NFS datastores with Hardware Acceleration and VMFS datastores support the following disk provisioning policies. On NFS datastores that do not support Hardware
Acceleration, only thin format is available
Reference: https://communities.vmware.com/thread/447915?start=0&tstart=0

QUESTION 27
What condition would prevent an administrator from creating a new VMFS3 datastore on an ESXi 6.x host using the vSphere Web Client?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
VMFS3 datastore is not support on ESXi 6.x host.
Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-5EE84941-366D-4D37-8B7B767D08928888.html

QUESTION 28
Which two statements are true about VMFS5 datastores on ESXi 6.x? (Choose two.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

Explanation:

The maximum supported size of a virtual mode Raw Device Mapping (vRDM) has also been increased from 2 TB to 62 TB.

A VMDK larger than 2 TB can be created on a virtual machine that is powered on or off, but extending a VMDK beyond 2 TB is only supported when the virtual machine is powered off.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2058287

QUESTION 29

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

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

Correct Answer: BCE
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Datastore planned for solution is configured as RDM file. When the datastore has three extents and the organization has an enterprise license, storage I/O control will not be enabled on a group of datastores.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1022091

QUESTION 30

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

A. When it is a member of a Storage DRS cluster
B. When it is a member of Virtual SAN cluster
C. When it is a member of a multi-extent datastore
D. When it is a member of a Virtual Volume

Correct Answer: A
Section: (none)
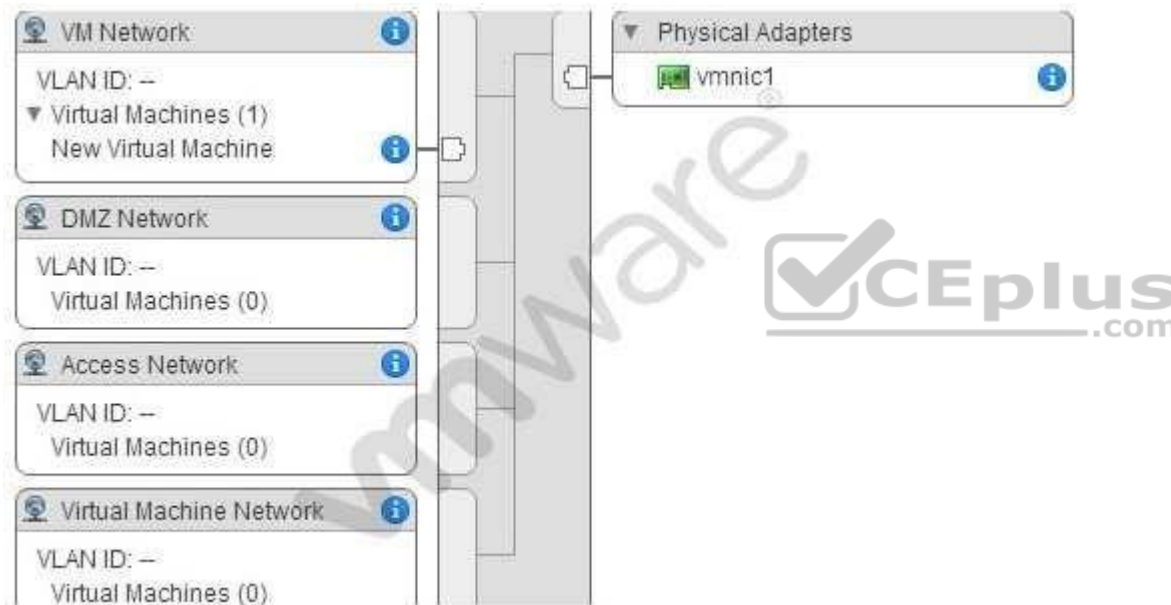**Explanation**

Explanation/Reference:

Explanation:
Storage DRS introduced the feature Datastore Maintenance mode and this new feature can be compared to Host Maintenance Mode. When a datastore is placed in Maintenance Mode all registered virtual machines on that datastore, are migrated to the other datastores in the datastore cluster. Datastore maintenance mode can be used to safely migrate virtual machines out of the datastore for storage array related maintenance operations such as migrating a LUN to another RAID group, however it is also an excellent feature that can help you during a storage migration project migrating virtual machines from standalone VMFS3 datastores to VMFS5 datastores aggregated in a Storage DRS datastore cluster.

Reference: https://blogs.vmware.com/vsphere/2012/04/using-datastore-maintenance-mode-for-migration-virtual-machines-to-datastore-clusters.html

QUESTION 31
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?

A. Access Network
B. DMZ Network
C. VM Network
D. Virtual Machine Network

Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
Explanation:
Access network will be utilized by deault when creating a new virtual machine as can be seen in the exhibit.
Reference:

QUESTION 32
You are creating a virtual machine in the Web Client using the New Virtual Machine wizard.

Which two steps are required? (Choose two.)

A. Select a valid name.
B. Select a cluster for the compute resource.
C. Select a network adapter.
D. Select the virtual machine compatibility.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
When you create a virtual machine, you provide a unique name for it. The unique name distinguishes it from existing virtual machines in the virtual machine folder or datacenter. The name can contain up to 80 characters. You can select a datacenter or folder location for the virtual machine, depending on your organizational needs.
You can accept the default ESXi host version for this virtual machine or select a different version, depending on the hosts in your environment.

Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc%2FGUID-AE8AFBF1-75D1-4172-988C378C35C9FAF2.html

QUESTION 33
From which two locations in the inventory hierarchy can you deploy a virtual machine using a template? (Choose two.)

A. Directly from the template.
B. From a compute resource.
C. From an existing virtual machine.
D. From a Datastore.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You can deploy a virtual machine directly from the template. A compute resource can also be used for deploying a VM.
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-virtual-machine-admin-guide.pdf

QUESTION 34
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.)

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

Correct Answer: AC

Section: (none)
Explanation

Explanation/Reference:
Explanation:
To avoid such network or software conflicts, its recommended to customize the VM Guest during the deployment process. For Guest OS customization of virtual machines deployed from templates, vCenter requires the following:

▪ If the guest OS is Windows, you need VMware Tools and Sysprep utils to be installed within the templates:
▪ You will need to copy Sysprep tools to vCenter for Windows 2000, XP & 2003. Starting with Windows Vista onward, Sysprep tools are part of the base OS install.

Reference: https://virtual-drive.in/2015/02/08/what-are-virtual-machine-templates/

QUESTION 35
Which two configurable options apply to both virtual machine CPU and memory allocation? (Choose two.)

A. Reservation
B. Shares
C. Resource Pool
D. Reserve All
Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reservation and shares apply to virtual machine CPU and memory allocation.
Reference: http://frankdenneman.nl/2010/06/08/reservations-and-cpu-scheduling/

QUESTION 36
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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The virtual machine is failing to boot in an offsite datacenter running on vSphere 5.5 because VM was built with the default hardware version.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1010675

QUESTION 37
When modifying a vApp, which two vSphere entities can be added? (Choose two.)

A. A resource pool
B. A network pool
C. A vApp
D. A folder

Correct Answer: AB
Section: (none)
Explanation
Explanation/Reference:
Explanation:
A resource pool and a network pool can be added when modifying a vApp.
Reference: http://wahlnetwork.com/2012/02/01/understanding-resource-pools-in-vmware-vsphere/

QUESTION 38
An administrator needs to add an object to an existing vApp using the vSphere Web Client. How is this accomplished?

A. Create an Object Inside the vApp.
B. Add an Object to a vApp.
C. Add an Object to the Datastore the vApp is located in.
D. Move all Objects to a new Datastore folder.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

Explanation:
to add an object to an existing vApp using the vsphere web client, create an object inside vApp or you can add an object to a vApp.
Reference: https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc_50%2FGUID-12FDA1A4-6214-463B-8D73FE25454C642E.html

QUESTION 39
A virtual machine template is accidently removed from the vCenter Server Inventory.

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

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Templates are associated with hosts, and the only way to regain or register templates after removing and adding a host is to use the datastore browser to locate the template. Then use the inventory wizard to name and register the .vmtx file as a template back into vCenter Server.
Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.bsa.doc_40/vc_admin_guide/working_with_templates_and_clones/t_regain_templates.html

QUESTION 40
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?

A. All three virtual machines can power on, but will have memory contention.
B. All three virtual machines can power on without memory contention.
C. Only two of the three virtual machines can power on.
D. Only one of the virtual machines can power on.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
As per the scenario, only two of the three virtual machines can power on.

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?

A. To prioritize access to a resource during contention.
B. To guarantee access to a resource during contention.
C. To prioritize access to a resource before contention occurs.
D. To guarantee access to a resource before contention occurs.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Configuring resource shares for the new Vms can prioritize access to a resource during contention
Reference: http://www.settlersoman.com/vmware-vsphere-basics-understanding-resource-pools/

QUESTION 42
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.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
First set the MAC address for the vNIC in the guest operating system and install the physical server's NIC into the ESXi host.
Reference: http://rickardandersson.com/manual-mac-address-for-a-vmware-guest

QUESTION 43
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?

A. The names of the files on the datastore do not change.
B. The names of the files on the datastore have been corrupted.
C. The virtual machine needs to be re-added to the inventory.
D. The Distributed Resource Scheduler moved the virtual machine to another host.
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The reason is that the names of the files on the datastore do not change that is why admin is unable to find files with new virtual machines name in the datastore.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1029513

QUESTION 44
What is required when changing a virtual machine name using the vSphere Web Client?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Before changing the name, verify connectivity to ESXi host where the virtual machine resides and that its inventory list is accessible.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003742

QUESTION 45
Which two options would allow a database administrator, with no access to the vSphere infrastructure, to connect to a virtual machine? (Choose two.)

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

Correct Answer: BC
Section: (none)
Explanation
Explanation/Reference:
Explanation:
Accessing a virtual machine with no access to vSphere environment is tricky. You can use virtual machine remote console to remotely access the VM by asking the admin to grant permission to access the console through vcenter server.
Reference: http://blog.mwpreston.net/2011/11/25/access-to-vm-console-without-vi-client/

QUESTION 46
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?

A. Set the shares of the priority virtual machine to High and the rest to Low.
B. Set the shares of the priority virtual machine to High.
C. Set the shares of the priority virtual machine to High and the rest to Normal.
D. Set the shares of the priority virtual machine to Normal and the rest to Low.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
For the virtual machine that requires more resources, you can set the shares of the priority VM to high and set the rest to medium or low.
Reference: http://www.globalknowledge.net/mea-shared-content/documents/645372/645389/WP_VM_Resource_Pools.pdf (page 3)

QUESTION 47
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?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
For the problem, set the vApp CPU and memory reservation type to expandable.
Reference: https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc_50%2FGUID-9902FD4C-4727-43F7-AEAF901DA4CB4D60.html

QUESTION 48
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?

A. Enable IP pools.
B. Configure a local DHCP server in the vApp.
C. Enable NAT on the vApp router.
D. Configure the guest OS for workgroup and WINS.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
IP pools were first introduced with vSphere 4, but they're not necessarily used by everyone. IP pools are necessary if you want create or deploy a vApp. They provide a network identity to vApps. IP pool gives a network config to VMs that run in the vApp. So you'll also need to have an IP pool configured if you want to test vCloud Automation Center (VCAC) or Horizon Workspace.

When you configure an IP Pool you specify a range of either IPv4 or IPv6 addresses, DNS and proxy settings, and select which vSwitch port groups that the pool

will be available to. Usually you'll want to do a static IP for server VMs, but you might want to have a test VLAN for developments and you need DHCP there.

Reference: http://www.vladan.fr/configuring-ip-pools/

QUESTION 49
A vApp template recently added to a Content Library is not displayed.

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

A. Manually synchronize the library
B. Select the Download all library content immediately option
C. Select the Sync subscribed library option
D. Manually download the vApp template

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
If the vApp template is not displayed in the content library, select the download all library content immediately option and manually synchronize the library.
Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc%2FGUID-F7BF0E6B-7C4F-4E46-8BBF76229AEA7220.html

QUESTION 50
When you add an ESXi 6.x host to a new Cluster, which vSphere object owns the CPU and Memory resources of the hosts?

A. vCenter Server
B. Datacenter
C. Cluster
D. Host

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Cluster owns the CPU and memory resources of the hosts when you add an ESXi 6.x host to a new cluster.
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-resource-management-guide.pdf

QUESTION 51
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.)

A. The DRS cluster Automation Level is set to Partially Automated mode.
B. 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.
C. 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.
D. One of the virtual machines on the ESXi Host entering maintenance mode is configured with an individual Automation Level set to Partially Automated.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
When considering an automation level, it is usually best to choose Fully Automated and let DRS handle everything. However, when first enabling DRS, you might want to set the automation level to Manual or Partially Automated so that you can observe its recommendations for a while before turning it loose on Fully Automated. Even when selecting Fully Automated, you can still configure individual VM automation levels, so you can specify certain VMs to not be migrated at all (disabled) or to be set to Manual or Partially Automated. To configure individual VM automation levels, click on Virtual Machine Options, located under DRS. Usually, the default three-star level is a good starting point and works well for most environments. You should be careful when choosing more aggressive levels, as you could have VMs moving very frequently between hosts (i.e., VM pong), which can create performance issues because of the constant VMotions which cause an entire LUN to be locked during the operation (i.e., SCSI reservations).
Reference: http://cdn.ttgtmedia.com/searchSystemsChannel/downloads/AdvancedvSpherefeatures.pdf

QUESTION 52
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.)

A. 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.
B. Create a resource pool for the ESXi host's virtual machines and resource pools. The resource pools present on the host will be deleted.
C. 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.
D. Create a resource pool for the ESXi host's virtual machines and resource pools. The resource pools present on the host will be preserved.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
First, place all of the host's virtual machines into DRS cluster root resources pool. The resource pool present on the host will be deleted. Create a resource pool for the ESXi host's virtual machines and resource pools. It will be preserved. Reference: https://communities.vmware.com/thread/473862?start=0&tstart=0

QUESTION 53
Which two events happen when Distributed Resource Scheduler (DRS) is disabled? (Choose two.)

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

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
When DRS is disabled, the cluster's resource pool hierarchy and affinity rules are not reestablished when DRS is turned back on. If you disable DRS, the resource pools are removed from the cluster. To avoid losing the resource pools, save a snapshot of the resource pool tree on your local machine. You can use the snapshot to restore the resource pool when you enable DRS.
Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.resmgmt.doc%2FGUID-2117087C-7418-4698-8CCFBDF361664A3A.html

QUESTION 54
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?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Then HA will calculate how much resources are currently reserved for both memory and CPU for powered-on virtual machines. For CPU, those virtual machines that do not have a reservation larger than 32Mhz a default of 32Mhz will be used. For memory a default of 0MB+memory overhead will be used if there is no reservation set. If a reservation is set for memory it will use the reservation+memory overhead. Reference: http://www.yellow-bricks.com/2012/06/20/ha-admission-control-basics-part-22/

QUESTION 55
Which two High Availability (HA) Cluster admission control policies can help avoid resource fragmentation? (Choose two.)
A. Define failover capacity by static number of hosts

B. Define failover capacity by reserving a percentage of the cluster resources
C. Use dedicated failover hosts
D. Use Virtual Machine Monitoring

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
To avoid resource fragmentation, define failover capacity by static number of hosts and use dedicated failover hosts.
Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.avail.doc%2FGUID-C4059DB9-D673-45CB-918C68C87FEB060A.html

QUESTION 56
What is a requirement when enabling a Virtual SAN cluster in an existing High Availability (HA) and Distributed Resource Scheduler (DRS) Cluster?

A. Disable DRS and HA before enabling Virtual SAN
B. Enable DRS before enabling Virtual SAN
C. Disable HA before enabling Virtual SAN
D. Enable Storage DRS before enabling Virtual SAN

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
One of the requirement is to disable HA before enabling Virtual SAN.
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/virtual-san-60-administration-guide.pdf

QUESTION 57
What must be enabled to ensure that VM Component Protection (VMCP) works in a High Availability cluster?

A. VMware Tools Virtual Machine Communication Interface (VMCI)
B. Fault Tolerance
C. Atomic Test and Set (ATS)
D. All Paths Down (APD) Timeout

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
There are two types of datastore accessibility failure:

PDL (Permanent Device Loss) is an unrecoverable loss of accessibility that occurs when a storage device reports the datastore is no longer accessible by the host. This condition cannot be reverted without powering off virtual machines.

APD (All Paths Down) represents a transient or unknown accessibility loss or any other unidentified delay in I/O processing. This type of accessibility issue is recoverable.
Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.avail.doc%2FGUID-F01F7EB8-FF9D-45E2-A093-5F56A788D027.html

QUESTION 58
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.)

A. Apache Server
B. vCenter ServerC. SQL Server
D. Hadoop Server

Correct Answer: AC

Explanation/Reference:
Explanation:
Apache server and SQL server can be configured to use VMware fault tolerance.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1013428

QUESTION 59
Which three statements are true regarding Fault Tolerance? (Choose three.)

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

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
With Fault tolerance, applications need to be continuously available to users, application without native clustering capabilities can be protected and custom clustering solutions are complicated to configure and maintain.
Reference: https://www.vmware.com/products/vsphere/features/availability

QUESTION 60
Which three features are not supported when using Fault Tolerance in vSphere 6.x? (Choose three.)

A. Virtual Volumes (VVOLS)
B. Storage vMotion
C. Virtual Machine Component Protection
D. vMotion
E. vSphere Distributed Switches

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Virtual volume, stage vmotion and virtual machine component protection are not support using FT in vSphere 6.x
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-availability-guide.pdf (47 and 48)

QUESTION 61
What is true about resource pools created on a Distributed Resource Scheduler (DRS) cluster?

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

Correct Answer: B
Section: (none)
Explanation
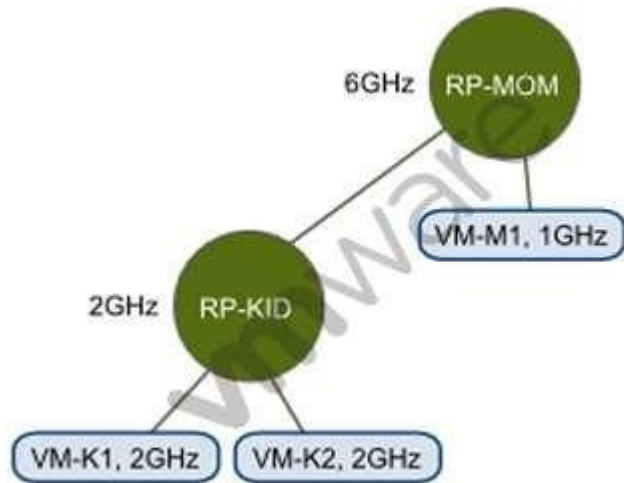
Explanation/Reference:
Explanation:
A root resource pool is automatically created using the aggregate total of the ESXi host resources in the cluster.
Reference: https://www.vmware.com/pdf/vmware_drs_wp.pdf

QUESTION 62
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?

A. VM-M1 only
B. VM-K1 only
C. VM-K1 and VM-K2 only
D. VM-K1, VM-K2, and VM-M1

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 63
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?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
When the VM is moved into the pool, it keeps the 2 GHz CPU reservation and 1 GB memory limit.
Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-resource-management-guide.pdf

QUESTION 64
Which three operations occur during a cold migration of a virtual machine? (Choose three.)

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

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

First, the virtual machine disks are moved if the datastore is being changed, the virtual machine is registered with the destination server and the source virtual machine is removed from the old host/s.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1010045

QUESTION 65
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?

A. 50ms RTT
B. 100ms RTT
C. 150ms RTT
D. 200ms RTT

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 66
Which three are requirements when using vMotion to move a virtual machine across vCenter Server systems? (Choose three.)

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

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Both of the vcenter servers must be using enhanced linked mode along with the same single sign-on domain. And the time must be synchronized.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2106952

QUESTION 67
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?

A. Perform a Storage vMotion.
B. Perform a regular vMotion.
C. Perform a Virtual to Virtual migration.
D. Perform a backup and restore using VMware Data Protection.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 68
What is a benefit of using Enhanced vMotion Compatibility for an environment?

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

Correct Answer: A
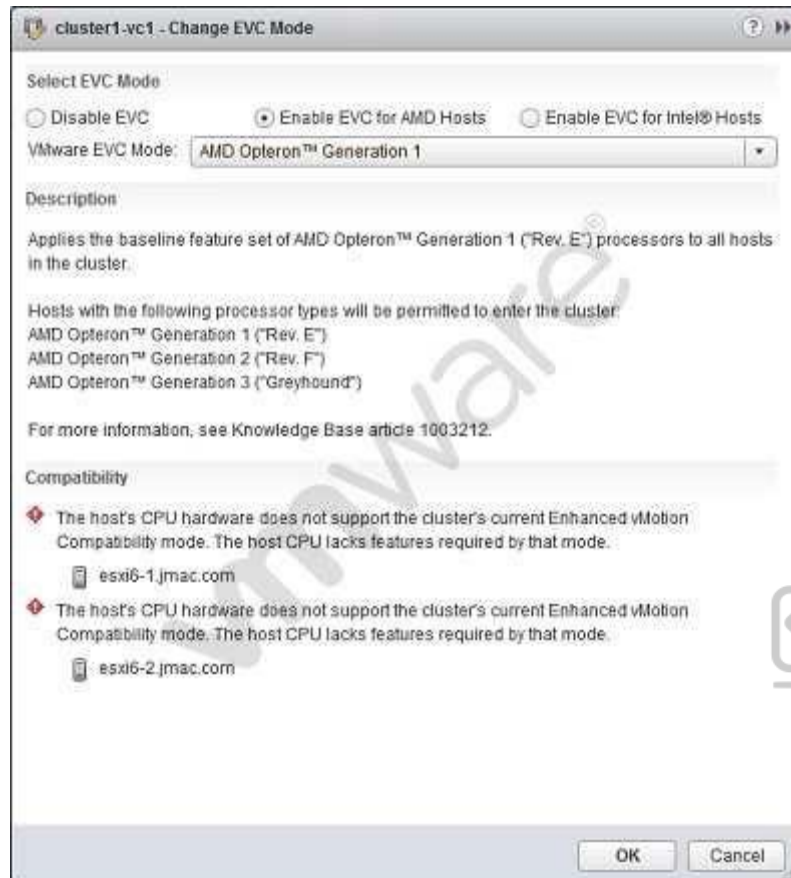**Section: (none)**
Explanation

Explanation/Reference:
Explanation:
VMware Enhanced VMotion Compatibility (EVC) will mask CPU features at host level
Reference: http://searchvmware.techtarget.com/tip/Avoiding-an-Enhanced-VMotion-Compatibility-gotcha

QUESTION 69
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?

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

Correct Answer: A

Section: (none)
Explanation

Explanation/Reference:
Explanation:
In general, if a processor can support EVC level XN, it can also support levels XN-1 to X0. For example, a processor that supports the Intel® "Sandy Bridge" Generation EVC Baseline has an EVC level of L4. Therefore, it can also support EVC levels L3, L2, L1, and L0. However, it cannot support EVC level L5, which corresponds to the Intel® "Ivy Bridge" Generation. Intel EVC Baselines are listed in Table 1.1.

For AMD processors, there are two different sequences of EVC levels: Levels A0 to A3, which support the first 3 generations of AMD Opteron™ processors, and levels B0 and above, which support AMD Opteron™ Generation 3 and later processors.

Note: The AMD Opteron™ Generation 3 (no 3DNow!™) EVC baseline is common to both sequences. For example, an AMD processor that supports the AMD Opteron™ Generation 4 EVC baseline supports the AMD Opteron™ Generation 3 (no 3DNow!™) baseline, but not the AMD Opteron™ Generation 3 baseline. An AMD processor that supports the AMD Opteron™ Generation 3 baseline supports the AMD Opteron™ Generation 3 (no 3DNow!™) baseline, but not the AMD Opteron™ Generation 4 baseline.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003212

QUESTION 70
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.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Use multiple NICs for the vmotion vmkernel port and a 10 Gbps network card for vMotion vmkernel port.
Reference: http://www.yellow-bricks.com/2011/09/17/multiple-nic-vmotion-in-vsphere-5/

QUESTION 71

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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The probable cause might be that the new vSphere 6.x cluster is running Intel CPUs instead of AMD CPUs. AMD CPUs are not compatible with Intel because of the difference of processor architecture.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1005764

QUESTION 72
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?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
VDP supports these specifications:

- Each vCenter Server can support up to 10 VDP appliances.
- Each VDP appliance supports backup for up to 100 virtual machines.
- Only 1 VDP appliance can exist per ESXi/ESX host.
- Support for 0.5 TB, 1 TB, or 2 TB of deduplicated backup data.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2016565

QUESTION 73
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?

A. VMware vCenter Converter
B. VMware vCenter Site Recovery Manager
C. VMware vSphere Replication
D. VMware vSphere Data Protection

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
VMware vSphere data protection advanced can be used for the application quiesce to occur during backup.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1031298

QUESTION 74
Which two statements are true about deploying and using vSphere Replication? (Choose two.)

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

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
To use vSphere Replication between two sites managed by different vCenter Server instances, you must configure a connection between the two vSphere Replication appliances.
You can complete this process on either site on which you have installed a vSphere Replication appliance. If you are using an untrusted certificate, certificate warnings might appear during the process.
Alternatively, you can use vSphere Replication to replicate virtual machines between different ESXi hosts that the same vCenter Server manages. In this case, you deploy only one vSphere Replication appliance and you do not need to connect the primary and secondary sites.
Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.replication_admin.doc%2FGUID-FFBF959C-5C05-42C0-A2FE3688AD55B6EF.html

QUESTION 75
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?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The file-level restore is web-based, so a supported web browser is required.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2016565

QUESTION 76
What are three valid disk configurations for the vSphere Data Protection 6.x Appliance? (Choose three.)

A. 500GB
B. 1TB
C. 1.5TB
D. 2TB
E. 4TB

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
VDP supports these specifications:

▪ Each vCenter Server can support up to 10 VDP appliances.
▪ Each VDP appliance supports backup for up to 100 virtual machines.
▪ Only 1 VDP appliance can exist per ESXi/ESX host.
▪ Support for 0.5 TB, 1 TB, or 2 TB of deduplicated backup data.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2016565

QUESTION 77
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.)

A. Download an ESXi Image.
B. Configure the vSphere Update Manager Download Service.
C. Create a baseline and attach it to the ESXi Host.

D. Scan the vCenter Content Library for the ESXi Image.

E. Remediate the ESXi Host.

Correct Answer: ACE
Section: (none)
Explanation

Explanation/Reference:
Explanation:
First, download an ESXi image. Create a baseline and attach it to the ESXi host. Now remediate the host.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2109711

QUESTION 78
vSphere Update Manager allows which two virtual machine attributes to be upgraded? (Choose two.)

A. Virtual machine firewall policies for NSX.

B. Software Packages in the virtual machine.

C. Virtual machine Hardware Version.

D. VMware Tools Upgrade.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You can upgrade virtual machine hardware version and the VMware tools.
Reference: https://www.vmware.com/support/vsphere5/doc/vsphere-update-manager-50-release-notes.html

QUESTION 79
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.

What step, if taken, might resolve this issue?

A. Increase the value of the config.vpxd.das.electionWaitTimeSec setting.

B. Set the value of vpxd.das.aamMemoryLimit to 256.

C. Set the value of the das.useDefaultIsolationAddress setting to False.

D. Increase the value of the das.iostatsinterval setting.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Set the vCenter Server advanced option config.vpxd.das.electionWaitTimeSec to value=240. Once this change is made, the time outs do not occur.
Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.troubleshooting.doc%2FGUID-A93A0F08-DB77-4850-B87D93CCDF407D8D.html

QUESTION 80
An attempt to enable vSphere Fault Tolerance for a powered-on virtual machine fails.

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

A. The virtual machine has three vCPUs configured.

B. The host on which the virtual machine is running has insufficient memory resources.

C. The virtual machine has insufficient resources to accommodate full reservation plus the overhead memory.

D. VMware High Availability is enabled on the cluster of which this host is a member.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
vSphere Fault Tolerance automatically tries to allocate a full memory reservation on the host for the VM. Overhead memory is required for fault tolerant VMs and can sometimes expand to 1 to 2 GB. If the powered-on VM is running on a host that has insufficient memory resources to accommodate the full reservation plus the overhead memory, trying to turn on Fault Tolerance fails. Subsequently, the Unknown error message is returned.
Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.troubleshooting.doc%2FGUID-C9A5157F-899B-4E6F-BE76BA1AA8091EE3.html

QUESTION 81
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.)

A. Vmkernel interfaces on the switch are still in use.
B. VM Network port group adapters are connected to different switch.
C. Physical NICs are migrated to different switch.
D. VM Network adapters are connected to this switch.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:
Explanation:

You cannot remove the host from the distributed switch or delete the host proxy switch because of the following reasons.

There are VMkernel adapters on the switch that are in use.
There are virtual machine network adapters connected to the switch.

Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.troubleshooting.doc%2FGUID-038AC93F-D710-48ED-8E3B258A23FB2930.html

QUESTION 82
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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
If you experience problems with SIOC or if the number of hosts connected to the datastore has changed since enabling SIOC:
Disable SIOC and save the changes by clicking OK.
Enable SIOC and save the changes.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1022091

QUESTION 83
Which scenario shows a reason for VMware Tools failing to install?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
One of the reasons for VMware tools to fail during installation is that the Guest OS antivirus is blocking the installation thinking it is a malware.

Reference: https://www.vmware.com/pdf/vmware-tools-installation-configuration.pdf

QUESTION 84
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.)

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

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Possible causes of SDRS being disabled might be related to the fact that the virtual machine is a template or the disk is a CD-ROM or an ISO file.

QUESTION 85
What may be a cause for failure to unmount an NFS datastore?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation: vSphere HA heartbeating does not prevent you from unmounting the datastore. If a datastore is used for heartbeating, unmounting it might cause the host to fail and restart any active virtual machine. If the heartbeating check fails, the vSphere Client displays a warning.
Reference: https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc_50%2FGUID-1B56EF97-F60E-4F21-82A78F2A7294604D.html

QUESTION 86
An administrator is troubleshooting basic network connectivity issues.

Which two scenarios are potential issues that this administrator might face? (Choose two.)
A. The vSwitch is not attached to the correct physical network.
B. The portgroup is not configured to use correct VLAN.
C. Traffic shaping is configured incorrectly.
D. Jumbo frames is configured incorrectly.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:

Common network connectivity issues can happen anytime during the operation. The vSwitch is not attached to the correct physical network or the portgroup is not configured to use correct VLAN might be some of the causes that admin has to face during network connectivity. Reference: http://blogs.vmware.com/kb/2013/02/troubleshooting-network-teaming-problems-in-esxesxi.html

QUESTION 87
Why are some virtual machines orphaned after rebooting a High Availability (HA) enabled host?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
If the host is rebooted within an hour after the virtual machines are moved or powered on, the vmInventory.xml file does not persist and hostd does not report these virtual machines as registered on the host. In an HA-enabled cluster, this condition impacts only the virtual machines with HA restart disabled.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003742#reboothostonehour

QUESTION 88
VMware tools is failing to install on a Microsoft Windows virtual machine.

What are two possible situations that would prevent the installation? (Choose two.)
A. The VMware tools installation media is corrupt.
B. The incorrect Operating System was selected in the virtual machine options.
C. The software prerequisites have not been installed.
D. The prerequisite services have not been started.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:

Among the probable causes, one might be that the VMware tools installation media is corrupt or the incorrect OS was selected in the virtual machine options.
Reference:

QUESTION 89
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. A virtual machine question is currently being posed to the administrator.
B. Another task for the virtual machine or other component is already in progress.
C. The VMware High Availability cluster has insufficient resources to guarantee failover.
D. The host has lost access to the storage device containing the virtual machine files. E. The host is under resource contention and unable to power on the virtual machine.

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
It might be that another task for the virtual machine or another component is already in progress or that the Vmware HA cluster has insufficient resources to guarantee failover.
Reference:

QUESTION 90
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.)

A. There is a network I/O constraint.
B. There is a storage I/O constraint.
C. There is insufficient disk space assigned to the virtual machine.
D. The application is not virtualization aware.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
There are two possible causes. One is a network I/O constraint and the other is storage I/O constraint.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2001003

QUESTION 91
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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Processor Power Management (Power Saving, Power Scaling) is impacting application performance on virtual machines.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1018206

QUESTION 92

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.)

A. The vSphere credentials have not been granted permissions.
B. The vSphere credentials are granted read-only permissions.
C. The vSphere credentials are granted no-access permissions.

D. The vSphere credentials are not a member of the local administrator group.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
While the details of authentication and authorization differ between ESX/ESXi and vCenter Server, the model itself is the same for both system. It relies on privileges, roles, and permissions.
Reference: https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.wssdk.pg.doc_50%2FPG_Ch6_Authenticate_Authorize.8.3.html

QUESTION 93
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.)

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

Correct Answer: ABC
Section: (none)
Explanation
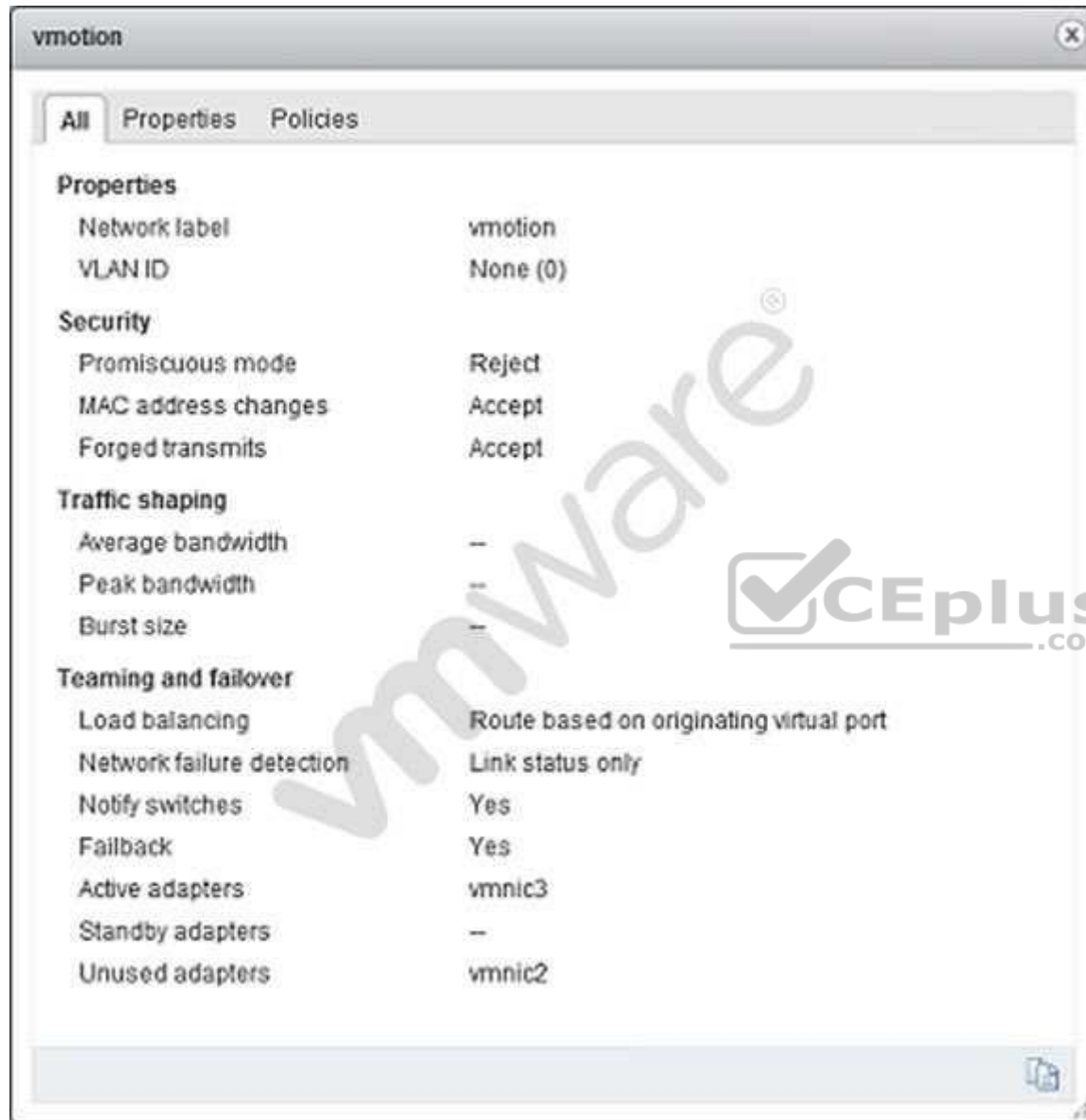
Explanation/Reference:
Explanation:
First verify that the VM disk files are present. Check host and VM log files. Verify vmdk descriptor files and recreate them if required.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1004232

QUESTION 94
Refer to the Exhibit.

vmotion ⊗

| All | Properties | Policies |

Properties

| Network label | vmotion |
| VLAN ID | None (0) |

Security

Promiscuous mode	Reject
MAC address changes	Accept
Forged transmits	Accept

Traffic shaping

Average bandwidth	--
Peak bandwidth	--
Burst size	--

Teaming and failover

Load balancing	Route based on originating virtual port
Network failure detection	Link status only
Notify switches	Yes
Failback	Yes
Active adapters	vmnic3
Standby adapters	--
Unused adapters	vmnic2

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.)

A. The VLAN ID must be set appropriately.
B. The default values for MAC Address Changes and Forged Transmits must be altered.
C. The teaming and failover adapters must be set appropriately.
D. The Traffic Shaping configuration must be altered.
E. The Load Balancing Policy must be set appropriately.

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
First, VLAN ID must be set appropriately. Default values for Mac address changes and forged transmits must be altered and the teaming and failover adapters must be set accordingly. Reference:

QUESTION 95
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.)

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

Correct Answer: ABC

Section: (none)
Explanation

Explanation/Reference:
Explanation:
To remove the host from the switch select manage ports on the vDS along with locating all ports currently in use. Migrate or delete any vmkernel or virtual machine adapters.
Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.troubleshooting.doc%2FGUID-038AC93F-D710-48ED-8E3B258A23FB2930.html

QUESTION 96
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.)

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

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Log in to the vSphere Web Client as a user with permissions on the vCenter Server system.Verify that the vCenter Server system is registered with the same Platform Services Controller as the vSphere Web Client.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2113917

QUESTION 97
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?

A. The host is lacking the CPU resources required to meet the demand.
B. The host is lacking the memory resources required to meet the demand.
C. The virtual machine is lacking the CPU resources required to meet the demand.
D. The virtual machine is lacking the memory resources required to meet the demand.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
A short spike in CPU usage indicates that you are making the best use of the host resources. However, if the value is constantly high, the host is probably lacking the CPU required to meet the demand. Reference:

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.)

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

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The most likely cause might be that the virtual machine is powered off or the host containing the VM is disconnected from the vCenter server.
Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003979

QUESTION 99
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.)

A. Set a CPU reservation for the virtual machine.

B. Increase the CPU limit on the virtual machine.
C. Decrease CPU shares equally for all virtual machines on the host.
D. Increase CPU shares equally for all virtual machines on the host.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:

Set a CPU reservation for the virtual machine and increase the CPU limit on the virtual machine.
Reference:

QUESTION 100
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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You have to create a new VM alarm with an action to run a script that starts with a new instance of the web server.
Reference:

QUESTION 101
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?

https://vceplus.com

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Edit the alarm and select Trigger if All of the following conditions are satisfied.
Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.dcadmin.doc_41/vc_client_help/working_with_alarms/c_condition_and_state_triggers.html

QUESTION 102
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.)

A. DrsEnteringStandbyModeEvent
B. DrsEnteredStandbyModeEvent
C. Event-based
D. Condition-based

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Explanation:
DrsEnteringStandbyModeEvent and Event-based alarms will accomplish the task.
Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.resourcemanagement.doc_40/using_drs_clusters_to_manage_resources/c_monitoring_vmware_dpm.html

QUESTION 103
Which two SMTP Notification Event Details are specific to alarms triggered by events? (Choose two.)

A. User Name
B. Summary
C. Old Status
D. Target

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Explanation:
SMTP notification event details users username and summary to send email when the alarms are sounded off by events.
Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.dcadmin.doc_41/vc_client_help/working_with_alarms/c_email_notifications_as_alarm_actions.html

QUESTION 104
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?

A. Badges do not appear until you register vRealize Operations with vCenter Server.
B. Badges do not appear until you register a vCenter Server in vRealize Operations.
C. The vRealize Operations appliance needs to be redeployed.
D. The vCenter Server appliance needs to be redeployed.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
If the badges are not appearing, check if you registered vRealize operations with vcenter server.
Reference: https://www.vmware.com/support/vrops/doc/vrops-60-release-notes.html

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?

A. Time Remaining badge
B. Compliance badge
C. Reclaimable Waste badge
D. Density badge

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You need to monitor time remaining badge to ensure virtual machine doesn't run out of resources.
Reference: http://blogs.vmware.com/tam/files/2015/02/vRealize-Operations-5.8-Guide1.pdf

QUESTION 106

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

A. Use the Scoreboard tab
B. Use the Relationship tab
C. Use the Members tab
D. Use the Overview tab

Correct Answer: A
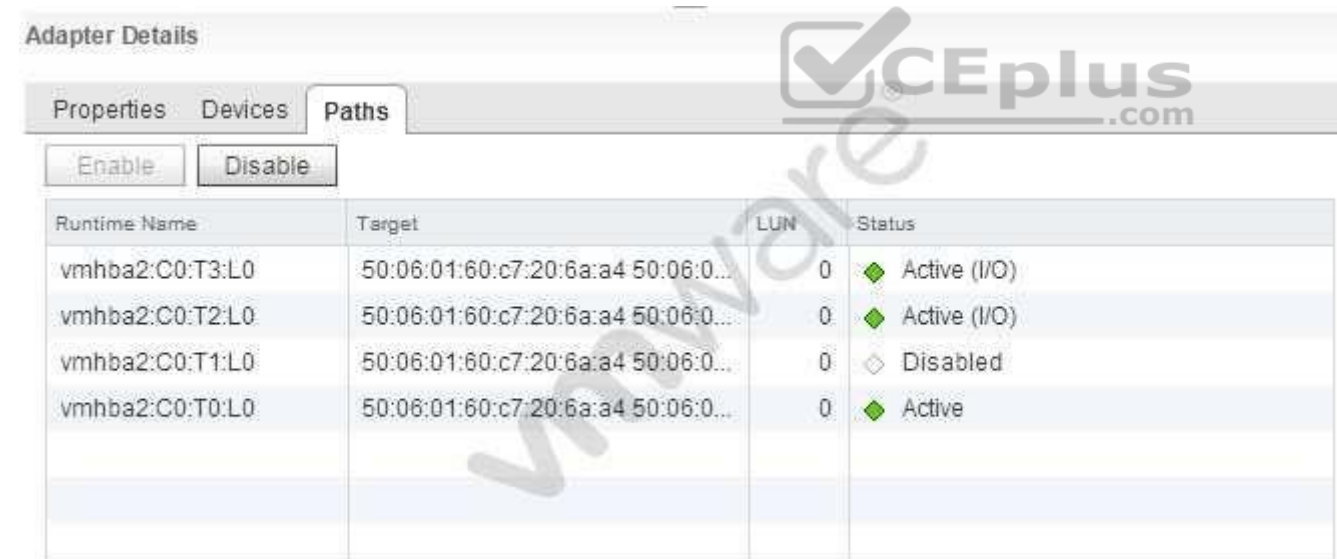**Section: (none)**
Explanation
Explanation/Reference:
Explanation:
Use scoreboard tab to compare the badge values of related child objects.
Reference: http://blogs.vmware.com/management/2014/08/david-davis-vcenter-operations-post-14-capacity-analysis-virtual-machines.html

QUESTION 107
Refer to the Exhibit.

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?

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

Correct Answer: C
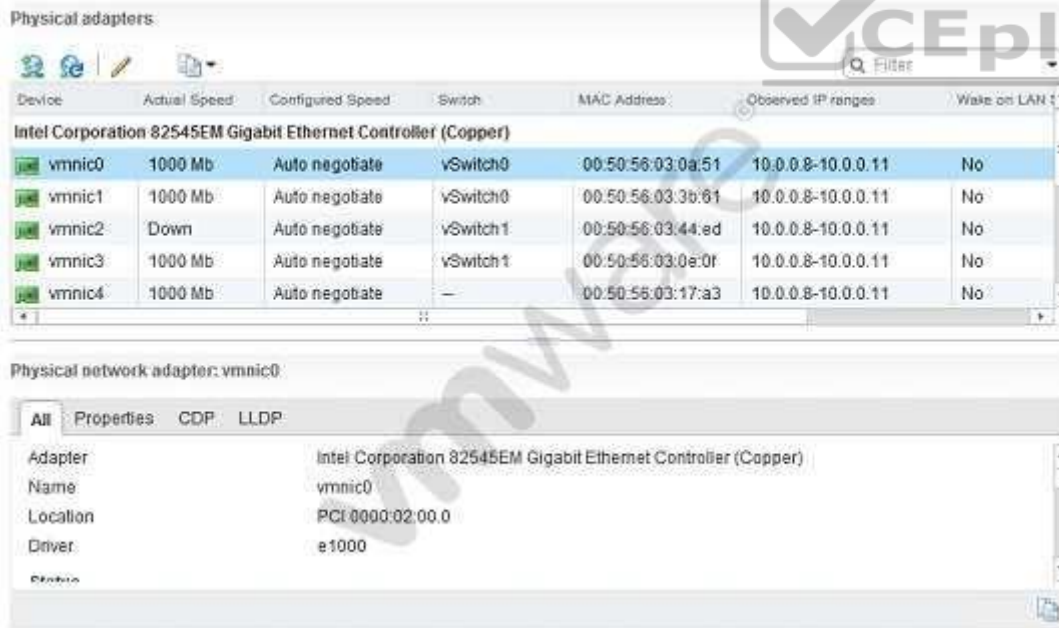**Section: (none)**
Explanation

Explanation/Reference:
Explanation:
The cause might be that not all links are used because a path is disabled as you can see in the third row.
Reference:

QUESTION 108
Refer to the Exhibit.

Physical adapters

<table>
<tr><td>Device</td><td>Actual Speed</td><td>Configured Speed</td><td>Switch</td><td>MAC Address</td><td>Observed IP ranges</td><td>Wake on LAN</td></tr>
<tr><td colspan="7">Intel Corporation 82545EM Gigabit Ethernet Controller (Copper)</td></tr>
<tr><td>vmnic0</td><td>1000 Mb</td><td>Auto negotiate</td><td>vSwitch0</td><td>00:50:56:03:0a:51</td><td>10.0.0.8-10.0.0.11</td><td>No</td></tr>
<tr><td>vmnic1</td><td>1000 Mb</td><td>Auto negotiate</td><td>vSwitch0</td><td>00:50:56:03:3b:61</td><td>10.0.0.8-10.0.0.11</td><td>No</td></tr>
<tr><td>vmnic2</td><td>Down</td><td>Auto negotiate</td><td>vSwitch1</td><td>00:50:56:03:44:ed</td><td>10.0.0.8-10.0.0.11</td><td>No</td></tr>
<tr><td>vmnic3</td><td>1000 Mb</td><td>Auto negotiate</td><td>vSwitch1</td><td>00:50:56:03:0e:0f</td><td>10.0.0.8-10.0.0.11</td><td>No</td></tr>
<tr><td>vmnic4</td><td>1000 Mb</td><td>Auto negotiate</td><td>—</td><td>00:50:56:03:17:a3</td><td>10.0.0.8-10.0.0.11</td><td>No</td></tr>
</table>

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
Status	

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?

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

Correct Answer: B
Section: (none)
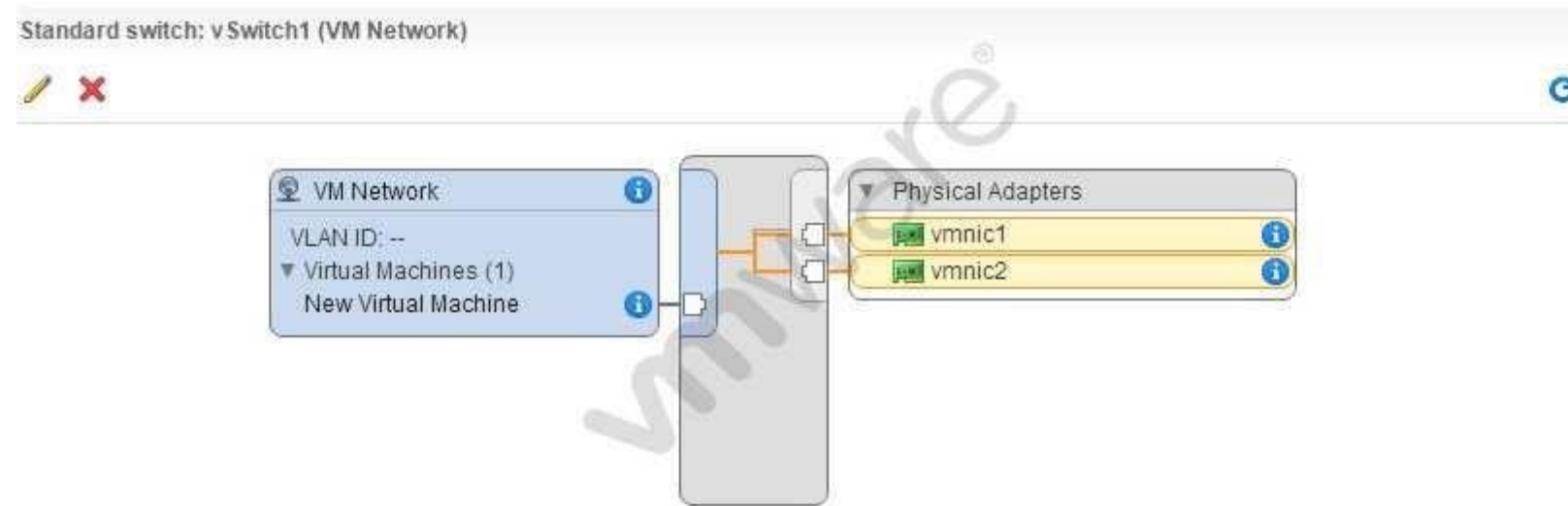**Explanation**

Explanation/Reference:
Explanation:
The exhibit clearly shows that the vmnic2 is not connected to the physical switch that is why it is showing the down warning.
Reference:

QUESTION 109
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**?

A. The virtual machine will communicate on both uplinks
B. The virtual machine will only communicate on vmnic1
C. The virtual machine will only communicate on vmnic2
D. The virtual machine will fail to communicate externally

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The virtual machine will fail to communicate externally because it seems that the connection to the physical adapters is not right.
Reference:

QUESTION 110
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.)

A. Create the new ODBC from the **UserDSN** tab.
B. Select **SQL Server authentication**.
C. Select **Integrate Windows authentication**.
D. Create the new ODBC from the **SystemDSN** tab.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Explanation:

To create a new SQL Server ODBC connection, click Add, select SQL Native Client, and click Finish.
Type an ODBC data source name (DSN) in the Name text box.
For example, VMware vCenter Server.
(Optional) Type an ODBC DSN description in the Description text box.

Select the server name from the Server drop-down menu.

Type the SQL Server host name in the text box if it is not in the drop-down menu.

Select an authentication method.

▪ Integrate Windows authentication.

Additionally, you can also enter the Service Principal Name (SPN).

Important

You cannot use this option if the vCenter Server service is running under the Microsoft Windows built-in system account.

▪ SQL Server authentication.

Type your SQL Server login name and password.

Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc%2FGUID-E83D153B-F6DB-4355-8806357C8E1F01CF.html

QUESTION 111

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?

A. kernelLatency
B. networkRate
C. deviceLatency
D. queueLatency

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 112

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.)

A. The domain name is written correctly.
B. The date format is written incorrectly.
C. The LUN identifier is in the wrong location.

D. The date is in the wrong location.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:
Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.server_configclassic.doc_40/esx_server_config/introduction_to_storage/c_understanding_iscsi_naming_and_addressing.html

QUESTION 113
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.)

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

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference: