vce trainer



Reference Solution for 2V0-620.examcollection.premium.exam.191q

2V0-620

2V0-620

vSphere 6 Foundations Exam

Version 14.0

Score: 800/1000

Version:

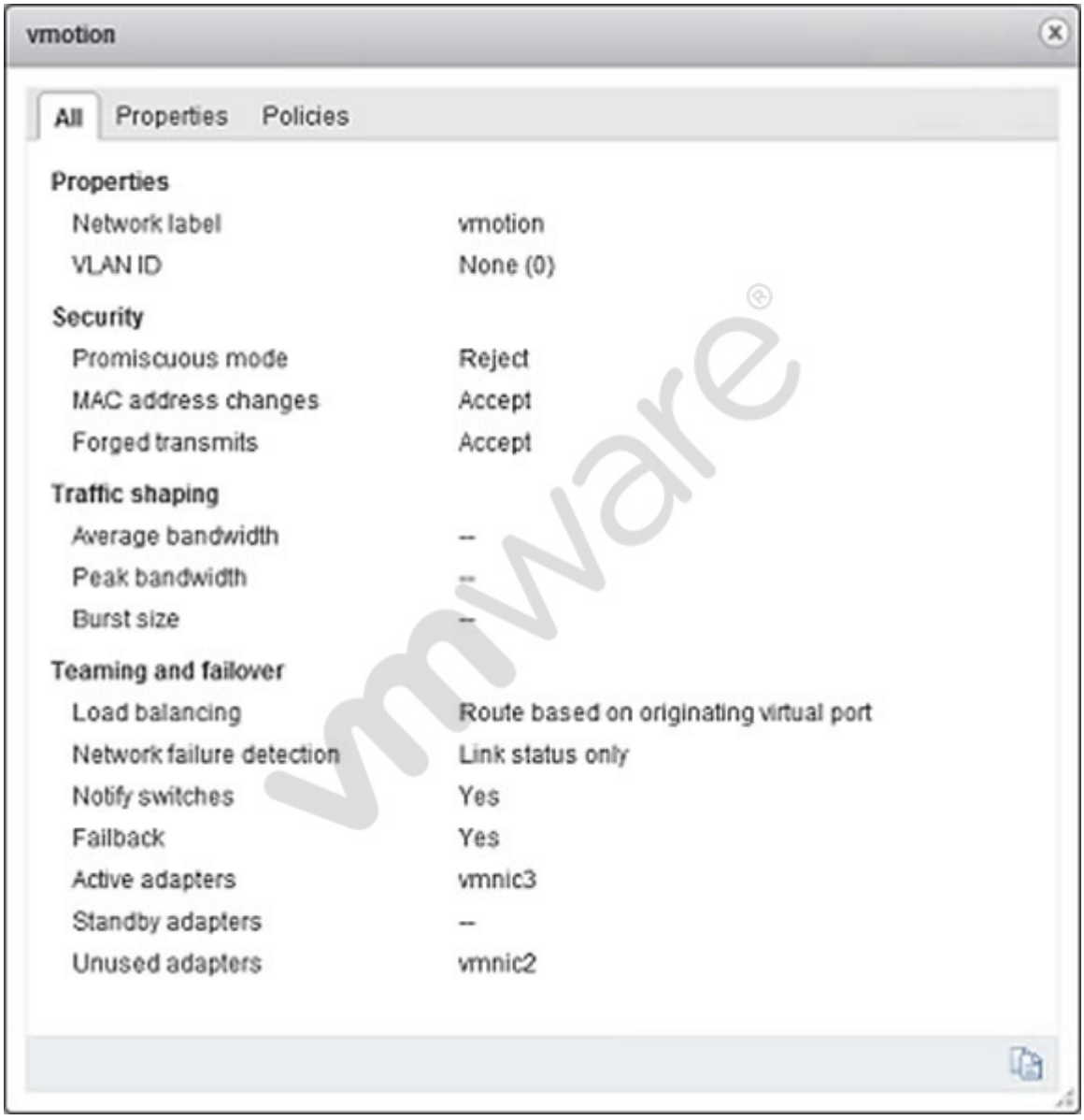
Time Limit: 120 Minutes

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Exam A (191 questions)

Question 1

Refer to the Exhibit.



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

Provide Network Redundancy

Use VLAN 550

Be secured against anyone trying to spoof communication

The�vSwitch1�configuration is�shown in the�Exhibit.

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

☒ The VLAN ID must be set appropriately.

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

Explanation:

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 2

When attempting to power on a virtual machine, the following error message is shown:

Unable to access a file since it is locked

What are two actions that can be taken to address this situation? (Choose two.)

- ☒ Investigate only the logs for the virtual machine.
- ☐ Investigate the logs for both the host and the virtual machine.
- ☐ Power off the other virtual machines on the host, then retry the operation.
- ☒ Reboot the host the virtual machine is running on.

Question 3

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

VM configuration:
2GHz CPU reservation
1GB Memory limit

Resource Pool configuration:
6GHz CPU reservation
1GB Memory reservation
No limit to memory

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

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

Explanation:

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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 4

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

The web server should be added to the application when the primary web server reaches:
70% vCPU utilization
55% active memory

Which option will achieve this result?

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

Explanation:

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 5

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

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

Explanation:

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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 6

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

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

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

Explanation:

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-BE76-BA1AA8091EE3.html

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Question 7

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

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

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

Explanation:

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 8

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

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

Explanation:

Explanation:

A root resource pool is automatically created using the aggregate total of the ESXi host resources in the cluster.

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Reference: https://www.vmware.com/pdf/vmware_drs_wp.pdf

Question 9

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

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

Explanation:

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 10

An administrator is monitoring a fully automated vSphere cluster configured with HA, DRS, DPM and EVC. The administrator notices that the cluster has a greater than expected load imbalance.

Why is this happening?

- ☒ The DRS Migration Threshold is not aggressive enough.
- ☐ The EVC baseline is masking too many CPU features.
- ☐ The HA VM Restart Priority is set too high for several virtual machines.
- ☐ The DPM Threshold is not aggressive enough.

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/5.5/com.vmware.vsphere.troubleshooting.doc/GUID-0C132C85-E7BF-445E-925D-31420A06B01C.html

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Question 11

An organization has a number of virtual machines that would benefit from Fault Tolerance. These include: ?
A?single?vCPU Apache?Server
A?dual?vCPU vCenter Server
A?quad?vCPU SQL?Server
An?eight?vCPU Hadoop Server
?
Which two virtual machines can be configured to use VMware Fault Tolerance? (Choose two.)

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

Explanation:

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 12

An administrator has?configured?an alarm to?be?notified?when a virtual machine?meets either of these conditions:
High virtual CPU
High active memory consumption. ?
?
The alarm is?only?triggering when both of the conditions are met. ?

What can be done to correct the alarm behavior?

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

Explanation:

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

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Question 13

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

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

Explanation:

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-4355-8806-357C8E1F01CF.html

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Question 14

A vApp named Sales has a Memory Limit of 32 GB and a CPU Limit of 12,000 MHz. There are three virtual machines within the vApp:
Sales-DB -- Has a memory reservation of 20 GB.
Sales-DC -- Has a memory reservation of 8 GB.
Sales-Web -- Has a memory reservation of 8 GB.

Which statement is correct?

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

Explanation:

Explanation:

As per the scenario, only two of the three virtual machines can power on.

Question 15

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

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

Explanation:

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

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Question 16

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

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

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

Explanation:

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 17

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

Which action would you take to accomplish this task?

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

Explanation:

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/

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Question 18

A High-Availability (HA) cluster is-configured-to-respond to-a given-number of host failures.-The cluster contains-virtual machines configured with these settings:
VM1 has a 1GHz CPU reservation and no Memory reservation
VM2 has a 2GHz CPU reservation and no Memory reservation
VM3 has no CPU reservation and no Memory reservation

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

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

Explanation:

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 19

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

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

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

Explanation:

Explanation:

This DCUI interface offers the following:

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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

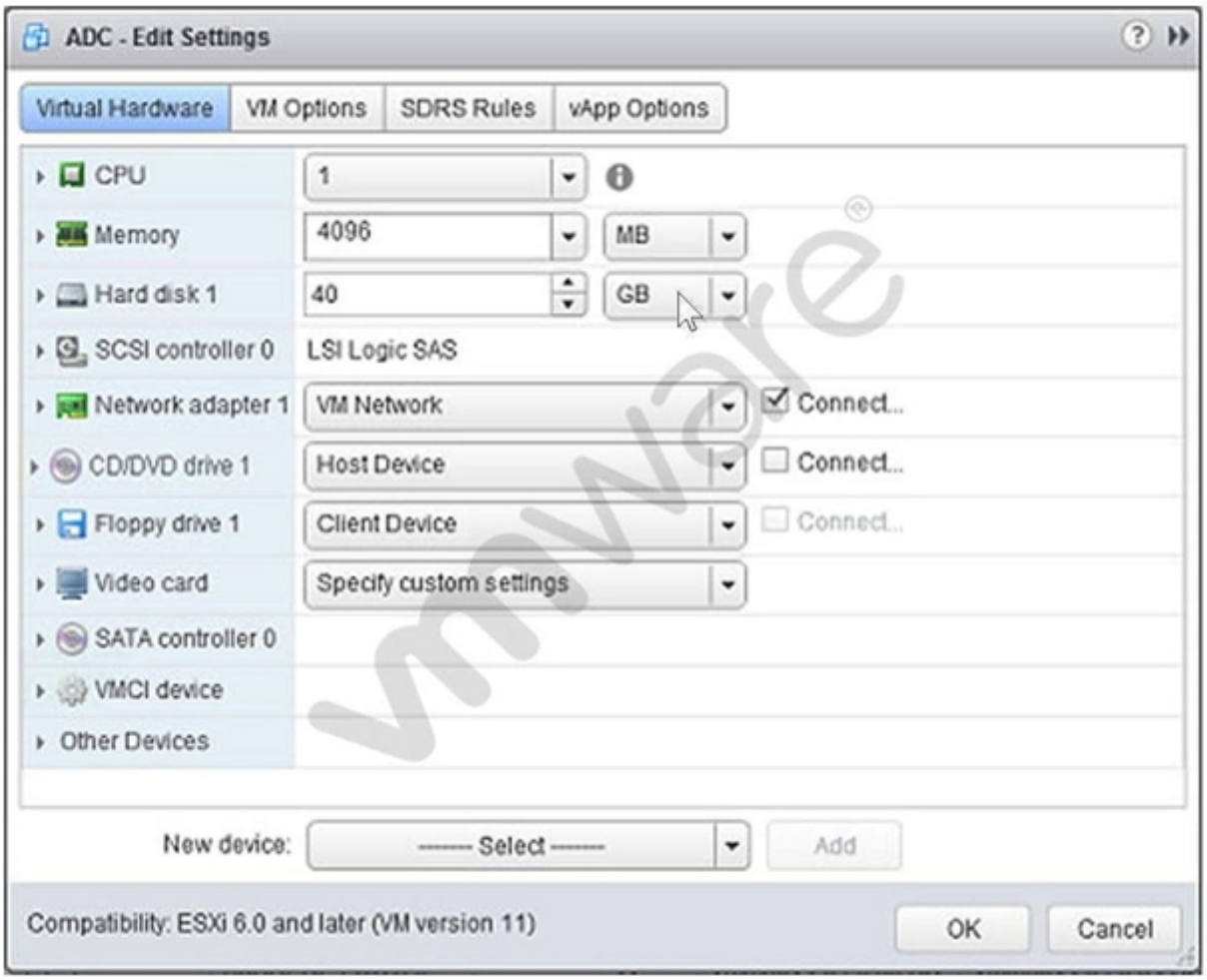
Shutdown or Restart /Reboot the ESXi Server

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

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Question 20

An administrator is installing Windows into a virtual machine using an image housed in a VMFS datastore. A DVD and a NIC have both been configured on an ESXi 6.x Host and can be used for boot purposes, as shown in the Exhibit. The DVD device is first in the boot order.



Based on the Exhibit, when the host is booted, why would it attempt to search for a PXE server?

- ☐ The kickstart.cfg file was not found.
- ☐ The CD/DVD device is not set to Host Device.
- ☐ The nic is not PXE enabled.
- ☒ The CD/DVD device is not connected.

Explanation:

It looks like the CD/DVD device is not connected. Restart the machine and recheck again. When the system doesn't find CD/DVD drive, it looks for PXE server to boot.

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Question 21

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

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

Explanation:

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 22

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

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

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

Explanation:

Explanation:

The Direct Console User Interface (DCUI) allows you to interact with the host locally using text-based menus. You can use the Direct Console User Interface to enable local and remote access to the ESXi Shell.

Reference: https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc_50%2FGUID-94F0C54F-05E3-4E16-8027-0280B9ED1009.html

Question 23

What is the effective vSphere licensing level during the 60 day evaluation period?

- ☐ vSphere Foundation Essentials Plus
- ☐ vSphere Standard
- ☐ vSphere Enterprise
- ☒ vSphere Enterprise Plus

Explanation:

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Explanation:

The evaluation mode provides the set of features equal to a vSphere Enterprise Plus license. Before the evaluation mode expires, you must assign to your hosts a license that supports all the features in use.

Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc%2FGUID-17862A54-C1D4-47A9-88AA-2A1A32602BC6.html

Question 24

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

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

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

Explanation:

Explanation:

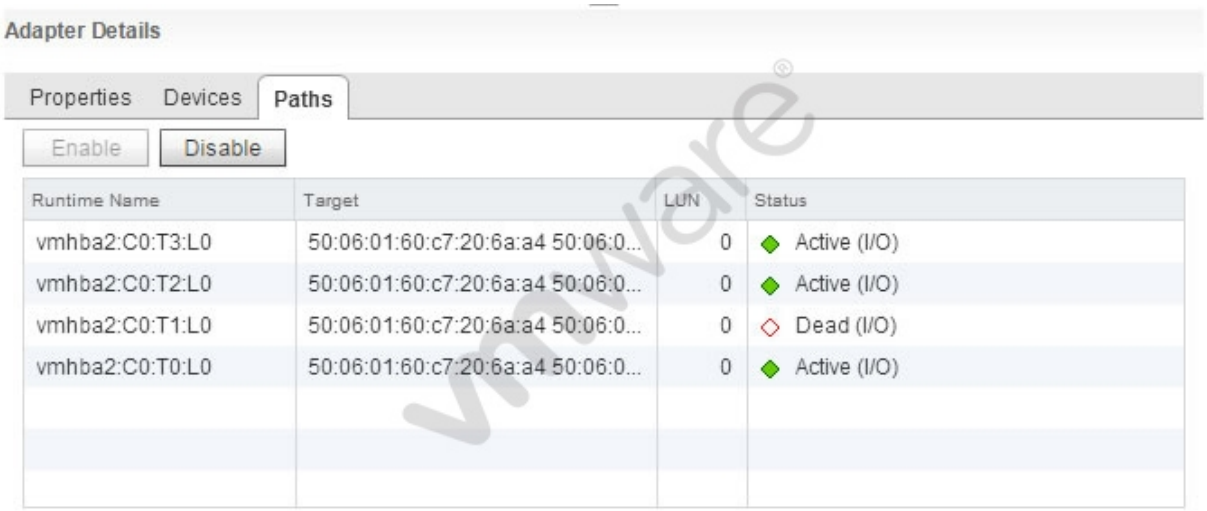
VMware vSphere data protection advanced can be used for the application quiesce to occur during backup.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1031298

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Question 25

Refer to the Exhibit.



A storage administrator is not seeing full utilization of all bandwidth from an ESXi host. The vSphere administrator observes the adapter details, as shown in the Exhibit.

What is the probable cause of this issue?

- ☐ Another path needs to be used to allow full utilization of the bandwidth.
- ☐ The array is not setup to use the correct multipathing policy.
- ☐ There are no virtual machines on the host.
- ☒ No traffic is being sent across it because a path failed.

Explanation:

Explanation:

It seems that no traffic is being sent across it due to the path that has failed.

Reference:

Question 26

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

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

Explanation:

Explanation:

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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 27

An administrator is virtualizing a physical application server and adding it to an existing multi-tiered vApp. The application license is currently tied to the physical NIC's MAC address, so the administrator needs to ensure the license will function properly in the virtual machine.
��
Which two actions can the administrator take to satisfy this task? (Choose two.)

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

Explanation:

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 28

An administrator is trying to open a remote console session to a virtual machine using the vSphere Web Client. With each attempt, an error message is displayed that reads:

HTTP ERROR 404

What is the most likely cause for the error?

- ☐ Port 902 is blocked by the firewall.
- ☐ Another program or process is using port 903.
- ☐ Outgoing UDP is enabled for port 902 on the firewall.
- ☒ Another program or process is using port 9443.

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.troubleshooting.doc/GUID-8536C14F-4D4F-4674-846E-08BE321B7A11.html

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Question 29

Which type of Adapter does not require vmkernel networking?

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

Explanation:

Explanation:

Independent Hardware iSCSI adapter does not require vmkernel networking.

Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-C476065E-C02F-47FA-A5F7-3B3F2FD40EA8.html

Question 30

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

What is the likely reason for this failure?

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

Explanation:

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.

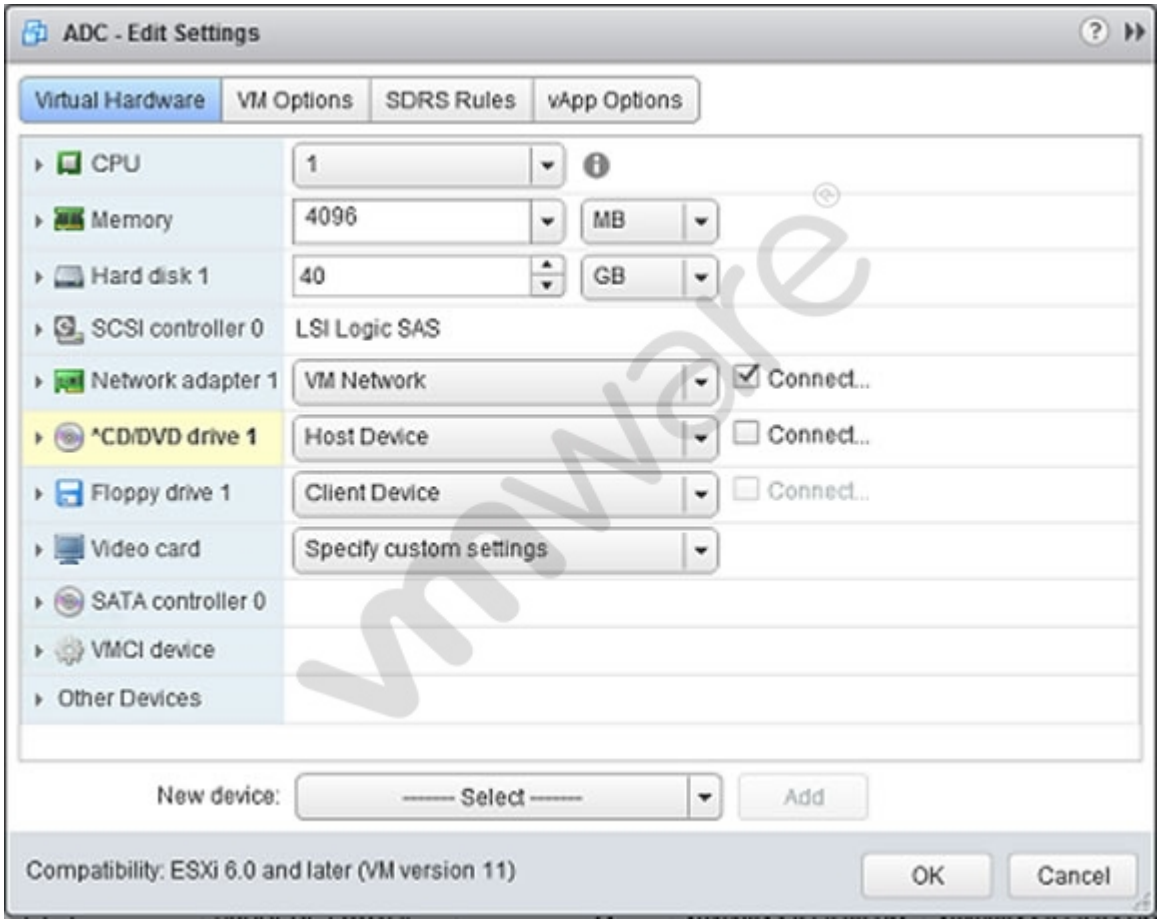
Enable SIOC and save the changes.

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

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Question 31

Refer to the Exhibit.



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

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

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

Explanation:

Explanation:

It looks like the CD/DVD device is not connected. Restart the machine and recheck again. When the system doesn't find CD/DVD drive, it looks for PXE server to boot.

Reference:

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Question 32

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

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

Explanation:

Explanation:

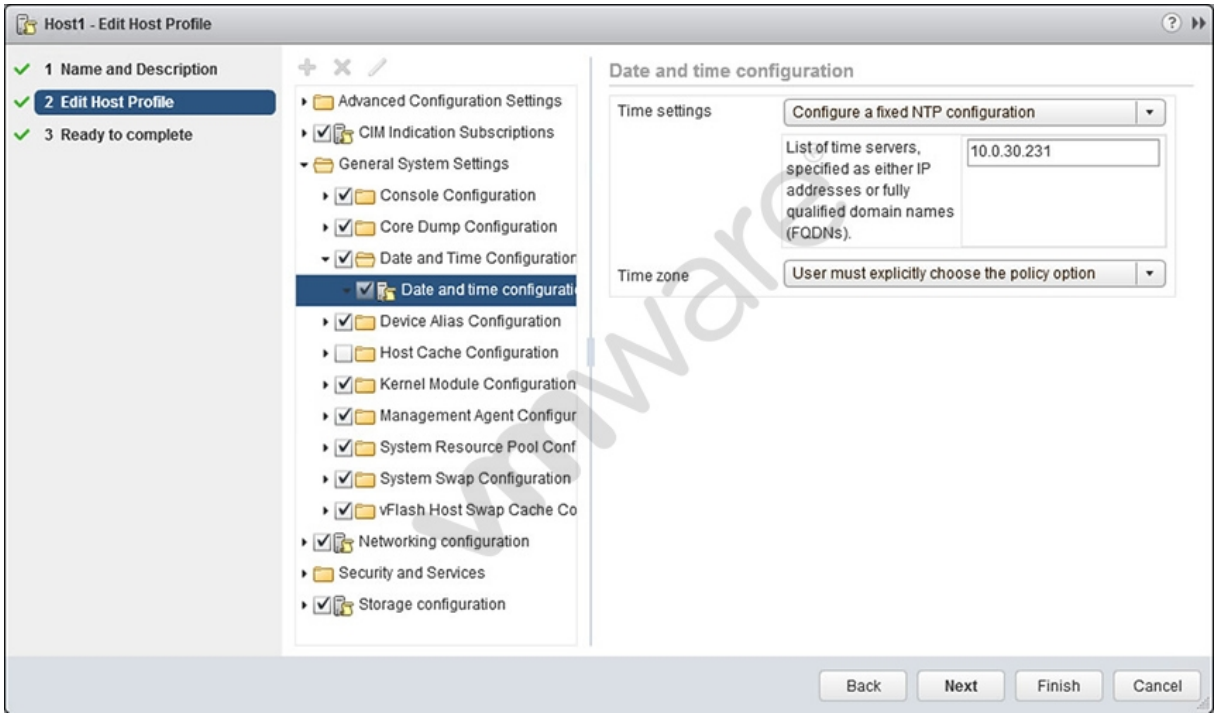
You can modify MTU values in switch settings.

Reference: https://kb.vmware.com/selfservice/microsites/search.do%3Flanguage%3Den_US%26cmd%3DdisplayKC%26externalId%3D1010557

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Question 33

Refer to the Exhibit.



An administrator has configured a host profile so that ESXi 6.x hosts will point to the corporate NTP server for time synchronization. The NTP server is located at 10.0.30.213, but time has not been synchronized properly across the ESXi hosts.

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

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

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

Explanation:

Explanation:

To resolve the issue, correct the NTP server IP address (it doesn't look right), and remediate the host based on the updated host profile.

Reference:

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Question 34

An administrator deploys vCenter Server using the embedded Platform Services Controller. After testing the deployment for a couple of months, it is determined that the environment would be better served with an external Platform Services Controller.

What should the administrator do to meet this new requirement?

- ☐ Deploy a fresh instance of vCenter Server with an external Platform Services Controller.
- ☐ Perform a fresh install of an external Platform Services Controller
- ☐ Migrate the embedded Platform Services Controller to an external Platform Services Controller.
- ☒ Upgrade the embedded Platform Services Controller to an external Platform Services Controller.

Explanation:

Explanation:

To meet the requirement, upgrade the embedded platform services controller to an external platform services controller

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2113115

Question 35

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

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

Explanation:

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

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Question 36

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

What is a likely cause of this behavior?

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

Explanation:

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 37

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

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

Explanation:

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-8D73-FE25454C642E.html

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Question 38

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

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

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

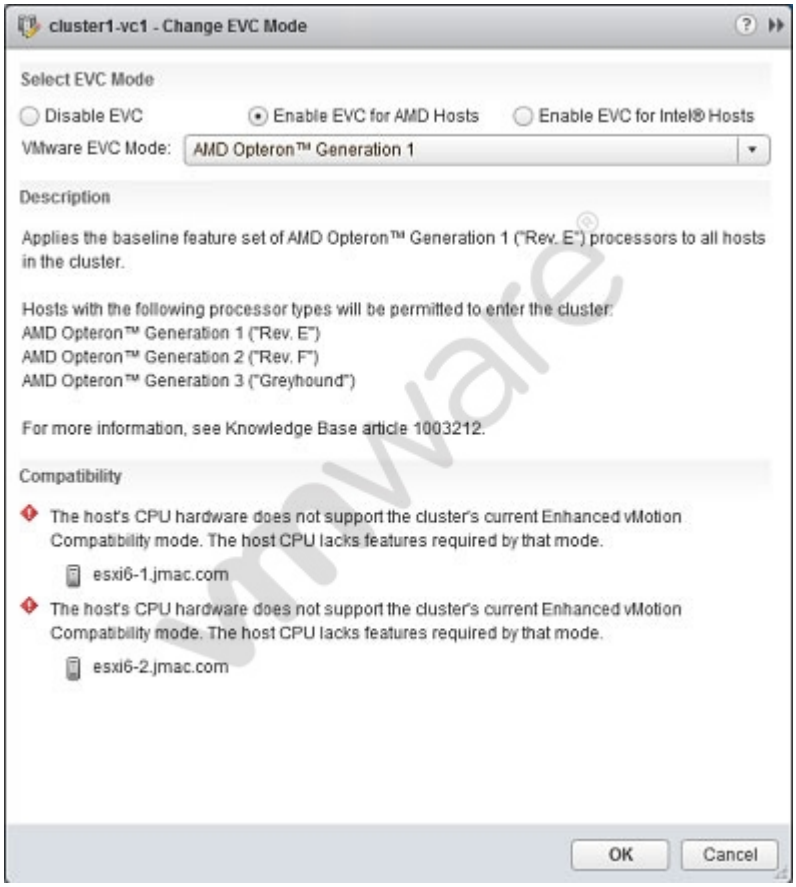
Explanation:

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

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Question 39

Refer to the Exhibit.



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

What is the likely cause of this error?

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

Explanation:

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

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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 40

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

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

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

Explanation:

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-8E3B-258A23FB2930.html

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Question 41

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

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

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

Explanation:

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-BB7B-3671AB855D7E.html

Question 42

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

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

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

Explanation:

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

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Question 43

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

What action do you need to take to correct this?

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

Explanation:

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 44

What are three changes that could result in a Network rollback operation? (Choose three.)

- ☐ Blocking all ports in a Virtual Machine Portgroup.
- ☒ Changing the MTU of a distributed switch.
- ☒ Updating the VLAN of the management VMkernel network adapter.
- ☐ Disconnecting the cable from the physical NIC.
- ☒ Changing the IP settings of management VMkernel network adapters.

Question 45

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?

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

Explanation:

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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 46

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

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

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

Explanation:

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/

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Question 47

A vApp template recently added to a Content Library is not displayed.
�
Which two actions could correct this problem? (Choose two.)

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

Explanation:

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-4E46-8BBF-76229AEA7220.html

Question 48

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

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

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

Explanation:

Explanation:

To configure virtual san cluster to coexist with older cluster, you need to change the default multicast address on the netw virtual san cluster and change the default unicast address on the new virtual san cluster.

Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-5656EA30-F7C7-494C-A356-E1471942625A.html

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Question 49

When attempting to power on a Virtual Machine you observe the following error:
��
Cannot open the disk '/vmfs/volumes/volume/vm/vm-000002.vmdk'�or one of the snapshot disks it depends on.
��
Which three actions will be the best solutions to address this problem? (Choose three.)

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

Explanation:

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 50

An administrator is configuring load balancing for a vSphere 6.x deployment. The administrator wants optimal load distribution, but the network team has established that no changes can be made to the physical network.

What load balancing meets the stated requirements?

- ☐ Route based on Mac hash.
- ☐ Route based on IP hash.
- ☒ Route based on the originating virtual port.
- ☐ Route based on physical virtual port.

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.networking.doc/GUID-A4F1BF4B-8199-45A1-9578-1E4B6B08DAB0.html

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Question 51

Refer to the Exhibit.



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

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

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

Explanation:

Explanation:

It seems like this virtual machine will run out of memory before April 27 as the graph dips down in the beginning of the image in exhibit.

Reference:

Question 52

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

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

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

Explanation:

Explanation:

You can install ESXi 6.x using DVD drive, USB flash drive or PXE.

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Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2109708

Question 53

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

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

Explanation:

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 54

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

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

Explanation:

Explanation:

On a nw host cluster, high availability, distributed resource scheduling and virtual SAN can be enabled.

Reference: https://pubs.vmware.com/vsphere-55/topic/com.vmware.vsphere.storage.doc/GUID-D68890D8-841A-4BD1-ACA1-DA3D25B6A37A.html

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Question 55

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

Where is the ESXi host IP address configured?

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

Explanation:

Explanation:

Access Direct Console User Interface to configure ESXi host IP address.

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

Question 56

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

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

Explanation:

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

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Question 57

A virtual machine is experiencing performance issues. The following performance metrics are observed:
CPU usage value for the virtual machine is above 90%
CPU ready value for the virtual machine is above 20%

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

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

Explanation:

Explanation:

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

Reference:

Question 58

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

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

Explanation:

Explanation:

vC Ops has 3 major badges and their status depends on the minor badges whose scores get rolled up to make up the major badges. Those 3 major badges are Health, Risk, and Efficiency. Each of these 3 badges are weighted combinations of minor badges. Thus, the major badges are the color and numerical score that they are because of the status of the minor badges that they are summarizing.

Reference: http://blogs.vmware.com/management/2014/04/david-davis-on-vcenter-operations-post-8-understanding-vcenter-operations-badges.html

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Question 59

When attempting to access a virtual machine, an administrator is unable to login using the vSphere credentials. ?
??
What two options are probable causes of the authentication failure? (Choose two.)

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

Explanation:

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 60

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

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

Explanation:

Explanation:

When managing your resources, you should be aware of what your goals are.

In addition to resolving resource overcommitment, resource management can help you accomplish the following:

Performance Isolation—prevent virtual machines from monopolizing resources and guarantee predictable service rates.

Efficient Utilization—exploit undercommitted resources and overcommit with graceful degradation.

Easy Administration—control the relative importance of virtual machines, provide flexible dynamic partitioning, and meet absolute service-level agreements.

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

Question 61

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

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

Explanation:

Explanation:

To enable vFlash Read cache for VM virtual disk, enter a value in virtual flash read cache text box and enable virtual flash host swap ache check box.

Reference: http://www.yellow-bricks.com/2013/08/26/introduction-to-vsphere-flash-read-cache-aka-vflash/

Question 62

An administrator is only able to see the Health Badge when using the vRealize Operations user interface.
What is the likely cause of this behavior?

- ☒ The vRealize Operations Foundation License is in use.
- ☐ The vmware-sps service failed to start.
- ☐ The vRealize Operations Standard License is in use.
- ☐ The vmware-rbd-watchdog service failed to start.

Explanation:

Explanation:

It seems that the vRealize operaitons foundation license is in use.

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Question 63

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

How can this action be accomplished?

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

Explanation:

Explanation:

For security banner, configure Advanced settings and go to Annotations screen of the ESXi host.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2046347

Question 64

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

Which condition could be responsible for the loss of data?

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

Explanation:

Explanation:

It clearly shows that the reset event log was executed that's why data is available for 24 hours only.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2061093

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Question 65

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

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

Explanation:

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-BE1B-0FDCD6575725.html

Question 66

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

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

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

Explanation:

Explanation:

The latency can be caused by FT network having insufficient bandwidth and is running on a 1 GB link or the network is on a particularly high latency risk. The other reason might be that the FT network has been configured with network I/O control.

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Reference:

Question 67

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

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

Explanation:

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 68

An administrator is tasked with performing a vMotion migration of a virtual machine. The virtual machine is configured as follows:
vSphere Flash Read Cache (vFRC) enabled
Is part of a Distributed Resource Cluster (DRS) Cluster

Which two statements are true? (Choose two.)

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

Explanation:

Explanation:

Each ESXi host in the culster supports one virtual flash resource. Secondly, DRS treats powered-on virtual machines with Flash Read Cache as having a preferred affinity to the current host.

Reference: http://www.yellow-bricks.com/2013/09/11/frequently-asked-questions-vsphere-flash-read-cache/

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Question 69

A company has decided to implement Virtual SAN within their vSphere 6.x environment. The Virtual SAN cluster will be composed of three ESXi 6.x hosts that are on the Virtual SAN Ready Node list.
Each ESXi host includes:
Two SAS Controllers that support Passthrough Mode
Four Solid State Drives (SSDs) 1TB in size each
20 SAS Magnetic Disks (MDs) 1TB in size each
The SSDs and MDs are evenly split between the two SAS controllers
The company will pilot a Virtual SAN cluster utilizing VMware best practices while maximizing storage capacity. The Virtual SAN cluster will use Manual Mode.

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

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

Explanation:

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 70

An administrator is installing a new network card in an ESXi 6.x host that is part of a vSphere cluster When the host is placed into maintenance mode, the vSphere Web Client displays the progress bar at 2% for over 30 minutes.

Which two are likely reasons for this occurrence? (Choose two.)

- ☒ Maintenance mode is unable to migrate all virtual machines from the host.
- ☒ There is a large number of virtual machines that must be migrated from the host.
- ☐ VMware High Availability is in the process of reconfiguring the cluster.
- ☐ Each virtual machine on the ESXi host must be reconfigured to recognize the new adapter.

Explanation:

Explanation:

The maintenance mode is unable to migrate all virtual machines from the host. There is a large number of VM s that must be migrated first.

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Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1005241

Question 71

An administrator is troubleshooting basic network connectivity issues.

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

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

Explanation:

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 72

An administrator is configuring the Failover Order option on a vSphere Distributed Switch.

Which two options should be used with IP-hash load balancing? (Choose two.)

- ☒ Active Uplinks
- ☐ Standby Uplinks
- ☒ Unused Uplinks
- ☐ Override Failover Order

Explanation:

Explanation:

Active Uplinks, and Unused adapter Uplinks are used with IP hash load balancing.

Reference: https://books.google.com.pk/books?id=35TE4cSycNAC&pg=PA201&lpg=PA201&dq=IP+hash+load+balancing+active+uplinks+unused+uplinks&source=bl&ots=ggg8VOCpw4&sig=EaqvN49-p2UWQ5b6V53SkFFmJhc&hl=en&sa=X&ved=0ahUKEwiv1ruEhMbNAhVGL48KHfXaBN4Q6AEIUzAJ#v=onepage&q=IP%20hash%20load%20balancing%20active%20uplinks%20unused%20uplinks&f=false

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Question 73

An administrator is editing the management network configuration of an ESXi 6.x host from the vSphere Web Client, but mistakenly puts the incorrect VLAN in place for the management network.

What action do you need to take to correct this?

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

Question 74

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

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

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

Explanation:

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

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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-direct-console-user-interface-dcui.html

Question 75

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

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

Explanation:

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 76

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

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

Explanation:

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

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Question 77

Users of an application are reporting performance issues. The following performance values are observed in the vSphere Web Client:
Host CPU utilization is 90%
Virtual Machine memory utilization is consistently greater than 90%
CPU Ready values are higher than 20%

What could be the cause of the application performance issue?

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

Explanation:

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 78

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

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

Explanation:

Explanation:

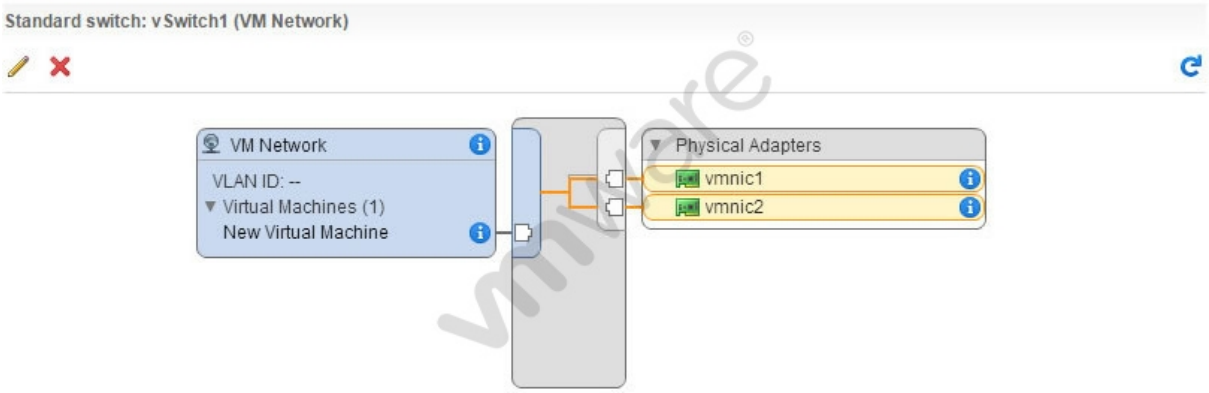
The available range is from 15 minutes to 24 hours.

Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.replication_admin.doc%2FGUID-C249300C-2BC0-4128-88B5-046C3DE6BC5B.html

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Question 79

Refer to the Exhibit.



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

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

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

Explanation:

Explanation:

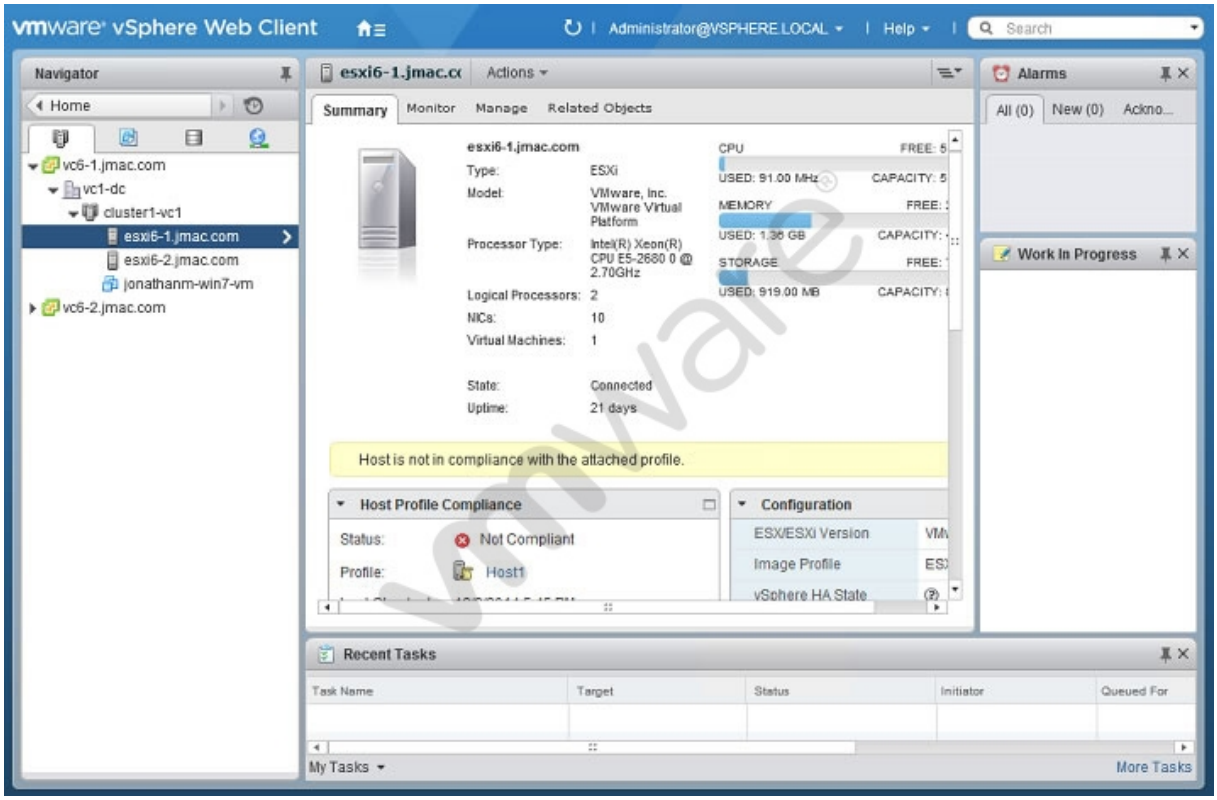
The virtual machine will fail to communicate externally because it seems that the connection to the physical adapters is not right.

Reference:

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Question 80

Refer to the Exhibit.



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

During a change control window, the warning was addressed.

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

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

Explanation:

Explanation:

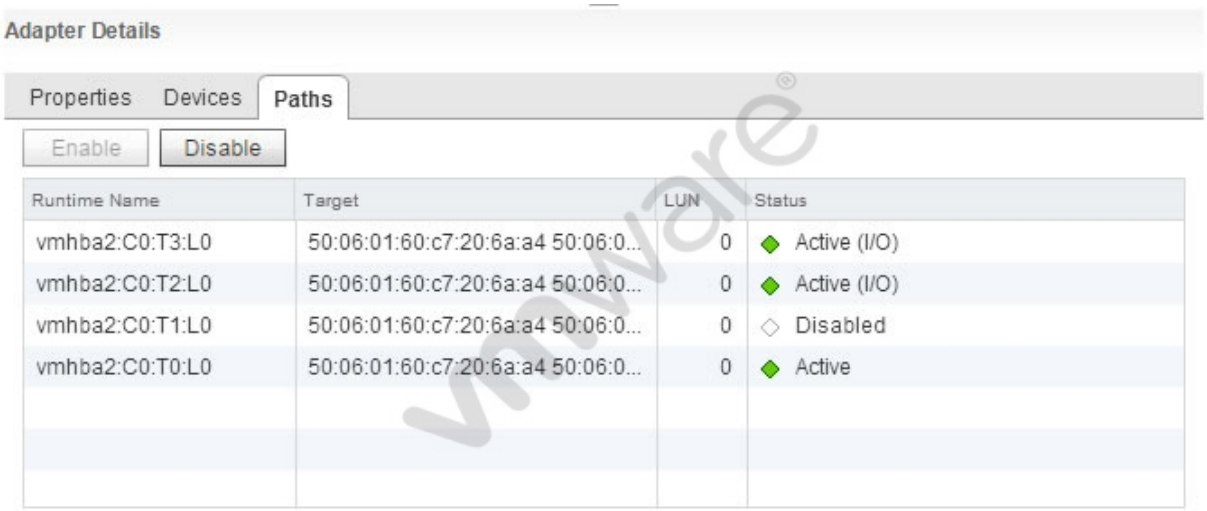
To make sure the host is no longer showing the warning, recheck the compliance of the host.

Reference:

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Question 81

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?

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

Explanation:

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:

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Question 82

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

STOP 0x0000007B INACCESSIBLE_BOOT_DEVICE

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

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

Explanation:

Explanation:

It might be the incorrect SCSI controller was selected during conversion or the incompatible software drivers were migrated into the VM from source machine.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1016330

Question 83

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

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

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

Explanation:

Explanation:

First verify md5sum and if it is invalid, download installation files again. Secondly, attempt to use a different installation media because the one used might be corrupt.

Reference:

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Question 84

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

How is the network initially configured?

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

Explanation:

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 85

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

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

Explanation:

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

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Question 86

An administrator is attempting to remove an ESXi 6.x host from a vSphere Distributed Switch (vDS). When the administrator attempts to remove the host, the following error is observed:
��
The resource '16' is still in use. ❖
��
What three steps are needed to successfully remove the host from the switch? (Choose three.)

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

Explanation:

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-8E3B-258A23FB2930.html

Question 87

An administrator is attempting to migrate a❖large Hadoop❖virtual machine❖using vMotion. The administrator notices❖a❖delay❖when the machine is quiesced. ❖The Hadoop virtual machine❖is processing many transactions a second to an in-memory database. ❖
��
Which two❖actions❖would❖help❖reduce the amount of time needed to perform a vMotion on this virtual machine? (Choose two.)

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

Explanation:

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/

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Question 88

Which vSphere 6.x feature will allow an organization to utilize native snapshots?

- ☒ Virtual Volumes
- ☐ Virtual SAN
- ☐ VMFS3
- ☐ VMFS5

Explanation:

Virtual Volumes has the following characteristics:

Virtual Volumes supports offloading a number of operations to storage hardware. These operations include snapshotting, cloning, and Storage DRS.

With Virtual Volumes, you can use advanced storage services that include replication, encryption, deduplication, and compression on individual virtual disks.

Virtual Volumes supports such vSphere features as vMotion, Storage vMotion, snapshots, linked clones, Flash Read Cache, and DRS.

With Virtual Volumes, storage vendors can use native snapshot facilities to improve performance of vSphere snapshots.

You can use Virtual Volumes with storage arrays that support vSphere APIs for Array Integration (VAAI).

Virtual Volumes supports backup software that uses vSphere APIs for Data Protection (VADP).

Reference https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2113013

Question 89

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

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

Explanation:

Explanation:

The default load balancing policy is route based on originating virtual port ID.

Reference: https://pubs.vmware.com/vsphere-60/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-60-networking-guide.pdf (page 47)

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Question 90

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

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

Explanation:

Explanation:

vMotion can be performed between two vCenter servers, two vsphere distributed virtual swiches and between two vcenter server datacenter objects.

Reference: https://www.vmware.com/products/vsphere/features/vmotion

Question 91

Which vSphere 6 Enterprise Edition feature will allow an organization to ensure that critical multi-threaded applications have the maximum possible uptime?

- ☐ Fault Tolerance
- ☒ High Availability
- ☐ Distributed Resource Scheduler
- ☐ App HA

Explanation:

Explanation:

High availability is a permanent feature of vSphere 6 Enterprise edition and it allows critical multi-threaded applications to get maximum possible uptime.

Reference http://www.vladan.fr/how-to-configure-vmware-high-availability-ha-cluster/

Question 92

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

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

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

Explanation:

Explanation:

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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 93

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

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

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

Explanation:

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 94

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

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

Explanation:

Explanation:

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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 95

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

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

Explanation:

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 96

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

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

Explanation:

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.

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

Question 97

An administrator is tasked with setting up an iSCSI solution on an ESXI 6.x host. To provide multiple paths to the iSCSI array, the administrator chooses to setup iSCSI Port Binding.

Which three statements are true in regard to setting up iSCSI Port Binding? (Choose three.)

- ☐ Port binding works across multiple routers as long as the network mask is the same.
- ☒ iSCSI target array ports must reside in the same broadcast domain as the VMkernel adapters.
- ☐ iSCSI VMkernel adapters must be on different virtual switches.
- ☒ All VMkernel adapters used for iSCSI connectivity must reside in the same virtual switch.
- ☒ Port binding cannot be used in conjunction with network routing.

Explanation:

Explanation:

Port binding is used in iSCSI when multiple VMkernel ports for iSCSI reside in the same broadcast domain and IP subnet to allow multiple paths to an iSCSI array that broadcasts a single IP address. When using port binding, you must remember that:

Array Target iSCSI ports must reside in the same broadcast domain and IP subnet as the VMkernel port.

All VMkernel ports used for iSCSI connectivity must reside in the same broadcast domain and IP subnet.

All VMkernel ports used for iSCSI connectivity must reside in the same vSwitch.

Currently, port binding does not support network routing.

Reference: https://kb.vmware.com/s/article/2038869

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Question 98

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

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

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

Explanation:

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

An administrator is unable to create the first group in a new vRealize Operations environment.

What is the likely cause of the problem?

- ☒ There are no group types defined.
- ☐ The group is not defined in SSO.
- ☐ There are more than 32 group types defined.
- ☐ The description for the group is not provided.

Explanation:

Explanation: There is no group types defined when administrator is unable to create the first group in a new vRealize Operations environment.

Reference: https://www.vmware.com/support/vrops/doc/vrops-601-release-notes.html

Question 100

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

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

Explanation:

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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 101

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?

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

Explanation:

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-B87D-93CCDF407D8D.html

Question 102

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

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

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

Explanation:

Explanation:

There are two possible causes. One is a network I/O constraint and the other is storage I/O constraint.

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Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2001003

Question 103

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

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

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

Explanation:

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 104

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

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

Explanation:

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-4D37-8B7B-767D08928888.html

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Question 105

When you add an ESXi6.x host to a new Cluster, which vSphere object owns the CPU and Memory resources of the hosts?

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

Explanation:

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 106

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

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

Explanation:

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/

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Question 107

Which three are architecture components of vRealize Operations? (Choose three.)

- ☐ Identity Server
- ☒ Administrative Server
- ☒ Analytics Server
- ☒ Database Server
- ☐ Connection Broker

Explanation:

Explanation:

Administrative, analytics and database server are active components of vRealize operations.

Reference: https://books.google.com.pk/books?id=VD6qCQAAQBAJ&pg=PA5&lpg=PA5&dq=architectural+components+of+vrealize+operation+administrative+server+analytics+server+database+server&source=bl&ots=GfIG7QQwWL&sig=0vLuiJryvZlqvon1Gc1fuo8e0tg&hl=en&sa=X&ved=0ahUKEwjn79m_gdDNAhVERo8KHQ1VC3QQ6AEIRDAH#v=onepage&q=architectural%20components%20of%20vrealize%20operation%20administrative%20server%20analytics%20server%20database%20server&f=false

Question 108

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

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

Explanation:

Explanation:

Validate remote storage is disconnected. Install media is available and server hardware clock is set to UTC.

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

Question 109

By default, each ESXi 6.x host is provisioned with a certificate from which root certificate authority?

- ☐ RedHat Certificate Authority
- ☒ VMware Certificate Authority
- ☐ DigiCert Certificate Authority
- ☐ Verisign Certificate Authority

Explanation:

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Explanation:

In vSphere 6.0 and later, the VMware Certificate Authority (VMCA) provisions your environment with certificates. This includes machine SSL certificates for secure connections, solution user certificates for authentication to vCenter Single Sign-On, and certificates for ESX hosts that are added to vCenter Server.

Reference https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc%2FGUID-3AF7757E-A30E-4EEC-8A41-28DA72102520.html

Question 110

What is true regarding datastores on ESXi 6.x?

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

Explanation:

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 111

Which vSphere 6 Standard Edition feature will allow an organization to ensure that critical multi-threaded applications have the maximum possible uptime?

- ☐ Fault Tolerance
- ☒ High Availability
- ☐ Distributed Resource Scheduler
- ☐ App HA

Explanation:

Explanation:

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High availability is a permanent feature of vSphere 6 standard edition and it allows critical multi-threaded applications to get maximum possible uptime.

Question 112

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

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

Explanation:

Explanation:

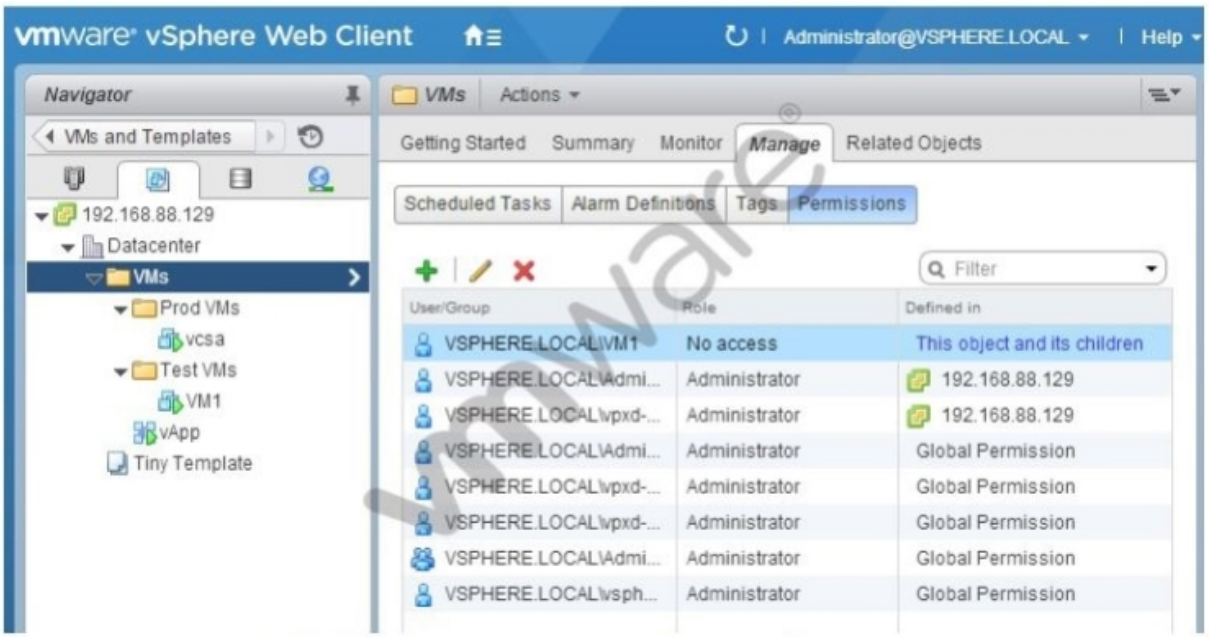
To ensure efficient use of host resources on hosts running ESXi 5.5 and later, the number of ports of standard switches are dynamically scaled up and down. A standard switch on such a host can expand up to the maximum number of ports supported on the host.

Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-350344DE-483A-42ED-B0E2-C811EE927D59.html

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Question 113

A user VM1 requires console access to virtual machine VM1, as shown in the Exhibit:



Based on the exhibit, what action would provide the minimum level of access needed to meet this requirement?

- ☐ Grant Virtual machine user access to the Datacenter with Propagation to children enabled.
- ☒ Modify the permission for user VM1 on the VMs folder to the Virtual machine user role.
- ☐ Remove the No Access permission for user VM1 from the VMs folder.
- ☐ Grant Virtual machine user access to the Test VMs folder.

Question 114

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

What is the reason for this?

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

Explanation:

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

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Question 115

An administrator must determine an appropriate backup solution, given these conditions:
50 of the virtual machines are in a resource pool named Finance.
50 of the virtual machines are in a resource pool named QA.

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

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

Explanation:

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 116

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

Which two steps are required? (Choose two.)

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

Explanation:

Explanation:

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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-AE8AFBF1-75D1-4172-988C-378C35C9FAF2.html

Question 117

Which two actions allow for the disabling of Network Rollback operations? (Choose two.)

- ☒ Modifying the vpxd advanced configuration options and adding the config.vpxd.network.rollback key
- ☒ Modifying the C:\ProgramData\VMware\CIS\cfg\vmware-vpx\vpxd.cfg file and adjusting the<rollback> xml tag
- ☐ Modifying the C:\ProgramData\VMware\CIS\cfg\vmware-vpx\vpxd.cfg file and adjusting the <networkrollback> xml tag
- ☐ Modifying the C:\ProgramData\VMware\CIS\cfg\vmware-vpx\firstboot\vpxd-service-spec.prop file and adjusting the <rollback> xml tag

Explanation:

Explanation:

Modifying the vpxd advanded configuration options and adding the config.vpxd.network.rollback key. You can also modify the C:\ProgramData\VMware\CIS\cfg\vmware-vpx\vpxd.cfg file and adjusting the<rollback> xml tag

Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-C50DBAAC-89A7-4BF9-A7F8-70EAB37E53C7.html

Question 118

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

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

Explanation:

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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 119

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

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

Explanation:

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 120

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

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

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

Explanation:

Explanation:

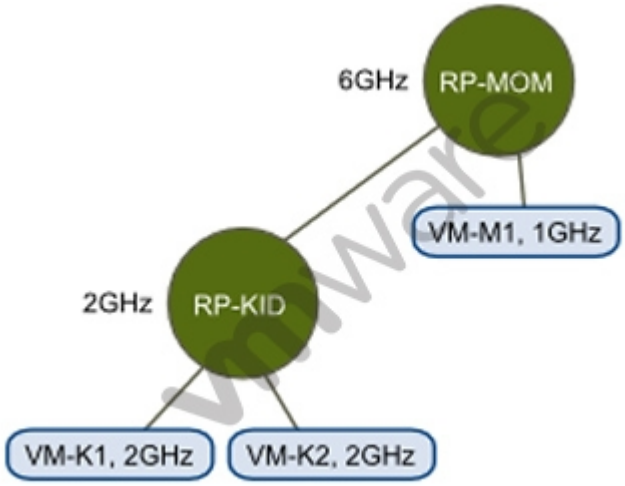
For the virtual machine that requires more resources, you can set the shares of the priority VM to high and set the rest to medium or low.

Reference: http://www.globalknowledge.net/mea-shared-content/documents/645372/645389/WP_VM_Resource_Pools.pdf (page 3)

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Question 121

Refer to the Exhibit.



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

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

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

Question 122

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

- ☒ 64
- ☐ 96
- ☐ 128
- ☐ 256

Explanation:

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-B99D-5714B42CD7A9.html

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Question 123

An administrator has configured an alarm to be notified when a virtual machine meets two conditions:
high virtual CPU
high active memory consumption

The alarm is malfunctioning and triggering when either condition is met instead of both.

What can be done to correct the issue?

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

Explanation:

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 124

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

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

Explanation:

Explanation:

Reservation and shares apply to virtual machine CPU and memory allocation.

Reference: http://frankdenneman.nl/2010/06/08/reservations-and-cpu-scheduling/

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Question 125

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

What should be done to resolve this issue?

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

Explanation:

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-AEAF-901DA4CB4D60.html

Question 126

For security purposes, which two traffic types should be assigned to separate VMkernel adapters? (Choose two.)

- ☐ Datastore heartbeat traffic
- ☒ Virtual SAN traffic
- ☐ Replication data traffic
- ☒ Virtual machine traffic

Question 127

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

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

Explanation:

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.

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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 128

Which three actions can be executed when an alarm is triggered? (Choose three.)

- ☒ Send an email.
- ☒ Send an SNMP trap.
- ☒ Run a script or command.
- ☐ Run an Orchestrator workflow.
- ☐ Send a trigger to syslog.

Explanation:

Explanation:

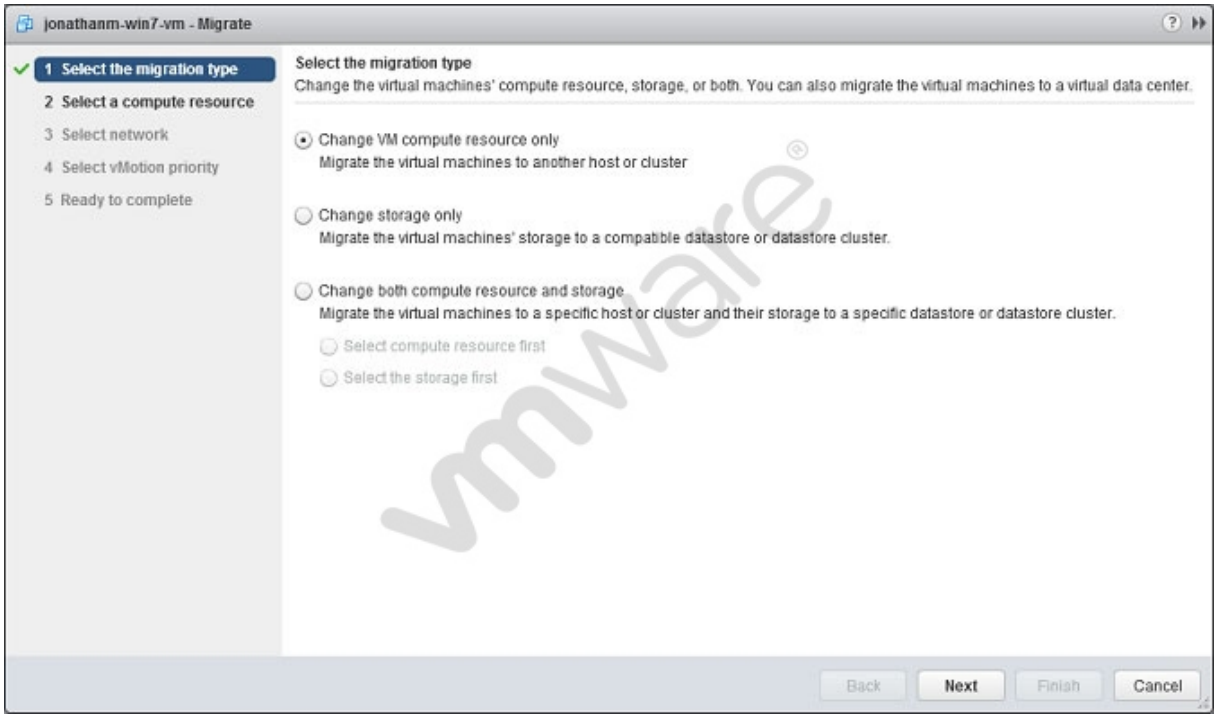
when the alarm is triggered, the system will send an email to the designated email address. It will send SNMP trap to notify other systems and runs a script or command as directed by the admin.

Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.monitoring.doc%2FGUID-8F833B44-E675-406D-BFC1-64FB08EF6DFD.html

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Question 129

Refer to the Exhibit.



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

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

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

Explanation:

Explanation:

Select Change storage only because this option will migrate the virtual machine's storage to a compatible datastore or a datastore cluster.

Reference:

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Question 130

Which three traffic types are available services options when configuring a vmkernel port? (Choose three.)

- ☒ Provisioning Traffic
- ☐ Virtual Volumes Traffic
- ☒ vSphere Replication NFC Traffic
- ☒ Virtual SAN Traffic
- ☐ FCoE Traffic

Explanation:

Explanation:

You can enable services for the default TCP/IP stack on the host. Select from the available services:

vMotion traffic. Enables the VMkernel adapter to advertise itself to another host as the network connection where vMotion traffic is sent. The migration with vMotion to the selected host is not possible if the vMotion service is not enabled for any VMkernel adapter on the default TCP/IP stack, or if no adapters are using the vMotion TCP/IP stack.

Provisioning traffic. Handles the data transferred for virtual machine cold migration, cloning, and snapshot creation.

Fault Tolerance traffic. Enables Fault Tolerance logging on the host. You can use only one VMkernel adapter for FT traffic per host.

Management traffic. Enables the management traffic for the host and vCenter Server. Typically, hosts have such a VMkernel adapter created when the ESXi software was installed. You can create another VMkernel adapter for management traffic on the host to provide redundancy.

vSphere Replication traffic.Handles the outgoing replication data that is sent from the sourceESXi host to the vSphere Replication server.

vSphere Replication NFC traffic. Handles the incoming replication data on the target replication site.

Virtual SAN. Enables the Virtual SAN traffic on the host. Every host that is part from a Virtual SAN cluster must have such a VMkernel adapter.

Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-1C0D8D8D-F9A5-4443-9AE7-544742630D39.html

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Question 131

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

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

Explanation:

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 132

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

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

Explanation:

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 133

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

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

Explanation:

Explanation:

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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 134

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

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

Explanation:

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 135

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

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

Explanation:

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

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Question 136

A mission-critical virtual machine built on vSphere 4.1 needs to be moved to an ESXi 6.x host.
Which virtual hardware version is needed to move the virtual machine without upgrading?

- ☐ 6
- ☒ 7
- ☐ 10
- ☐ 11

Explanation:

Explanation:

You need version 7 to upgrade a VM on vSphere 4.1 to ESXi 6.x host

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003746

Question 137

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

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

- ☒ 24
- ☐ 48
- ☐ 64
- ☐ 128

Explanation:

Explanation:

A total of 24 vCPUs can be assigned to a virtual machine if hyperthreading is enabled.

Reference: http://wahlnetwork.com/2013/09/30/hyper-threading-gotcha-virtual-machine-vcpu-sizing/

Question 138

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

- ☒ EVC masks dissimilar CPU features.
- ☐ EVC allows for cross platform vMotion to occur.
- ☐ EVC enables Storage vMotion functionality.
- ☐ EVC enables Long Distance vMotion.

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Question 139

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

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

Explanation:

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-7418-4698-8CCF-BDF361664A3A.html

Question 140

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

Not Enough Failover Resources

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

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

Explanation:

Explanation:

This error message happens when the default slot size in the cluster is too high or the virtual machines with large CPU reservations are used. It also happens when the host is in maintenance mode for the replace of a failed hard drive.

Reference: https://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.availability.doc_41/c_useha_works.html

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Question 141

An administrator wants to remove all the CIM data for the last 2 years to make troubleshooting easier:

What is the correct method of doing this?

- ☐ From the DCUI execute Reset Sensors.
- ☐ Execute Reset Event Log from the host's Hardware Status tab in vCenter Server.
- ☐ From the DCUI execute Reset System Configuration.
- ☒ Execute Reset Sensors from the host's Hardware Status tab in vCenter Server.

Question 142

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

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

Explanation:

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 143

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

What is the easiest way to accomplish this task?

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

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Question 144

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

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

Explanation:

Explanation:

Cache fills and cache evictions happen in the granularity of a cache block size. This value ranges from 4KB to 1MB to enable you to best configure your cache block size based on the I/O size of workloads. Even though cache fills and cache evictions happen in the granularity of a cache block size, actual read I/O serviced by the cache can be smaller than the cache block size. For example, if the cache block size is 64KB, and a 4KB read I/O request is issued by the guest virtual machine, and if the data is not available in the cache, a 4KB read is issued to the VMDK. When populating the cache, the vFRC algorithm looks for a 64KB region to place the new 4KB data. If no free space is available, a 64KB region is evicted and the space is used to hold the new 4KB data. The remaining 60KB region in the 64KB cache block is marked as invalid. The cache block size parameter therefore has profound effects on performance

Reference: https://www.vmware.com/files/pdf/techpaper/vfrc-perf-vsphere55.pdf

Question 145

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

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

Explanation:

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

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Question 146

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

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

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

Explanation:

Explanation:

When you configure replication of a virtual machine, you can enable multiple point in time (PIT) instances in the recovery settings in the Configure Replication wizard. vSphere Replication retains a number of snapshot instances of the virtual machine on the target site based on the retention policy that you specify. vSphere Replication supports maximum of 24 snapshot instances. After you recover a virtual machine, you can revert it to a specific snapshot.

During replication, vSphere Replication replicates all aspects of the virtual machine to the target site, including any potential viruses and corrupted applications. If a virtual machine suffers from a virus or corruption and you have configured vSphere Replication to keep PIT snapshots, you can recover the virtual machine and then revert it to a snapshot of the virtual machine in its uncorrupted state.

Reference: https://pubs.vmware.com/srm-55/index.jsp?topic=%2Fcom.vmware.srm.admin.doc%2FGUID-F3C8A2E9-183E-4DFF-A7D1-43CAEE584149.html

Question 147

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

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

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

Explanation:

Explanation:

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If the analytics failed to start, take the vRealize operations cluster offline, delete activity persistence files and bring the cluster back online to start the failed services.

Reference: https://www.vmware.com/support/vrops/doc/vrops-601-release-notes.html

Question 148

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

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

Explanation:

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-918C-68C87FEB060A.html

Question 149

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

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

Explanation:

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-A086-7016D73C328F.html

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Question 150

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

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

Explanation:

Explanation:

VDP reduces disk space consumed by virtual machine data using deduplication.

Reference: https://www.vmware.com/files/pdf/techpaper/Introduction-to-Data-Protection.pdf

Question 151

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

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

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

Explanation:

Explanation:

To change the host name without editing configuration files on the host, first, login to the direct console user interface and change the host name. Now edit the default TCP/IP configuration from the vSphere client.

Reference: http://pubs.vmware.com/vsphere-60/index.jsp

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Question 152

An administrator is attempting to power on a virtual machine, but is unable to do so.
��
Which two reasons are probable causes of the failure? (Choose two.)

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

Explanation:

Explanation:

One of the reasons it is doing so is because the storage access to the VM machine swap file has been lost or one of the VMDK files is locked.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=10051

Question 153

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

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

Explanation:

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-A2FE-3688AD55B6EF.html

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Question 154

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

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

Explanation:

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 155

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

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

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

Question 156

An administrator attempts to create a Thick Provisioned�Virtual ◆Disk (VMDK) on an NFS datastore; but it fails.
◆◆
Which two reasons would explain the failure? (Choose two.)

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

Explanation:

Explanation:

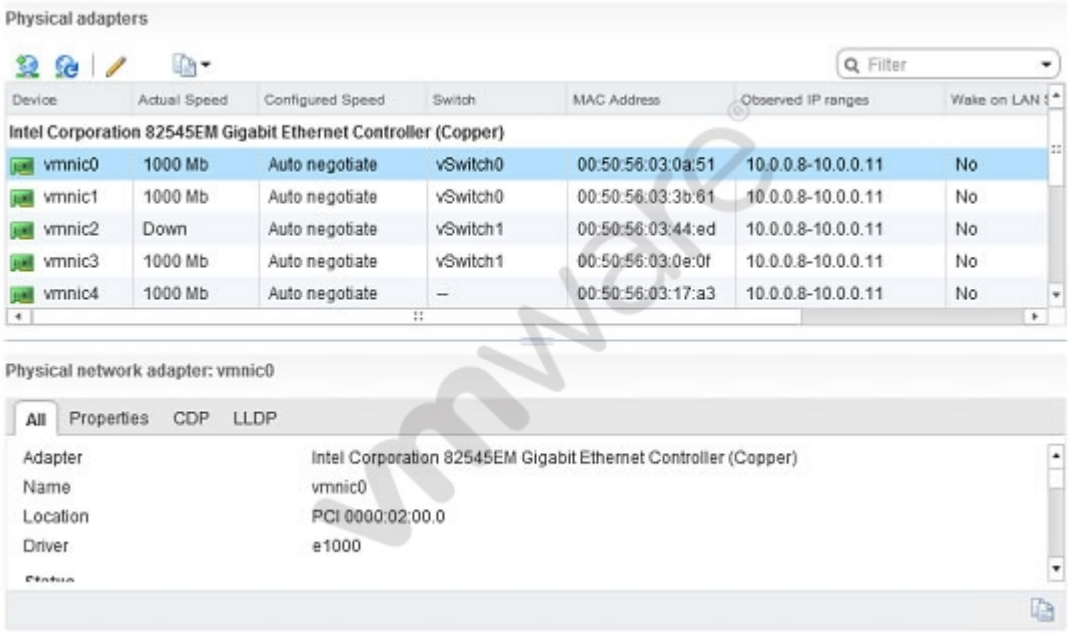
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NFS datastores with Hardware Acceleration and VMFS datastores support the following disk provisioning policies. On NFS datastores that do not support Hardware Acceleration, only thin format is available

Reference: https://communities.vmware.com/thread/447915?start=0&tstart=0

Question 157

Refer to the Exhibit.



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

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

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

Explanation:

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:

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Question 158

An administrator is monitoring a High Availability (HA) and Distributed Resource Scheduler (DRS) enabled cluster and has noticed that virtual machines in the cluster are being migrated without user intervention.

Why is this happening?

- ☒ The DRS Automation level is set to Fully Automated.
- ☐ The Automation level is set to Automatic.
- ☐ The DPM Threshold is set to Aggressive.
- ☐ The Power Management feature is configured.

Explanation:

Explanation:

When the DRS automation level is set to filly automated, virtual machines in the cluster might be migrated without user intervention.

Reference:http://www.uf-it.eu/Datenblaetter/VMware%20vsphere%20evaluators%20guide.pdf

Question 159

What are two ways to identify TCP/IP stack information? (Choose two.)

- ☒ Using the vSphere Web Client
- ☒ Using esxcli network ip netstack
- ☐ Using esxcfg-netstack
- ☐ Using the vSphere Client

Explanation:

Explanation:

Use vSphere web client or the command esxcli network ip netstack to identify TCP/IP stack info.

Reference: https://virtualizationreview.com/articles/2015/10/26/configure-multiple-tcpip-stacks-in-vsphere-6.aspx

Question 160

An administrator needs to monitor traffic on vSwitches in a vSphere 6.x environment.

Which option, if configured, would accomplish this task?

- ☐ Forged Transmits
- ☐ MAC Address Changes
- ☒ Promiscuous Mode
- ☐ Notify Switches

Explanation:

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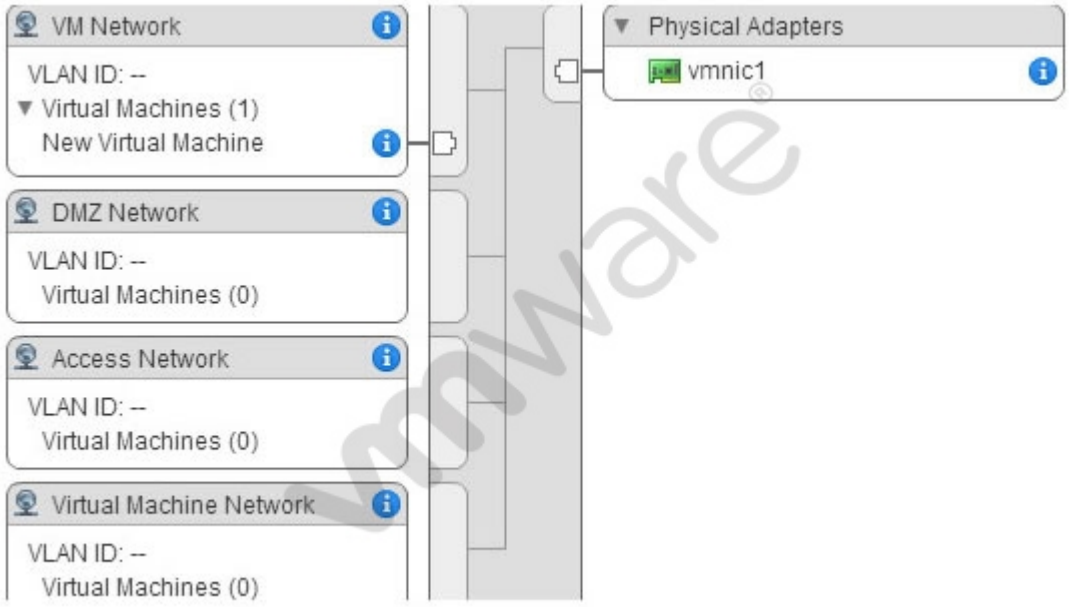
Explanation:

To monitor traffic via VMware Service Console (SC), a port group and a vswif interface with security settings modified to promiscuous mode accept is required for capturing.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1000880

Question 161

Refer to the Exhibit.



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

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

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

Explanation:

Explanation:

Access network will be utilized by deault when creating a new virtual machine as can be seen in the exhibit.

Reference:

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Question 162

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

Insufficient resources to satisfy HA failover level on cluster

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

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

Explanation:

Explanation:

One of the causes is that the hosts in the cluster are disconnected. They might be displaying an HA error.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1001596

Question 163

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

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

Explanation:

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 164

What component must be installed prior to deploying a vCenter Server in vSphere 6.x?

- ☐ vCenter Identity Services
- ☒ Platform Services Controller
- ☐ vCenter Single Sign-On
- ☐ Client Integration Plug-In

Explanation:

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Explanation:

You have to install Platform services controller before deploying vcenter server in vSphere 6.x

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2107948

Question 165

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

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

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

Explanation:

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 166

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

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

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

Explanation:

Explanation:

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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 167

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

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

Explanation:

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 168

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

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

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

Explanation:

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/

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Question 169

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

What data counter would best identify the suspected problem?

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

Question 170

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

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

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

Explanation:

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 171

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

Which network is used for HA Network Heartbeat configuration?

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

Explanation:

Explanation:

Virtual SAN network is used for HA Network heart beat configuration.

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Reference: https://pubs.vmware.com/vsphere-55/index.jsp?topic=%2Fcom.vmware.vsphere.storage.doc%2FGUID-D68890D8-841A-4BD1-ACA1-DA3D25B6A37A.html

Question 172

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

What is a limitation of this configuration?

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

Explanation:

Explanation:

Snapshots are not supported with PCI vSphere Direct Path I/O devices.

Reference: https://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.vm_admin.doc%2FGUID-058AEDF0-117E-4E17-956D-37181E22D499.html

Question 173

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

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

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

Explanation:

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: https://kb.vmware.com/selfservice/search.do?cmd=displayKC&docType=kc&docTypeID=DT_KB_1_1&externalId=1027096

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Question 174

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

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

Explanation:

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 175

An administrator is configuring the Maximum Transmission Unit value on a vSphere Distributed Switch.

Which two options are typical values for ESXi networking? (Choose two.)

- ☐ 1492
- ☒ 1500
- ☒ 9000
- ☐ 9089

Explanation:

Explanation:

To configure Jumbo Frames on a vDS using vSphere Client on vCenter Server 5.1 and earlier:

1. From vCenter Server click, click Home > Inventory > Networking.

2. Right-click the vDS and click Edit Settings.

3. On the Properties tab, select the Advanced option.

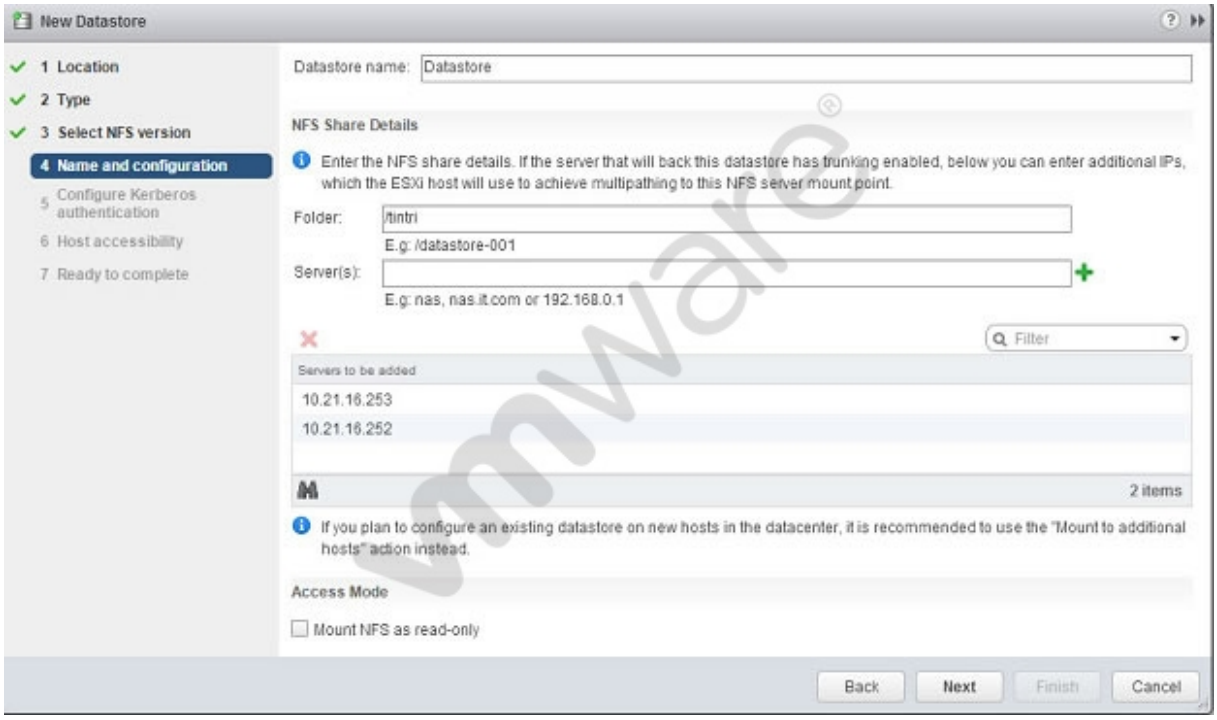
4. Change the Maximum MTU value from the default value of 1500 to 9000. This enables Jumbo Frames on all portgroups and ports.

Reference: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1038827

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Question 176

Refer to the Exhibit.



An administrator is adding an NFS datastore as shown in the Exhibit.

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What is the purpose of the Servers to be added list?

- ☒ It contains the IP addresses of the NFS Storage Server to provide multipathing capability.
- ☐ It contains the IP addresses of the ESXi hosts that mount the datastore.
- ☐ It contains the IP addresses used for Dynamic Discovery of targets.
- ☐ It contains the IP addresses used for Static Discovery of targets.

Explanation:

Explanation:

NFS share details are necessary because it contains IP addresses of NFS storage server to provide multipathing capability.

Reference:

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Question 177

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

What condition could cause this behavior?

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

Explanation:

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 178

Which two components can be used when configuring Enhanced Linked Mode? (Choose two.)

- ☒ vCenter Server Appliance
- ☐ vRealize Operations Manager
- ☐ vSphere Management Appliance
- ☒ vCenter Server for Windows

Explanation:

Explanation:

With Enhanced Linked Mode, you can connect not only vCenter Server systems running on Windows but also many vCenter Server Appliances. You can also have an environment where multiple vCenter Server systems and vCenter Server Appliances are linked together.

Reference https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc%2FGUID-91EF7282-C45A-4E48-ADB0-5A4230A91FF2.html

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Question 179

Which component enables an Administrator to authenticate into multiple vCenter Servers with a single login using Enhanced Link Mode?

- ☐ Fault Domain Manager
- ☒ Platform Services Controller
- ☐ Placement Engine
- ☐ Cloud Foundry

Question 180

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

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

Explanation:

Explanation:

Virtual processors are not supported. You have to deploy single threaded applications on uniprocessor virtual machines.

Reference: http://support.theenterprisecloud.com/kb/default.asp?id=343

Question 181

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

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

Explanation:

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

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Question 182

An organization has configured Distributed Power Management (DPM) on a vSphere 6.x cluster. The organization wants to be alerted when an ESXi host has been powered down by DPM.
��
Which two options represent the type and name of the alarm that would accomplish this? (Choose two.)

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

Explanation:

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 183

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

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

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

Explanation:

Explanation:

Question 184

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

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

Explanation:

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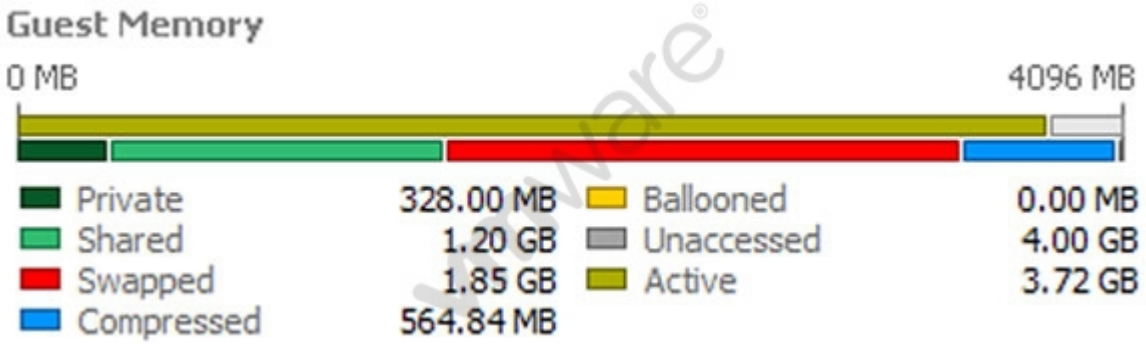
Explanation:

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-4F21-82A7-8F2A7294604D.html

Question 185

Refer to the Exhibit.



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

What potential issues could be attributed to this memory pressure?

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

Explanation:

Explanation:

One of the issue might be that the limit is imposed on the virtual memory of this VM. Secondly, the balloon driver has been uninstalled. That's why it is experiencing memory issues.

Reference:

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Question 186

Which two are true about the Risk badge in vRealize Operations? (Choose two.)

- ☒ The Risk badge indicates potential future problems that may degrade the performance of the system.
- ☒ Risks may require attention in the near future.
- ☐ The Risk badge indicates problems that are degrading performance of the system.
- ☐ Risks require attention now to correct system performance problems.

Explanation:

Explanation:

The Risk badge indicates potential problems that might eventually degrade the performance of the system. Risk does not necessarily imply a current problem. Risk indicates problems that might require your attention in the near future, but not immediately.

Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.vcops.doc%2FGUID-30184AD9-6790-48DC-96C5-4A38DEEFEA3A.html

Question 187

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

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

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

Explanation:

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

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Question 188

Which two statements are correct when turning off a Distributed Resource Scheduler (DRS) Cluster? (Choose two.)

- ☐ The resource pool hierarchy of the DRS cluster is maintained.
- ☒ The resource pool hierarchy of the DRS cluster is removed.
- ☒ The affinity settings of the DRS cluster are removed and not maintained when DRS is re-enabled.
- ☐ The affinity settings of the DRS cluster are maintained when DRS is re-enabled.

Explanation:

Explanation:

When DRS is disabled, the cluster's resource pool hierarchy and affinity rules are not reestablished when DRS is turned back on. So if you disable DRS, the resource pools are removed from the cluster.

Reference: http://www.vladan.fr/vcp6-dcv-objective-9-2-configure-advanced-vsphere-drs-features/

Question 189

An administrator is deploying the vCenter Server Appliance.
Which two are valid steps that must be taken to successfully deploy the appliance? (Choose two.)

- ☒ The ESXi host that the appliance will run on must be first taken out of Lockdown Mode.
- ☐ The appliance is deployed using the vSphere Web Client.
- ☒ The appliance is deployed using the Client Integration Plug-In.
- ☐ The ESXi host that the appliance will run on must be first placed into Maintenance Mode.

Explanation:

Reference: https://pubs.vmware.com/vsphere-60/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc%2FGUID-37BB88CC-7A44-4EC9-8D7B-5D182E471654.html

Question 190

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

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

Explanation:

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Explanation:

vSphere Update Manager 6.x scan and remediation wizards offer upgrade and patch ESXi hosts, install and update third-party software and upgrade virtual machine hardware.

Reference: http://www.vmware.com/pdf/vsp_vum_40_admin_guide.pdf

Question 191

VMware tools is failing to install on a Microsoft Windows virtual machine. ❒
❒❒
What are two possible❒situations that would❒prevent❒the❒installation?❒(Choose two.)

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

Explanation:

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: https://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1012693

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