VMware VCP-510



VMware Certified Professional on vSphere 5

Version: 7.8

Topic 1, Main Questions Set A

QUESTION NO: 1

Which three modules are optional components that can be added from the vCenter Server installer? (Choose three.)

A. VMware vCenter ESXi Dump Collector
B. VMware vCenter Storage Monitoring
C. VMware vSphere Web Client
D. VMware vCenter Orchestrator
E. VMware vSphere Update Manager

Answer: A,C,E

Explanation:
Reference: Page 200 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

QUESTION NO: 2

What do changes made to resources available in a parent pool affect in a resource pool hierarchy?

A. Child pools
B. Sibling pools
C. Sibling and child pools
D. Root resource pools

Answer: C

Explanation:
A resource pool can contain child resource pools, virtual machines, or both. You can create a hierarchy of shared resources. The resource pools at a higher level are called parent resource pools. Resource pools and virtual machines that are at the same level are called siblings. The cluster itself represents the root resource pool. If you do not create child resource pools, only the root resource pools exist.

QUESTION NO: 3

What are two benefits of virtual compatibility mode for RDMs, as compared to physical compatibility mode? (Choose two)

A. Allows the use of SAN-aware applications
B. Allows for cloning
C. Allows for the use of array-based snapshots
D. Allows for template creation of the related virtual machine

Answer: B,D

Explanation:

Page 39 from vsphere-esxi-vcenter-server-50-virtual-machine-admin-guide.pdf

QUESTION NO: 4

An existing vSphere environment will be upgraded to vSphere 5. The current implementation utilizes ESX 4.1 and the new implementations will ESXi 5.x.

In which two ways will the new ESXi 5.x implementation differ from ESX 4.1 implementation? (Choose two)

A. VMware ESXi 5.x does not provide a host-based firewall.
B. VMware ESXi 5.x can boot from additional sources, such as a USB drive.
C. VMware ESXi 5.x does not provide local command-line management capabilities.
D. VMware ESXi 5.x can support virtual machine which larger resource configurations.

Answer: B,D

Explanation:

Option A is incorrect, ESXi have a internal firewall.

Option B is correct.

Page 28 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

Option C is incorrect, ESXi have local command-line but is necessary enable it.

Page 9 from vsphere-esxi-vcenter-server-50-command-line-interface-getting-started-guide.pdf

Option D is correct. See all Maximum configuration for ESX 4 and ESX5 document.

Some example:

ESX 4

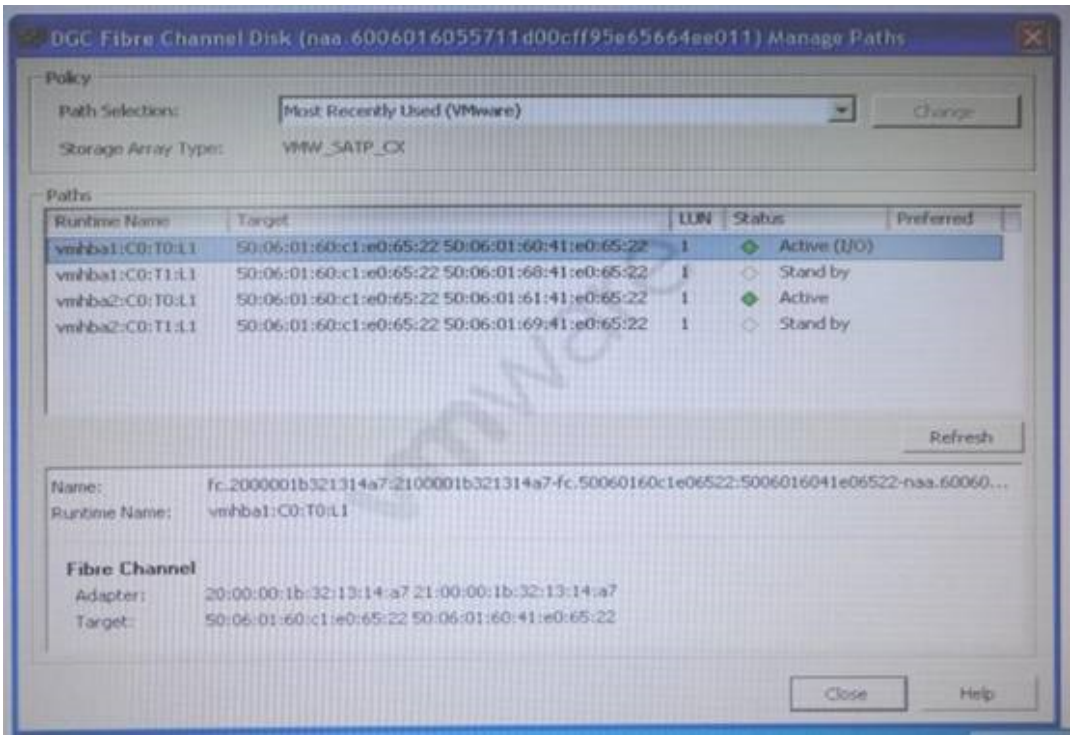
Max CPU - 8

ESX 5

Max CPU - 32

QUESTION NO: 5

Exhibit:



Based on the exhibit, what is the reason that none of the paths are marked as preferred?

A. A preferred path has been selected, but the Refresh button must be pressed to reflect the change.
B. A preferred path cannot be selected.
C. A preferred path has not been chosen.
D. A preferred path has not been chosen because insufficient Active paths exist

Answer: B
Explanation:

QUESTION NO: 6

Which resource management technique can be used to relieve a network bottleneck by a virtual

machine with occasional high outbound network activity?

A. Apply traffic shaping to the port group that contains the virtual machine.
B. Convert traffic shaping from a nNetwork Standard Switch to a vNetwork Distributed Switch.
C. Apply traffic to the other virtual machines in the same port group.
D. Apply traffic to the virtual machine with high activity.

Answer: A

Explanation:

Page 54 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 7

VMware vCenter Site Recovery Manager requires which two VMware products as part of the solution?

A. vSphere HA
B. VMware ESXi
C. VMware vCenter Server
D. VMware Data Recovery

Answer: B,C

Explanation:

Option A is incorrect:

vSphere HA is used to perform High Availability in local environments, and is not needed in vCenter Site

Recovery Manager environment.

Option B is correct:

ESXi run virtual machines of virtual environment.

Option C is correct:

VMware vCenter Server help to manage Site Recovery Manager actions.

Option D is incorrect:

VMware Data Recovery is used to perform backup of virtual machines.

QUESTION NO: 8

Which tool defines the Image Profiles used with Auto Deploy?

A. The vSphere Client via the Image Profiles management plug-in
B. The vSphere Power CLI image builder cmdlet
C. The vSphere CLI esxcfg-image utility
D. The vSphere CLI esxcli image add command

Answer: B

Explanation:
Reference:

http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

QUESTION NO: 9

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

A. When a virtual machine is migrated to a different datastore.
B. When a guest OS files in a virtual disk are deleted.
C. When a virtual machine is migrated to a different host.
D. When a virtual disk is deleted.

Answer: A,D

Explanation:
Page 188 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 10

An administrator receives a complaint that a virtual machine is performing poorly. The user attributes the issue to poor storage performance.

IF the storage array is the bottleneck, which two counters would be higher than normal?

(Choose two)

A. Average device latency per command, in milliseconds (DAVG per cmd)
B. Average ESXi VMKernel latency per command, in milliseconds (KAVG per cmd)
C. Average virtual machine operating system latency per command, in milliseconds (GAVG per cmd)
D. Number of SCSI reservation conflicts per second (CONS per second)

Answer: A,D
Explanation:

QUESTION NO: 11

A user attempts a remote SSH connection to a newly installed ESXi 5.x host to execute some commands. The SSH connection attempts fails, through the user is able to receive a ICMP ping back from the host. Which two connections might cause the issue? (Choose two)

A. The shell timeout is set too low.
B. The ParentRootLogin option is set to False.
C. The SSH service is disabled on the host by default.
D. The ESXi firewall blocks the SSH protocol by default.

Answer: C,D
Explanation:
Option A is incorrect:
Shell Timeout is disabled by default.

Option B is incorrect:
The paremeter "ParentRootLogin" is only used in ESX no in ESXi
Option C is correct:
http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

Option D is correct:
Per default the service and ports are disable after installation.

QUESTION NO: 12

An administrator has deployed vCentre Data Recovery and needs to create a de-duplication. Which three storage options can be used? (Choose three)

A. 1TB Raw Device Mapped disk
B. 1TB virtual disk
C. 1TB CIFS network share
D. 500GB CIFS network share
E. 2TB Raw Device Mapped disk

Answer: A,B,D

Explanation:

Note: The term deduplication refers generally to eliminating duplicate or redundant information.

QUESTION NO: 13

A datastore administrator has requested that a virtual disk attached to a virtual machine running an I/O intensive database application be fully provisioned. The virtual disk was initially thin provisioned. Which two methods would accomplish this task? (Choose two)

A. Use Storage vMotion and change the disk type to Flat.
B. Use the Inflate option in the Datastore Browser.
C. Use the Inflate option in the Datastore Properties.
D. Use Storage vMotion and change the disk type to Thick.

Answer: B,D

Explanation:

Option B is correct:

Page 130 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

Option D is correct:

Page 226 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 14

An administrator has purchased a new 10GB Converged Network Adapter (CNA) for installation in

system that is running ESXi 5.x. the administrator has downloaded the latest driver from the hardware vendor and wants to include the driver in an image. The image profile acceptance level is set to VMwareSupported.

Which acceptance level could the driver have and still be included in the image? (Choose two)

A. PartnerSupported
B. VMwareAccepted
C. CommunitySupported
D. VMwareCertified

Answer: B,D
Reference:

http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.upgrade.doc_50/GUID-27BBBAB8-01EA-4238-8140-1C3C3EFC0AA6.html

QUESTION NO: 15

Where the VMware vSphere Storage Appliance Manager (VSA Manager) must be installed in a vSphere 5 environment?

A. On a standalone Windows machine.
B. The VSA manager is installed as a separate virtual appliance.
C. On the vCentre Server system.
D. On the VMware vSphere Storage Appliance.

Answer: C
Explanation:
Option C is correct:
Page 11 from vsphere-storage-appliance-10-install-config.pdf

QUESTION NO: 16

Which two conditions must exist on all hosts in the cluster if Enhanced vMotion Compatibility

(EVC) is used? (Choose two)

A. The hosts must all run the same vSphere version.
B. The hosts must have the NX/XD feature enabled m BIOS.
C. The hosts must all belong to the same CPU family.
D. The hosts must all be part of the same DRS Group.

Answer: B,C

Explanation:

Hosts in an EVC cluster must meet certain requirements.

To enable EVC on a cluster, the cluster must meet the following requirements:

QUESTION NO: 17

A new LUN has been presented to two ESXi hosts: ESXiA and ESXiB. The LUN can be seen from both servers. A vSphere Client attached to ESXiB is used to create a VMFS datastore on the LUN. The new datastore is visible on ESXiB but not on ESXiA.

Which step must be taken to make the datastore visible to ESXiA?

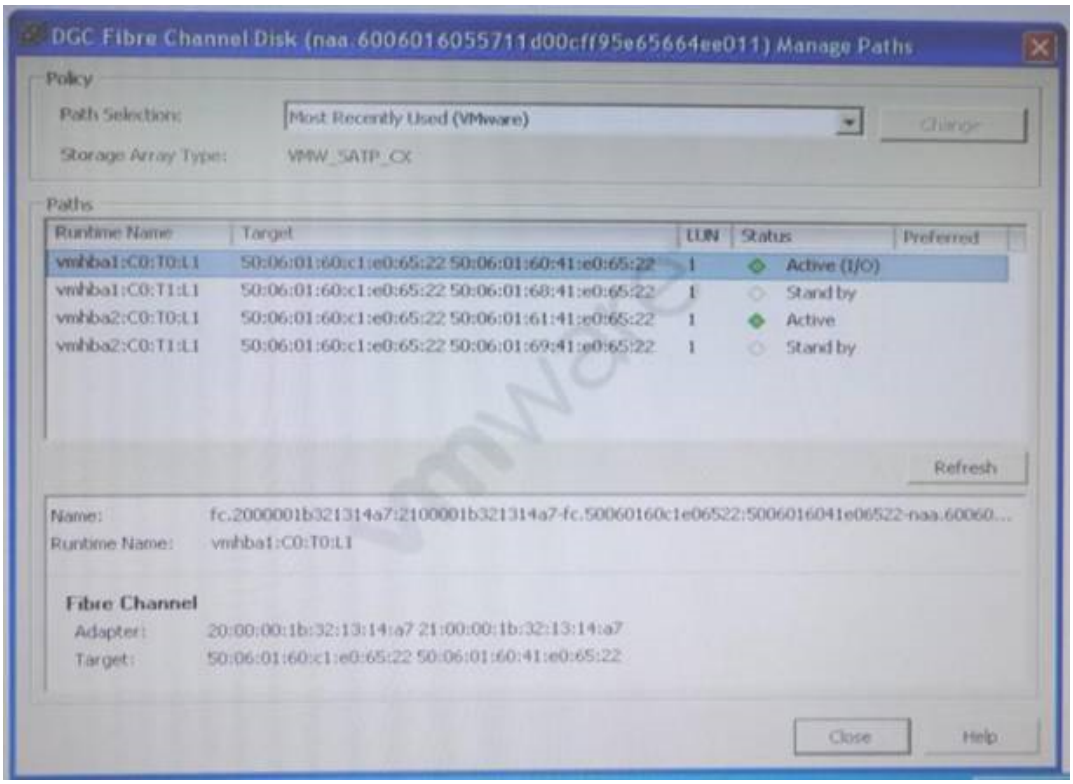
A. Perform a rescan operation on ESXiB.
B. Reboot ESXiA.
C. Perform a rescan operation on ESXiA
D. Modify LUN masking settings on the storage array.

Answer: C

Explanation:

QUESTION NO: 18

Exhibit:



Based on the exhibit, what is the appropriate action to disable a path?

A. Paths cannot be disabled in this interface.
B. Right-click the path you want to disable and then select Disable
C. Click, the path you want to disable then press Delete
D. Double-click the new path you wish to make active. The existing path will be disabled

Answer: B

Explanation: Explanantion:
http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.storage.doc_50/GUID-FC0346B1-7A32-4A49-9415-F93260367200.html

QUESTION NO: 19

An administrator is installing a vCenter Server instance to manage 10 ESXi hosts and 100 machines.

Approximately how much additional datastore capacity is required to increase the statistics collection level to maximum for all collection periods, compared to a standard installation?

A. 6GB
B. 9GB
C. 3GB
D. 1GB

Answer: B
Explanation:
VCP4 question.

QUESTION NO: 20

To uplink a Hardware FCoE Adapter, what, configuration step must be performed?

A. Create a vSphere Distributed Switch and add the FCoE Adapter as an uplink.
B. Enable the FCoE service and select the newly installed adapter.
C. Create a vSphere Standard Switch and add the FCoE Adapter as an uplink.
D. No configuration is required. The adapter will appear to the host as a Fibre Channel Adapter.

Answer: D
Explanation:

http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

QUESTION NO: 21

An administrator is attempting to deploy a virtual machine from an existing template, but deploy Virtual Machine from this template menu option is unavailable.

What are two reasons this issue would occur? (Choose two)

A. The template has not been stored in the proper format
B. The vSphere Client is connected to an ESXi host
C. The template is listed as Orphaned
D. The administrator is using the vSphere Web Client

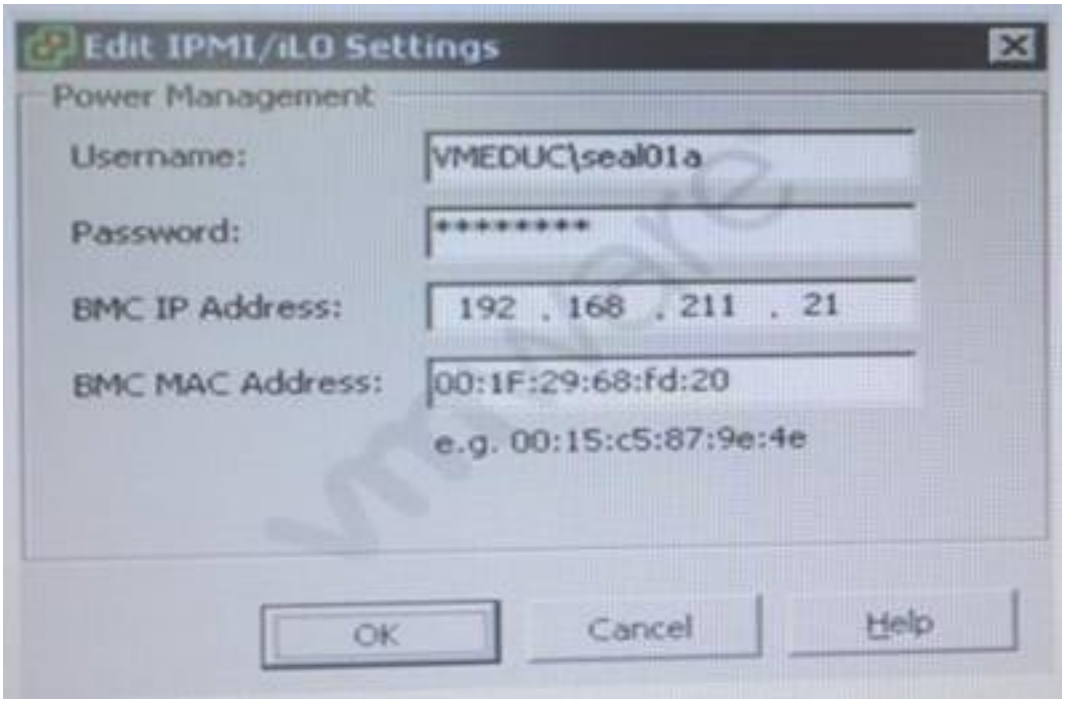
Answer: B,C

Explanation:

A - probably wrong, there is no proper template format
B - 100% correct, vClient must be connected to vCenter not directly to ESX server to use templates
C - probably correct, if ESX looses connection to Vcenter templates are orphaned
D - wrong, templatec can be used by Web Client

QUESTION NO: 22

Exhibit:



The information shown in the exhibit must be configured to support which cluster feature?

A. HA
B. DPM
C. DRS
D. EVC

Answer: B
Explanation:
Virtual Center use ILO/IPMI/DRAC commands to shutdown or start ESX hosts.

QUESTION NO: 23

What are two ways to enable remote tech support mode (SSH) on an ESXi 5.x host?

(Choose two)

A. Through the Security Profile pane of the Configuration tab m the vSphere Client
B. Through the Direct Console User Interface (DCUI)
C. Through the Advanced Settings pane of the Configuration tab in the vSphere Client
D. Through the Networking pane of the Configuration tab in the vSphere Client

Answer: A,B
Explanation:
http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

QUESTION NO: 24

An administrator is performing maintenance on a storage array used by a DRS cluster. The administrator wants to disable alarm actions for the cluster while the maintenance is taking place.

What procedure will accomplish this task?

A. Go to the alarms tab for each ESXi host in the DRS cluster. Locate storage-related alarms. Right click and disable each alarm
B. Right-click the DRS cluster and select Alarm and Disable Alarm Actions
C. Right-click the datacenter containing the DRS cluster. Select Alarm Disable Alarm Actions
D. Go to the alarms tab for the datacenter containing DRS cluster. Locate the storage-related alarms. Right-click and disable each alarm

Answer: B
Explanation:
Using a productoin environment we can see what is the correct answer.

QUESTION NO: 25

Which two features secure the VMkernel? (Choose two)

A. Memory hardening
B. Binary translation
C. Kernel module integrity
D. Service console firewall

Answer: A,C
Explanation:
Page 10 from vsphere-esxi-vcenter-server-50-security-guide.pdf

QUESTION NO: 26

A company runs several instances of an application that requires large amounts of memory.

Which three metrics are checked to diagnose a memory bottleneck at the ESXi host level? (Choose three)

A. MEMSZ
B. MEMCTL
C. SWAP
D. ZIP
E. MCILTGT

Answer: A,B,C
Explanation:

There are three metrics to diagnose a memory bottle at the ESXi host level: MEMSZ, MEMCTL, SWAP.
MEMSZ – Amount of physical memory allocated to a resource pool or virtual machine.
MEMCTL – Displays the memory balloon statistics. All numbers are in megabytes.

SWP – Whn the Vmkernel on the host is swapping memory to disk
MCILTGT – amount of physical memoery the ESCi system attempts to reclaim from the resource pool or virtual machine by of ballooning.

QUESTION NO: 27

An administrator has been tasked with creating a vSphere Standard Switch (vSS) for an ESXi host with the following specifications:

1. 116 virtual machines will be connected to the switch,

2. The switch wall have four uplinks configured for port-based load balancing.

3. The switch will act as a secondary heartbeat network for HA.

Which two statements are true about this configuration? (Choose two)

A. The configuration requires a Service Console Port
B. The configuration requires a VMkernel Port
C. A vSS created with default settings in the vSphere Client is insufficient for this configuration
D. A vSS created with 128 ports using the vSphere CLI is sufficient for this configuration

Answer: B,C
Explanation:
ESXi didn't have Service Console port
Page 11 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 28

A network administrator has discovered a failure that has affected accessibility to the management network As a result, none clusters are able to communicate on this network. The cluster was configured with default settings.

What happens as a result of the failure?

A. The VMs will be powered off on slave hosts in the cluster.
B. All VMs on all hosts in the cluster are unaffected.
C. The VMs will be powered off on slave hosts that cannot communicate with the master on the affected network.
D. The VMs will be powered down on all hosts in the cluster

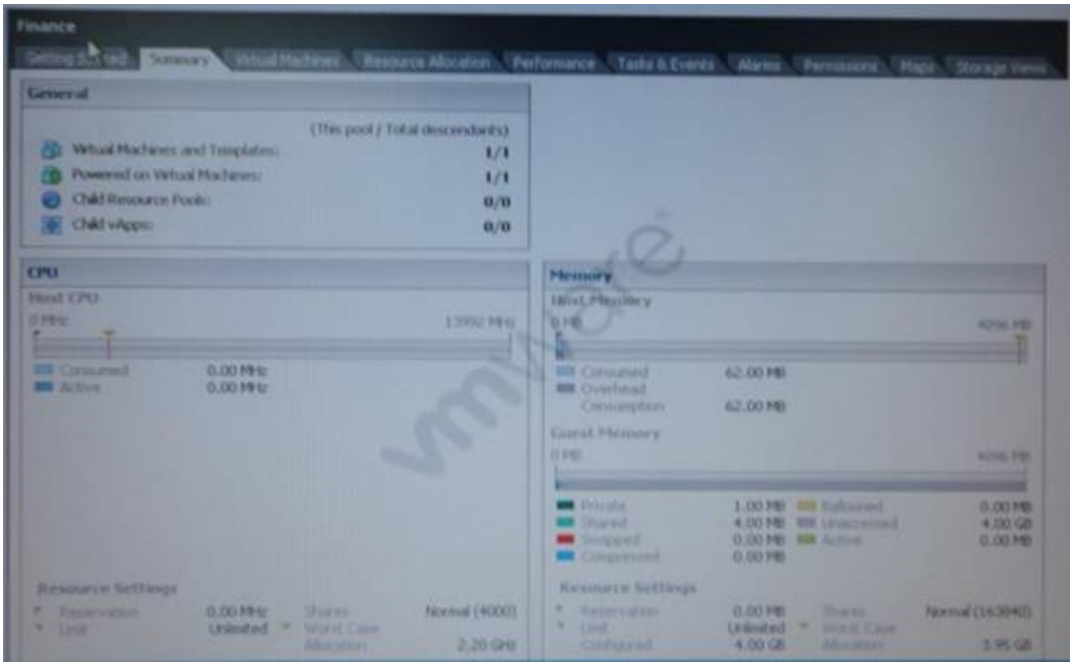
Answer: B

Explanation:

Page 24 from vsphere-esxi-vcenter-server-50-availability-guide.pdf

QUESTION NO: 29

Exhibit:



Assuming that this is the only virtual machine and the only resource pool, what is the maximum amount of memory that can be configured for use by the virtual machine that is part of the finance resource pool?

A. 16,384 MB, less virtual machine overhead
B. 57 MB less virtual machine overhead
C. 3,009 MB, less virtual machine overhead
D. 1 3,375 MB, less virtual machine overhead

Answer: C

Explanation:

QUESTION NO: 30

What is the traffic shaping adjustment?

A. Minimum bandwidth adjusted in kbps
B. Peak bandwidth adjusted in Mbps
C. Burst time in seconds
D. Burst size in KB

Answer: D

Explanation:

http://pubs.vmware.com/vsphere50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

QUESTION NO: 31

An administrator would like to have vCentre take action any time a virtual machine is using over 90% of its available resources for five minutes or longer.

Which three actions can be taken by vCenter Server in response to the trigger without running a script? (Choose three)

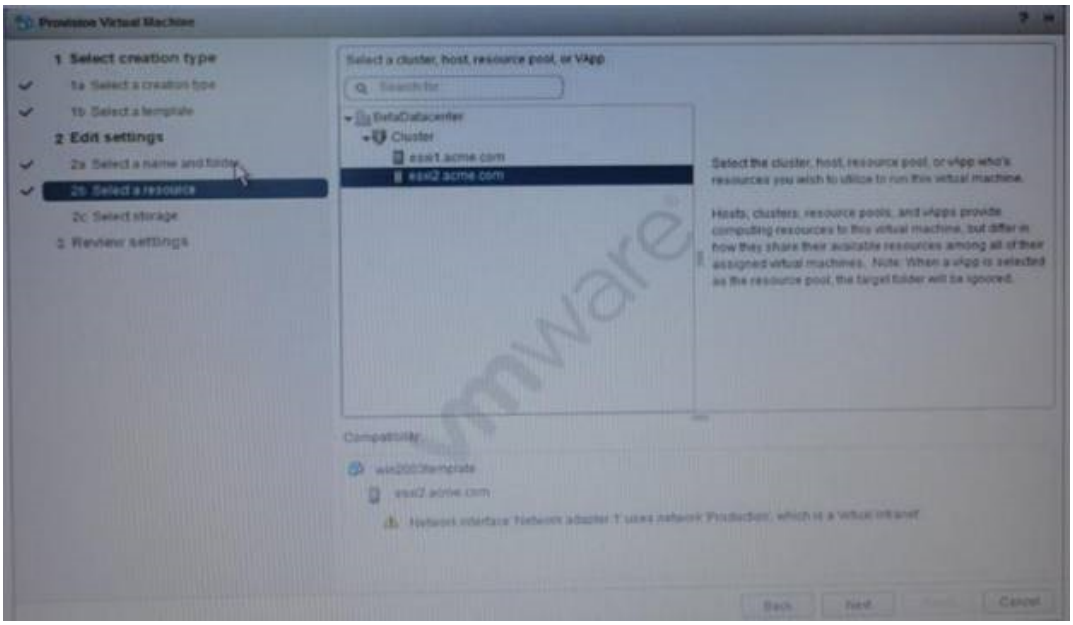
A. Increase Virtual Machine Memory
B. Reboot Guest on VM
C. Send notification trap (SNMP)
D. Increase Virtual Machine CPU Shares
E. Send notification email (SMTP)

Answer: B,C,E

Explanation:

QUESTION NO: 32

Exhibit:



ACME Logging Inc. has been using the vSphere Web Client template to five-node vSphere 5 cluster. After deploying a new template, the resulting virtual machine is not able to connect the deployment network to which it was assigned. When deploying another template, the message in the exhibit is shown.

Based on the information, what is the likely problem?

A. Host esxi2 does not have > network uplink attached to the Production vSwitch.
B. Host esxi2 does not have the Production network created to bind to.
C. DRS must be enabled if you are deploying templates into a cluster.
D. A vDS must be configured it you are deploying templates into a cluster.

Answer: A
Explanation:

The attached screenshot in test is a bit blurry but we think it is the following:
Network interface 'Network adapter 1' uses network 'Production', which is a 'virtual intranet'
We've tested this and the only way to reproduce this error was to create a vSwitch with no uplinks.
If you don't have the production network created on an other ESXi host the warning is Network interface 'Network adapter 1' uses network 'Production', which is not accessible
So we think the correct answer should be Host esxi2 does not have > network uplink attached to the Production vSwitch.
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003832

QUESTION NO: 33

Which two settings are required by the deployment wizard when installing the VMware vCenter Server Appliance? (Choose two)

A. Disk format
B. Amount of RAM
C. Cluster and/or Host
D. Size of me JVM Heap

Answer: A,C
Explanation:

QUESTION NO: 34

Which predefined vCenter Server role can perform tasks on ESXi host objects?

A. Datastore Consumer
B. Datacenter Administrator
C. Resource Pool Administrator
D. Administrator

Answer: D
Explanation:

QUESTION NO: 35

An administrator is troubleshooting an ESXi 5.x host and needs to export diagnostic information. The host is currently managed by a vCenter Server instance.

Which two ways can the information be gathered using the vSphere Client? (Choose two)

A. In the vSphere Client, select the affected ESXi host. Right-click the host and select export Diagnostic data. Select a location the location and click OK.

B. Select Home, Under Administration, click System Logs and click the export systemLogs button. Select the effected ESXi host. Select 'Select All'. Select a location and click Finish.
C. Select Home, Under Administration, click System Logs and select the affected ESXI host. Right-click the host and select Export Diagnostic Data. Select a location and click OK.
D. In the vSphere Client, select the affected ESXi host. Select File, Export and Export System Logs. Select a location and click Finish.

Answer: B,D

Explanation:

Using real lab to confirm the question answer.

QUESTION NO: 36

An administrator is configuring admission control settings for a vSphere HA cluster. The administrator selects the option Allow VMs to be powered on even They Violate Availability Constraints.

Which two events occur during an ESXi host failure? (Choose two)

A. Only virtual machines with a high restart priority are restarted on surviving ESXi hosts.
B. vSphere HA cannot guarantee that all virtual machines from a failed host will be restarted.
C. vSphere HA restarts virtual machines on surviving ESXi hosts with the most unreserved capacity.
D. Virtual machines can be powered on until the percentage of cluster resources reaches 25 percent.

Answer: B,C

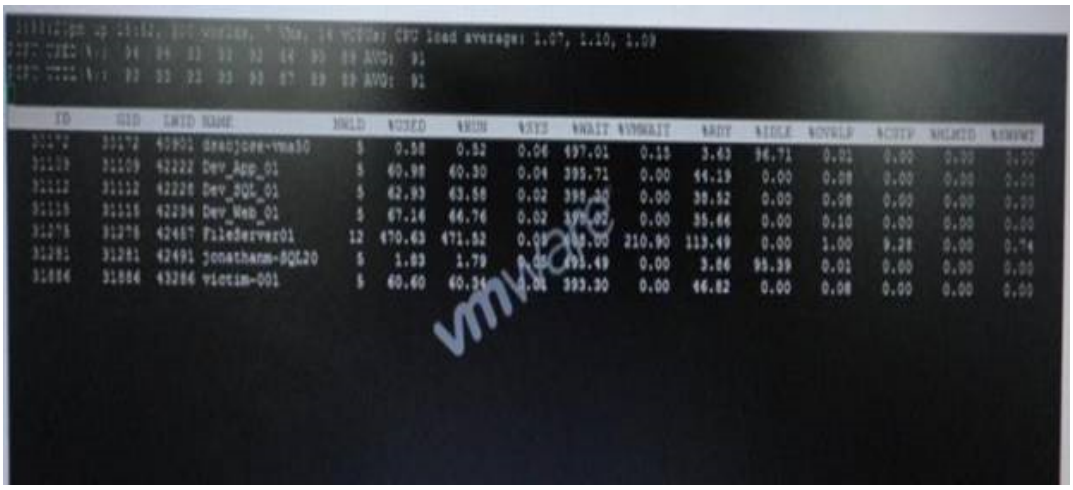
Explanation:

B: the VMs will be restarted according to the "Restart Priority" settings.

C: as admission control has been turned off, resources will not be guaranteed for the complete set of machines to failover.

QUESTION NO: 37

Exhibit:



ACME Catering Services is using esx top to troubleshoot a problem with one of their ESXi hosts Host disconnection from vCenter server as well as sluggish perform when performing tasks on the host have been observed.

Based on the output in tin- exhibit, what three corrective actions can be taken to resolve the issue? (Choose three)

A. Increase the CPU Reservation on file server01
B. Decrease the number of vCPUs in use on this host
C. Migrate the File Server00 virtual machine to another host
D. Increase the number of Physical CPUs in the host
E. Increase the amount of RAM in the host because swapping is occurring

Answer: B,C,D

Explanation:

QUESTION NO: 38

What VMware solution pools virtual infrastructure resource in a datacenter and delivers them to users as well as a catalog-based service?

A. VMware vCloud Director
B. VMware vCenter ConfigControl
C. VMware vCenter Orchestrator
D. VMware vSphere 5

Answer: A

Explanation:

Page 1 from vmware-vcloud-director-DS-EN.pdf

QUESTION NO: 39

Anvil Incorporated has several departments which each have unique resource requirements in their environment:

1. The Manufacturing department has three production virtual machines

2. The Manufacturing virtual machines need to have priority access to resources.

3. The development department has no specific resource requirements

Resource Pools will be used to address three requirements.

When creating the Manufacturing resource pool, which two settings might be configured to meet the stated requirements? (Choose two.)

A. Set the shares value to High for memory and CPU on the resource pool
B. Set a reservation for memory and CPU on the resource pool
C. Set affinity or anti-affinity rules to ensure that the Development VMs do not run on the same hosts as Production VMs
D. Set a limit for memory and CPU on the resource pool

Answer: A,B
Explanation:
Option A and B because Set Revervation and Shares in Resource Pool will give some priority in Manufacturing Resource Pool.
Set a limit in Manufacturing Resourse pool will limit resources use in resource pool.
Set Affinity or ant-affinity rule didn't change resource pool priority nether garantee resources to resource pool.

QUESTION NO: 40

An administrator has deployed a vSphere 5 implementation. Due to security reasons the system state of a virtual machine must be reverted on a regular basis what feature will meet this requirement?

A. Create the virtual machine using Independent-Persistent disks
B. Create a Scheduled Task using the Delete All Snapshots option according to security requirements
C. Create the virtual machine using Independent-Nonpersistent disks
D. Create a Scheduled Task using the Delete Snapshot option to delete the most recent snapshot according to security requirements.

Answer: C
Explanation:

QUESTION NO: 41

A company runs several instances of multi-threaded application that requires virtual machines to be configured with multiple vCPUs.

Which metric is checked to determine if CPU contention exists on an ESXi 5.x host?

A. %RUN
B. %WAIT
C. %USED
D. %RDY

Answer: D
Explanation:
http://communities.vmware.com/docs/DOC-9279
"%WAIT"
The percentage of time the world spent in wait state.
This %WAIT is the total wait time. I.e., the world is waiting for some VMKernel resource. This wait time includes
I/O wait time, idle time and among other resources. Idle time is presented as %IDLE.
"%RDY"
The percentage of time the world was ready to run.
A world in a run queue is waiting for CPU scheduler to let it run on a PCPU. %RDY accounts the percentage of
this time. So, it is always smaller than 100%.
+Q: How do I know CPU resource is under contention?+
+A: %RDY is a main indicator. But, it is not sufficient by itself.+

QUESTION NO: 42

Which vSwitch port group policy setting allows packets to be created by a virtual machine with different source MAC addresses MAC address?

A. Promiscuous mode
B. Traffic shaping
C. Forged transmits
D. MAC address changes

Answer: C

Explanation:

Page 61 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 43

An administrator is using Update Manager 5.0 to update virtual appliances in a vSphere environment. The environment is using the vCenter Server appliance. The administrator is unable to remediate the vCenter Server appliance.

What would cause the remediation to fail?

A. Updating of the appliance can only be done if the vCenter Server Appliance has been
B. Remediation must be configured on the Appliance Administration page before use
C. Remediation of the vCenter Server Appliance with Update Manager is not supported
D. Remediation of the vCenter Server Appliance must be done from the PowerCLL

Answer: C

Explanation:

QUESTION NO: 44

Which three configuration settings will be migrated when upgrading a host from ESX 4.x Classic to ESXi 5.x? (Choose three)

A. The NTP configuration in /etc/ntp.conf
B. The syslog configuration in /etc/syslog.conf
C. The name resolution information in /etc/resolv.conf
D. The hostname information in /etc/hosts
E. The time zone configuration in /etc/localtime

Answer: A,C,D

Explanation:

QUESTION NO: 45

What is the size of a virtual machine .vswp file if defaults are accepted for the virtual machine reservations, limits, and shares?

A. The virtual machine. vswp file is equal to twice the amount of available memory configured for the virtual machine when it was created.
B. The virtual machine. vswp file is equal to the amount of virtual memory (virtual machine available memory, plus virtual machine overhead) configured for the virtual machine when it was created.
C. The virtual machine. vswp file is equal to zero length when the virtual machine is created and expands as necessary
D. The virtual machine. vswp file is equal to the amount of available memory configured for the virtual machine when it was created.

Answer: D

Explanation:

The size of the file goes maximum to the size of the memory allocated to the Virtual machine. Incase of reservation, it will be "Size of memory" - "Amount of memory reserved".

QUESTION NO: 46

Which three features are only available when using a vNetwork Distributed Virtual Switch? (Choose three)

A. NetFlow Monitoring
B. 802 3ad Link Aggregation
C. Network I/O Control
D. Egress Traffic Shaping
E. Ingress and Engress Traffic Shaping

Answer: A,C,E

Explanation:

Reference: vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 47

An iSCSI array is being added to a vSphere5 implementation. An administrator wants to verify that all IP storage VMkernel interfaces are configured for jumbo frames.

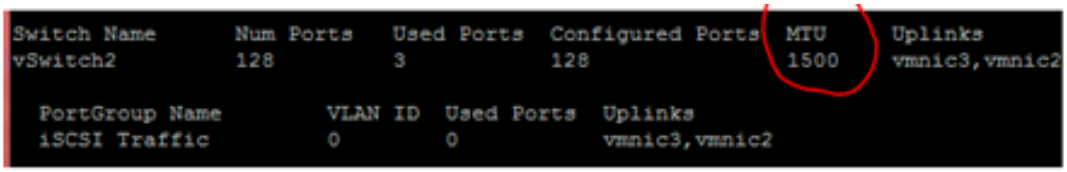
What are two methods to verify the configuration? (Choose two)

A. Run the esxcli network IP interface list command
B. Run the esxcfg-vswitch -l command
C. View the VMKernel interface properties in the vSphere Client
D. View the Network Adapter properties in the vSphere Client

Answer: B,C

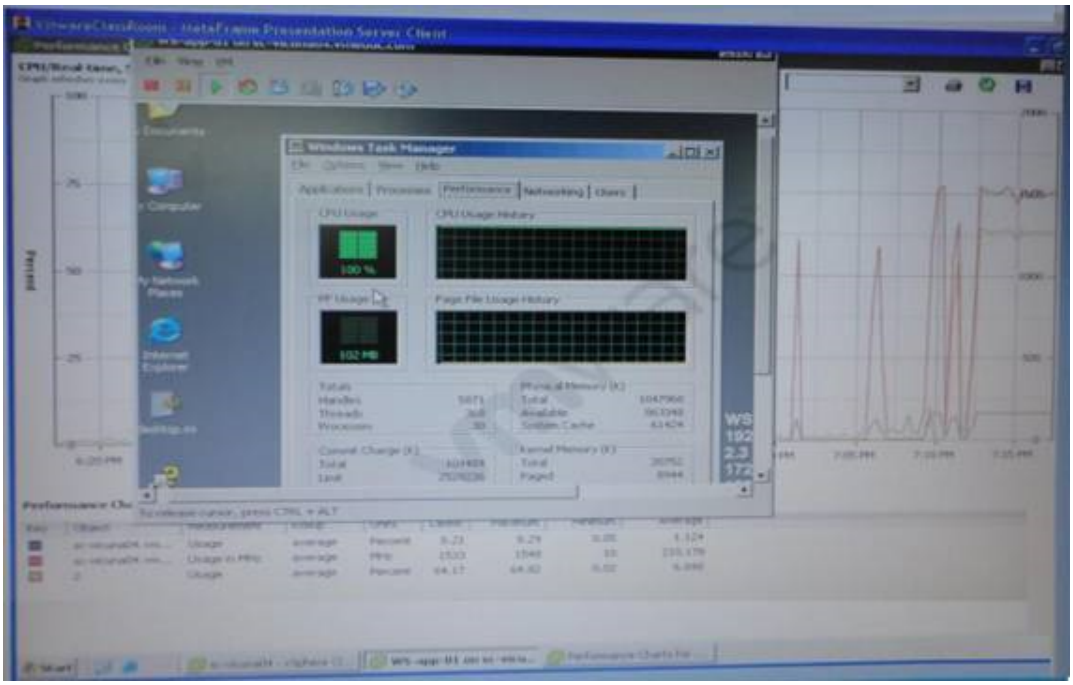
Explanation:

The output of esxcfg-vswitch -l command gives the following:



QUESTION NO: 48

Exhibit:



An administrator has deployed a new virtual machine on an ESXi host. Users are complaining of poor performance on the virtual machine performance tool display the result shown in the exhibit.

Which two might improve the user experience? (Choose two)

A. Add a vCPU to the virtual machine
B. Remove CPU affinity on the advanced CPU setting of the virtual machine
C. Migrate the virtual machine to another ESXi host
D. Remove the limit on the CPU settings of the virtual machine

Answer: A,D
Explanation:
The picture shows CPU at 100% in VM, not CPU shortage on ESX server.
A, D - these 2 options both increase the amount of CPU allocated to VM
B,C - these 2 options change the physical CPU allocated to VM, but this was not the problem shown

QUESTION NO: 49

Which two statements are about Unplanned Device Loss in a vSphere 5 environment?

(Choose two)

A. It is condition where an ESXi host determines a device loss has occurred that was not planned.

B. Performing a storage rescan restores access to determine why device loss occurred.
C. It is a condition where an ESXi host is unable to determine why device loss occurred.
D. Performing a storage rescan removes the persistent information related to the device.

Answer: C,D

Explanation:

Page 132 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 50

An administrator is creating a virtual machine that will be running "Windows 2008 Enterprise (64-bit). The application to installed in the virtual machine requires eight vCPUs to run effectively. During installation, the only available options are one, two, three, or four vCPUs.

What condition explains the available vCPU selections?

A. The virtual machine hardware version is 8.
B. The guest operating system for the virtual machine is 64-bit
C. The ESXi host has two AMD dual-core CPUs
D. The ESXi host has two Intel dual-core CPUs

Answer: C

Explanation:

Intel has HT technology and AMD does not. So with a 2 x dual core Intel CPUs you would make a 8 vCPU virtual because it has 4 physical cores but 8 logical.
Where 2 x AMD dual core CPUs can only make a 4 vCPU virtual.

QUESTION NO: 51

What are two valid default upgrade baselines included with vSphere Update Manager?

(Choose two)

A. VMFS Upgrade to Match Host
B. VMware Tools Upgrade to Match Host

C. VA Upgrade to Latest
D. Host Upgrade to Latest

Answer: B,C

Explanation:
Reference: vsphere-esxi-vcenter-server-50-upgrade-guide.pdf

QUESTION NO: 52

What is the most appropriate way to test a virtual machine enabled for VMware Fault Tolerance?

A. Cause a failure on the ESXi host running the primary virtual machine
B. Cause a failure on an application within the primary virtual machine
C. Disable network connectivity to the primary virtual machine
D. Cause a failure on the primary virtual machine

Answer: D

Explanation:
Source: http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1020058
The following are proper testing scenarios with their expected outcomes:
Note: The following tests assume two hosts, Host A and Host B, with the primary fault tolerant virtual machine running on Host A and the secondary virtual machine running on Host B.
Select the Test Failover Function from the Fault Tolerance menu on the virtual machine.
This tests the Fault Tolerance functionally in a fully supported and non-invasive way. In this scenario, the virtual machine fails over from Host A to Host B, and a secondary virtual machine is started back up again. VMware HA failure does not occur in this case.
Host A complete failover
This scenario can be accomplished by pulling the host power cable, rebooting the host, or powering off the host from a remote KVM (such as iLO, DRAC, or RSA). The secondary virtual machine on Host B takes over immediately and continues to process information for the virtual machine. VMware HA failover occurs.
Virtual machine process on Host A fails
This scenario can be accomplished by terminating the active process for the virtual machine by logging into Host
A. The secondary virtual machine takes over and no VMware HA failure occurs. VMware does not recommend testing in this way. For more information on terminating a virtual machine, see Powering off an unresponsive virtual machine on an ESX host (1004340)

QUESTION NO: 53

What are two network load-balancing policies for a vNetwork Distributed Switch? (Choose two)

A. Route based on source destination MAC hash
B. Route using Round Robin
C. Route based on the originating virtual port ID
D. Route based on IP hash

Answer: C,D
Explanation:

Correct answer should be " Route based on the originating virtual port ID " & " Route based on IP hash ". They are word for word the load balancing description given in the 'vsphere-esxi-vcenter-server-50-network-guide.pdf" on page 64 referring to Distributed switches.
Answer „Route based on source destination MAC hash“ mentions source & destination which is NOT correct! Route based on source destination mac address" doesn't exist.

QUESTION NO: 54

An administrator is considering deploying a new storage array for a vSphere 5 implementation. If the array supports the vStorage APIs for array integration (VAAI), which two tasks can be performed directly by the array? (Choose two.)

A. creating VMFS datastores
B. cloning virtual machines and templates
C. migrating virtual machines using Storage vMotion
D. creating NFS datastores

Answer: B,C
Explanation:
http://www.vmware.com/products/vstorage-apis-for-array-integration/overview.html

QUESTION NO: 55

Which two iSCSI adapters require one or more VMkernel ports? (Choose two.)

A. Independent Hardware iSCSI Adapter
B. Software iSCSI Adapter
C. Adaptive Software iSCSI Adapter
D. Dependent Hardware iSCSI Adapter

Answer: B,D

Explanation:

Page 65 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 56

An administrator receives a call indicating users reported extremely slow access to virtual machines the previous evening. Access to virtual machines performs as expected as checked by the administrator. Over the course of several days, the administrator continues to receive calls about the issue, which appears to occur at intermittent times each evening.

Which step can be taken to collect information about the issue?

A. Create a condition alarm to alert when Datastore Disk Usage (*) exceeds 70%
B. Collect resxtop performance data in batch mode and analyze total number of I/O operations (CMDS/s) metrics
C. Create an event alarm to alert when a storage device is disconnected
D. Collect resxtop performance data in batch mode and analyze average device latency (DAVG/cm-d) metrics.

Answer: D

Explanation:

QUESTION NO: 57

An administrator wishes to send traffic from a vNetwork Distributed Switch to a collector virtual machine for analysis. vSphere 5 has been deployed in the datacenter.

Which two configurations will enable the functionality? (Choose two)

A. The source and target virtual machines must be on the same vNetwork Switch.
B. The source and target virtual machines must both be on a vNetwork Switch, but can be on any vDS in the datacenter.
C. The port group on the distributed port must have Promiscuous Mode enabled.
D. The port group on distributed port must have NetFlow enabled.

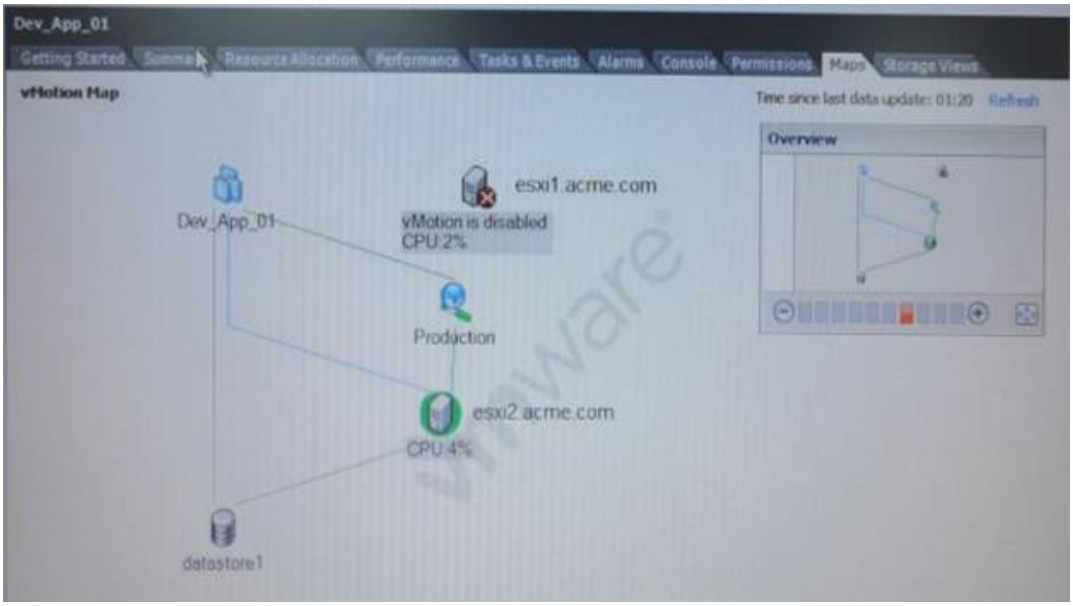
Answer: B,D

Explanation:

Page 70 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 58

Exhibit:



An administrator is configuring vMotion in their environment. As a part of the implementation, an administrator is examining resource mapping for virtual machines.

What is a likely cause of the error shown in the exhibit?

A. vMotion has been disabled because the Production network does not exist on both ESXi host.
B. vMotion has not been enabled on the Production port group.
C. vMotion has not been enabled on a VMkernel port group.
D. vMotion has been disabled because datastored is not presented to both ESXi hosts.

Answer: C

Explanation:
This only shows up in the Maps when the vmotion OPTION is not checked in the PORT group - hence vMotion is DISABLED!
Other Notes: vMotion doesn't need a "production" network it can use any network. It also should not be using a "production" network. Datastore has nothing to do with vMotion in this diagram - this is Maps - it would give a vmotion error if it wasn't on the datastore not a vmotion disabled..
Please see: http://cosonok.blogspot.com/2011/10/vcp510-vcp-on-vsphere-5-exam-cram-notes.html

QUESTION NO: 59

An administrator has recently upgraded their Update manager infrastructure to vSphere 5. Several hosts and virtual machines have not been upgraded yet.

Which vSphere object cannot be upgraded by Update Manager when running against a legacy host?

A. Virtual Machine Hardware
B. ESX Host
C. ESX Patches
D. VMware Tools

Answer: A

Explanation:
Reference:

http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-update-manager-50-install-administration-guide.pdf

QUESTION NO: 60

In the vSphere Client, the Resource Allocation tab for virtual machines displays host memory and guest memory. Which two statements best describe these terms? (Choose two.)

A. Guest memory is the amount of physical memory that has been allocated to a virtual machine
B. Host memory is the amount of physical memory that has been allocated to a virtual machine.
C. Guest memory is the memory usage of a virtual machine.

D. Host memory is the memory usage of a virtual machine.

Answer: B,C

Explanation:

QUESTION NO: 61

An administrator finds that vMotion and Storage VMotion operations do not succeed on a virtual machine. The virtual machine has been configured with N_Port ID Virtualization. The virtual machine has two data RDMs, one using a RAID 5 LUN on using a RAID0+1 LUN. The mapping file for RAID 5 LUN was created on the same datastore as the virtual machine, and the mapping file for the RAID0+1 LUN was placed in a datastore used for production data virtual disks.

Which two statements are true about this configuration? (Choose two)

A. vMotion cannot be used unless boot mapping files are placed on the same datastore.
B. Storage vMotion cannot be used unless both mapping files are placed on the same datastore.
C. Storage vMotion cannot be used with NPIV.
D. vMotion cannot be used with NPIV

Answer: A,C

Explanation:

vMotion cannot be used unless RDM boot mapping files are placed on the same datastore & storage vMotion cannot be used with RDMs using NPIV.

You can VMotion with NPIV, however, make sure the RDM file is located on the same datastore where the VM configuration file resides. Storage VMotion or VMotion between datastores isn't allowed with NPIV enabled.

QUESTION NO: 62

A series of Auto Deploy ESXi hosts which utilize vDS are unable to boot. In prior testing all of the hosts were able to boot successfully.

Which two conditions might cause this issue? (Choose two)

A. The hosts have experienced a network error.
B. The Auto Deploy server permissions are invalid.
C. vCenter Server is down.
D. The hosts have experienced a local disk error.

Answer: A,C

Explanation:

A. the hosts have experienced a network error.
Anyone who has ever worked with AutoDeploy knows how critical the network infrastructure is. Everything from the DHCP server being online and configured correctly, the TFTP server being online and configured correctly to the switching/routing infrastructure needs to be spot on for an image to be pulled over the network. **AutoDeploy has everything to do with the network!**

B. the AutoDeploy server permissions are invalid
What permissions are we talking about here? You can search the whole AutoDeploy guide and you will see no reference to permission problems being related to troubleshooting.

C. vCenter server is down
Absolutely this is correct. **The ESXi hosts require vCenter online to retrieve the image.**

D. the hosts have experienced a local disk error
A big advantage to AutoDeploy is not relying on local disks. This option is clearly incorrect.

QUESTION NO: 63

What are three true statements about quiescing virtual machine snapshots? (Choose three)

A. VMware Tools is not required for quiescing to be successful.
B. The operation ensures that the snapshot includes a power state.
C. The operations may alter the behavior of applications within the virtual machine.
D. The operation ensures all pending disk I/O operations are written to disk.
E. VMware Tools is required for quiescing to be successful.

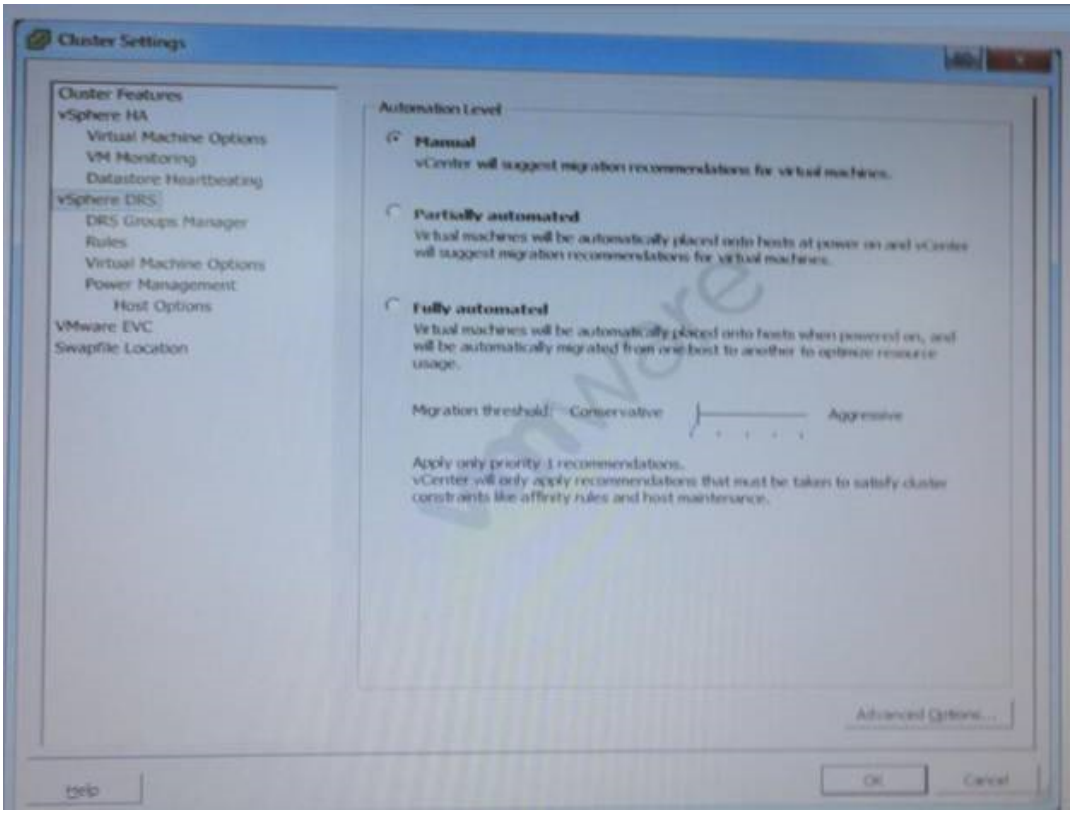
Answer: C,D,E

Explanation:

Quiescing doesn't allow you to capture a powerstate - the snapshot does that... Quiescing only affect
applications in I/O within the VM. This is why if you snapshot a VM that is running without VMware tools it will snapshot but can also break the VM. For example try snapshotting active directory VM without VMware tools. Eventually it will break it if won't the first time.

QUESTION NO: 64

Exhibit:



An administrator is applying patches to a batch of ESXi 5.x hosts in an under-allocated HA/DRS cluster. An attempt is made to place the host into maintenance mode, but the progress has stalled at 2%. DRS are configured as shown in the exhibit. Of the four choices below, two would effectively resolve this issue.

Which two steps could be taken to correct the problem? (Choose two.)

A. Manually migrates any running virtual machines to another host
B. Set the cluster to Fully Automated
C. Disable HA Monitoring to allow Maintenance Mode to proceed
D. Set the cluster migration threshold to Aggressive

Answer: A,B

Explanation:

If your HA cluster has not enough resources, the ESX will not enter in maintenance mode at all, it will not stall at 2%.

If the process stall at 2 %, it's because it's waiting something : you move VMs. Manually (answer A) or automatically (answer B).

QUESTION NO: 65

A virtual machine, VM21, will be migrated between two ESXi 5.x hosts, labeled ESXi01 and ESXi02. Each host has two vSphere Standard Switches (vSS), configured as follows:

1. vSwitch0 has a port group labeled management and a port group labeled vMotion.

2. The management port group contains a vmkernel port tagged for management traffic.

3. The vMotion port group contains a vmkernel port tagged for vMotion traffic.

4. vSwitch0 on ESX01 has an uplink attached to the 10.1.30.0/24 network.

5. vSwitch0 on ESX02 has an uplink connected to the 10.1.30.0/24 network.

6. Each host has a vSwitch 1 with a production port group used by virtual machine traffic.

7. Each vSwitch 1 has an uplink attached to the 10.1.40.0/24

What is true about migrating VH21 to the new host?

A. vMotion would be supported in this configuration
B. Storage vMotion would not be supported in this configuration
C. vMotion would not be supported in this configuration
D. Storage vMotion would be supported it the storage device supports

Answer: A
Explanation:

QUESTION NO: 66

When you are configuring the vSwitch NIC teaming policy, what happens when the Notify Switches option is set to yes?

A. The physical switch is notified when the virtual NIC link state changes.
B. The physical switch is notified when the location of a virtual NIC changes.
C. The virtual switch is notified when the location of a physical NIC changes.
D. The virtual switch is notified when the physical NIC link state changes.

Answer: B
Explanation:
Page 46 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 67

Users are experiencing performance issue when updating their database hosted on a virtual machine. The administrator determines that I/O is high across all HBAs on the ESXi host containing the virtual machine.

What actions will most likely correct the issue without significantly impacting other users?

A. Manually configure the disk multipathing policies to fix for each datastore.
B. Migrate the virtual machine to a less used datastore with storage vMotion.
C. Use vMotion to migrate the Virtual machine to another ESXi host.
D. Map additional LUNs to the ESXi host and extend the datastores.

Answer: C
Explanation:

QUESTION NO: 68

Which two settings determine the amount of memory overhead required by a virtual machine? (Choose two)

A. Reserved memory
B. Configured memory
C. Guest operating system (32- or 64-bit)
D. Number of vCPUs

Answer: B,D
Explanation:

QUESTION NO: 69

What are three valid objects to place in a vApp? (Choose three)

A. Folders
B. Hosts
C. Resource pools
D. vApps
E. Virtual machines

Answer: C,D,E
Explanation:
http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

QUESTION NO: 70

An administrator plans to use an upgrade script to upgrade a number of ESXi hosts.

Which two settings are requirements for the kick start file? (Choose two.)

A. Keyboard layout
B. Root password
C. Install location
D. IP address

Answer: B,C
Explanation:
Page 46 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

QUESTION NO: 71

A VMFS3 datastore has just been upgraded to VMFS5.

In what two ways does this affect the partition format? (Choose two)

A. The partition format is retained, which is the MBR (Master Boot Record) format.
B. The partition format is retained, which is the MBR (Master Boot Record) format. To change the GPT (Guide Partition table) format, the datastore must be re-formatted.
C. The partition format is retained, but will be upgraded to GPT (GUID Partition Table) format once the datastore exceeds 2TB.
D. The partition format is upgraded to the GPT (GUID Partition table) format

Answer: A,C
Explanation:

QUESTION NO: 72

An administrator has deployed a vCenter Server Appliance to manage a virtual environment. The administrator has been asked to develop a plan for handling major upgrades to the appliance.

What should be included in the upgrade plan?

A. Utilize vCenter Configuration Manager to upgrade the vCenter Server Appliance in place.
B. Install a new vCenter Server Appliance and import the information from the existing vCenter Server Appliance.
C. Install a new vCenter Server Appliance over the existing vCenter Server Appliance.
D. Utilize Update Manager to upgrade the vCenter Server Appliance in place.

Answer: B
Explanation:

QUESTION NO: 73

Using the vSphere Client from a remote PC, an administrator wants to connect a virtual machine and burn a DVD.

What is true about this scenario?

A. The host device must be used. The virtual machine must be configured for Host Device and Passthrough IDE mode.
B. The remote client device can be used. The virtual machine must be configured for Host Device and Emulate IDE mode.
C. The host device must be used. The virtual machine must be configured for Host Device and Emulate IDE mode.
D. The remote client device can be used. The virtual machine must be configured for Host Device and Passthrough IDE mode.

Answer: D

Explanation:

You can do remote pass through to whatever system runs the vcenter client.

QUESTION NO: 74

A vNetwork Standard Switch has been configured for IP based load balancing uplinks. A new uplink is added to the switch.

How will the additional uplink be configured by default?

A. The uplink is placed in standby mode until it is added to the active NIC team.
B. The uplink is considered active, active but it will not participate in the active NIC team until assigned to a port group.
C. The uplink automatically becomes a part of the IP-based NIC team.
D. The uplink is marked as unused until it is added to the active NIC team.

Answer: C

Explanation:

Not > The uplink is considered active, but it will not participate in the active NIC team until assigned to a port group.

When you add an uplink, to a vSS it becomes active for its port groups too. Read the link below it states "By default, new adapters are active for all policies. New adapters carry traffic for the standard switch and its port group unless you specify otherwise."

QUESTION NO: 75

A vSphere 5 environment has an ESXi 5 x host configured to boot from a Software iSCSI adapter.

What is the expected outcome if the administrator attempts to disable the iSCSI Software adapter?

A. The adapter will be disabled, but is re-enabled the next time the host boots up.
B. The adapter will be disabled and the host will not boot the next time the host boots up
C. The adapter will not be disabled and the vSphere Client will return an error message
D. The adapter will be enabled, but the host will boot into troubleshooting mode the next time the host boots

Answer: A

Explanation:

http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-3B5AF2B1-C534-4426-B97A-D14019A8010F.html

QUESTION NO: 76

An administrator is using vSphere auto deploy to Deploy 25 ESXi hosts. The information used for deployment will be stored using an answer file.

What are three ways that auto deploy can access the answer file? (Choose three)

A. ISO
B. CIFS
C. SFTP
D. HTTP
E. NFS

Answer: C,D,E

Explanation:

QUESTION NO: 77

Which two conditions will prevent a virtual machine from being successfully migrated using Storage vMotion? (Choose two)

A. The virtual machine has active snapshots
B. The virtual machine has an in progress installation of VMware Tools.
C. The virtual machine has a disk that is configured as independent non-persistent.
D. The virtual machine has a disk that is configured as persistent.

Answer: B,C

Explanation:

QUESTION NO: 78

A host failure occurs in vSphere HA cluster, but virtual machines from the failed host are not restarted on the surviving nodes in the cluster.

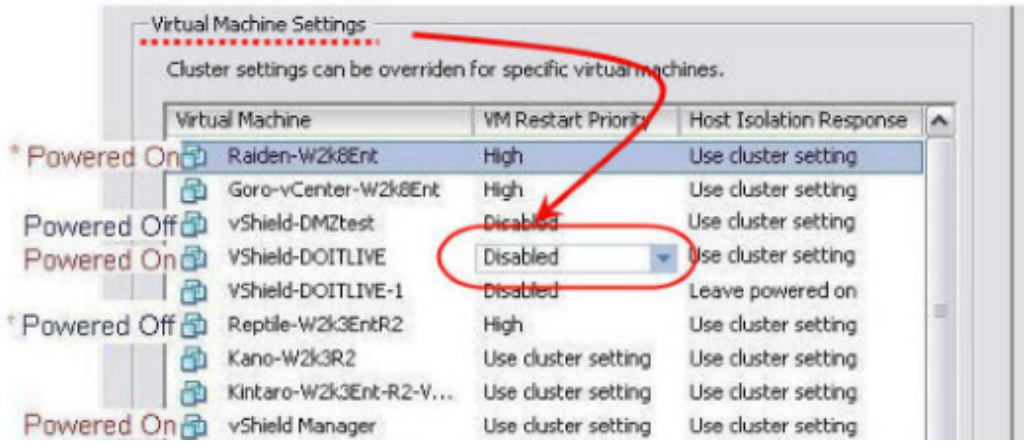
Which two conditions explain this behavior? (Choose two)

A. HA has been configured to use a dedicated failure host, and the failed host is designated failover host.
B. An anti-affinity rule configured and restarting the VMs would place them on the same host.
C. The virtual machines on the failed host are HA disabled.
D. Host Monitoring is disabled

Answer: C,D

Explanation:

You can disable HA at the VM level:



QUESTION NO: 79

Which vSphere feature cannot be used with virtual machines that are enabled for VMware Fault Tolerance? (Choose two)

A. EVC
B. Storage vMotion
C. RDMs in virtual compatibility mode
D. VMware SMP

Answer: B,D
Explanation:

QUESTION NO: 80

An administrator must decommission a datastore.

Before unmounting the datastore, which three requirements must be fulfilled? (Choose three)

A. No virtual machines reside on the datastore.
B. The datastore is not used for vSphere HA heartbeat.
C. The datastore must not have any contents.
D. The datastore must not be part of a datastore cluster.

Answer: A,B,D
Explanation:

QUESTION NO: 81

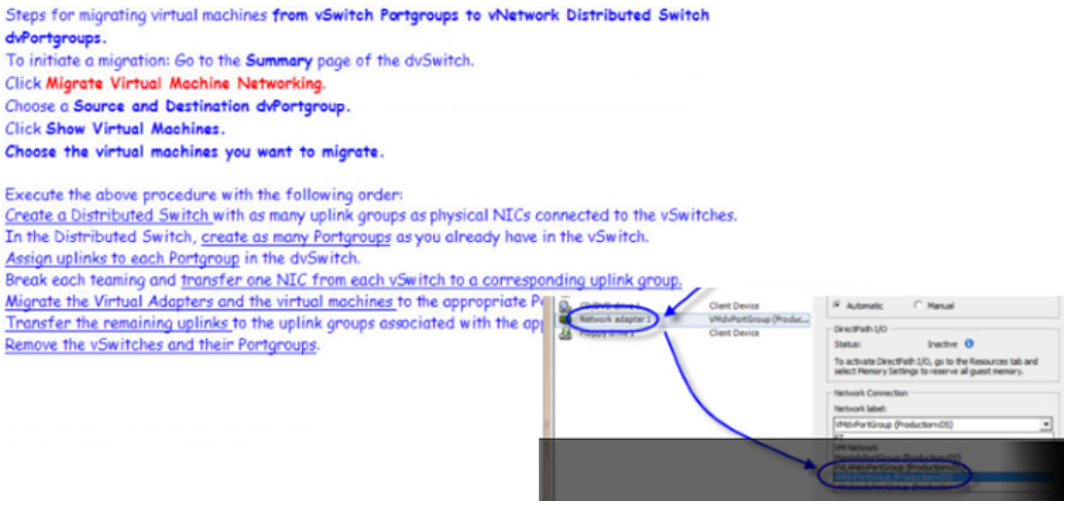
Which two methods can be used to migrate a virtual machine from a vNetwork Standard to a vNetwork Distributed Switch? (Choose two)

A. Edit the virtual adapter settings for the ESXi host and select a dvPort group from the list.

B. Migrate the port group containing the virtual machine from a vNetwork Standard Switch using the Migrate Virtual machine networking option.
C. Use the Migrate Virtual machine networking option to select the virtual machine from a list of virtual machines.
D. Edit the Network Adapter settings for the virtual machine and select a dvPort group from the list.

Answer: B,D

Explanation:



QUESTION NO: 82

An administrator has received calls about a virtual machine experiencing intermittent application issues during the evening. To troubleshoot, the administrator needs to capture the virtual machine in the state it is in during the evening hours for later analysis.

Which two tasks would accomplish this requirement? (Choose two)

A. Create a scheduled task to clone the virtual machine once per evening
B. Create an alarm that is triggered when a loss of VMware Tools heartbeat to the virtual machine occurs.
C. Use esxtop in batch mode and capture metrics during the evening hours.
D. Create a scheduled task to create a snapshot of the virtual machine once per evening

Answer: C,D

Explanation:

QUESTION NO: 83

An administrator wants to determine the current network adapter configuration for an uplink on an ESXi host.

Which three items can be viewed from the Network Adapter section Configuration tab, using the vSphere client? (Choose three)

A. Observed IP ranges
B. TCP segmentation offloads (TSO) support
C. Adapter speed
D. Jumbo frames support
E. Wake on LAN support

Answer: A,C,E

Explanation:

page 9 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 84

Which two types of information can be obtained about a VMFS datastore using the Storage Views tab in the vSphere Client? (Choose two.)

A. Multipathing status for the datastore
B. vmhba adapter used to access the datastore
C. Space used in the datastore
D. Runtime name of the datastore

Answer: A,C

Explanation:

QUESTION NO: 85

Which three storages I/O Control conditions might trigger the Non-VI workload detected on the datastore alarm? (Choose three)

A. The datastore is connected to an ESX/ESXi 4.0 host that does not support Storage I/O Control.
B. The datastore is on an array that is performing system tasks such as replication.
C. The datastore is utilizing active/passive multipathing or NMP (Native Multi-Pathing)
D. The datastore is storing virtual machines with one or more snapshots.
E. The datastore is connected to an ESX/ESXi 4.0 host that is not managed by vCenter

Answer: A,B,E

Explanation:

This alarm may appear in the vCenter vSphere Client:

Non-VI workload detected on the datastore

A warning message similar to one of these may also appear in the vCenter vSphere Client:

An external I/O activity is detected on datastore “<datastore>”, this is an unsupported configuration. Consult the Resource Management Guide or follow the Ask VMware Link for more information
An external I/O workload is detected on datastore “<datastore>”
This informational event alerts the user of a potential misconfiguration or I/O performance issue caused by a non-ESX workload. It is triggered when Storage I/O Control (SIOC) detects that a workload that is not managed by SIOC is contributing to I/O congestion on a datastore that is managed by SIOC. (Congestion is defined as a datastore's response time being above the SIOC threshold.) Specific situations that can trigger this event include:

*The host is running in an unsupported configuration. (implies A)
*The storage array is performing a system operation such as replication or RAID reconstruction. (implies B)
*VMware Consolidated Backup or vStorage APIs for Data Protection are accessing a snapshot on *the datastore for backup purposes.
*The storage media (spindles, SSD) on which this datastore is located is shared with volumes used by non-vSphere workloads (implies E)
SIOC continues to work during these situations. This event can be ignored in many cases and you can disable the associated alarm once you have verified that none of the potential misconfigurations or serious performance issues are present in your environment. As explained in detail below, SIOC ensures that the ESX workloads it manages are able to compete for I/O resources on equal footing with external workloads. This event notifies the user of what is happening, provides the user with the opportunity to better understand what is going on, and highlights a potential opportunity to correct or optimize the infrastructure configuration.

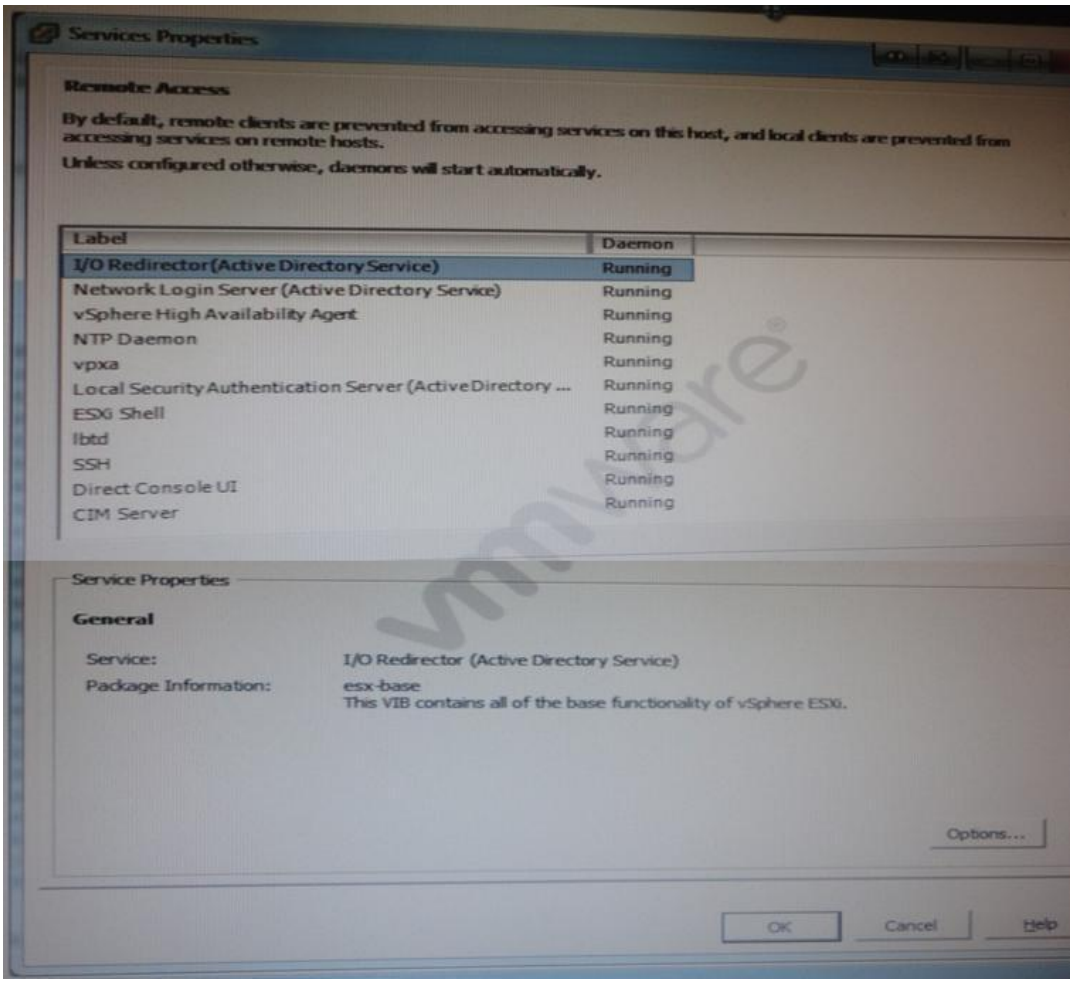
Note: SIOC detects the moment when external workloads, not under SIOC’s control, may be impacting the virtual environment’s storage

resources. When SIOC detects an external workload, it will trigger a “Non-VI workload detected” informational alert in vCenter. In
most cases, this alert is purely informational and requires no action on the part of the vSphere administrator. However, the alert may
be an indicator of an incorrectly configured SIOC environment. vSphere administrators should verify that they are running a supported
SIOC configuration and that all datastores that utilize the same disk spindles have SIOC enabled with identical SIOC congestionthreshold values. The alert might also be triggered by some backup products and other administrative workloads that bypass the ESX
host and directly access the datastore in order to accomplish their tasks. SIOC is supported in these configurations and the alert can
be safely ignored for these products. Refer to VMware KB article 1020651 for more details on the “Non-VI workload detected” alert.

Referece:
VMware KB article 1020651
VMW-vSphere41-SIOC.pdf, page 10

QUESTION NO: 86

Refer to the Exhibit.



10 ESXi 5.x hosts will be installed as part of vSphere 5 deployment. Security hardening is required as part of the installation. The current security profile is displayed in the exhibit.

Which three services shown in the exhibit can be disabled to secure the hosts with nominal impact to administrative operation? (Choose three)

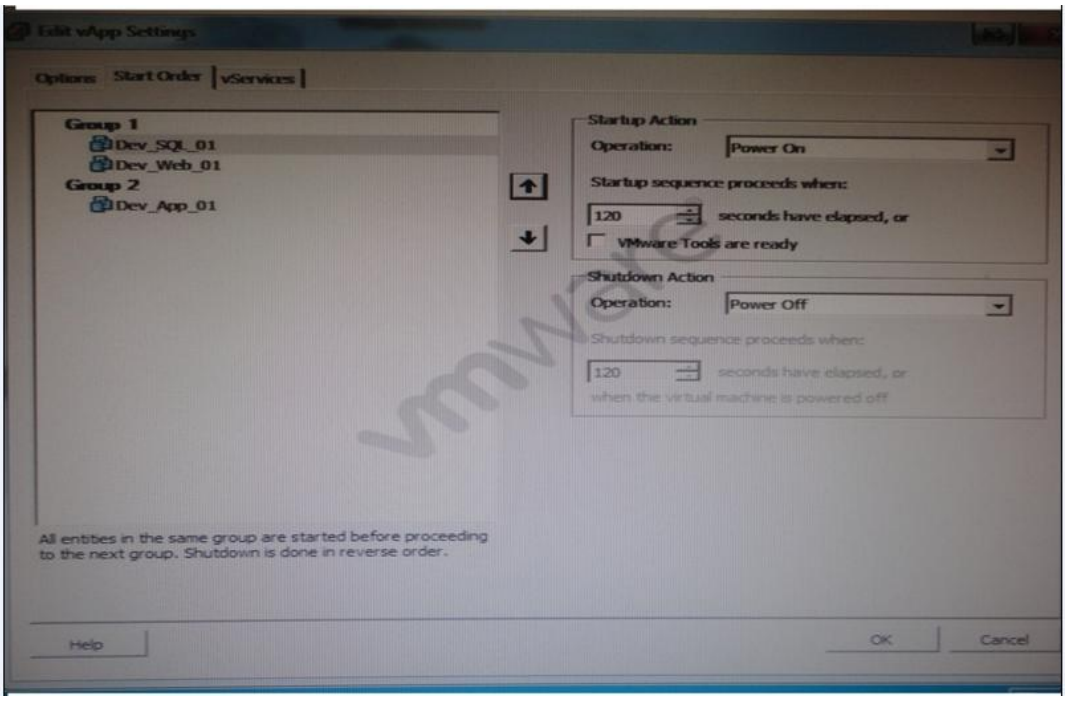
A. Network login server (Active Directory Service)
B. SSH
C. ESXi Shell
D. Direct Console UI
E. vpxa

Answer: B,C,D

Explanation:

QUESTION NO: 87

Exhibit:



An administrator is creating a vApp for a multi-tiered web application. The vApp has been as shown in exhibit. Testing of the vApp indicates that attempts to communicate with the web server on Dev_Web_01 fail.

A. Change the startup sequence to startup when VMware Tools is ready
B. Change the Startup Sequence value from 120 to 240
C. Move the Dev_Web_01 virtual machine to Group 3
D. Move the Dev_SQL_01 virtual machine to Group 2 and move the Dev_App_01 virtual machine to Group 3

Answer: C

Explanation:

This is a classic 3 tier web app which always has a specific start up process.

DB -> App -> Web

QUESTION NO: 88

Several virtual machines residing in a resource pool are exhibiting poor performance and critical virtual machines in the pool appear hung. The resource pool has been allocated exactly 500MHz of CPU and does not have the option selected. The cluster in which the resource pool resides has a total of 6000MHz, with 1000MHz available.

Which step can be used to increase the performance of the critical Virtual Machines?

A. Increase the CPU limit on the critical virtual machine.
B. Increase the CPU reservations on the critical virtual mach
C. Increase the CPU reservations on the resource pool
D. Increase the CPU limit on the resource pool

Answer: D
Explanation:
Since several critical virtual machines are hung, and if we understand the question didn't have limit configured (The resource pool has been allocated exactly 500MHz of CPU and does not have the option selected) we choose the option C.
The basic premise is that resource pool reservations are not limits. If the resource pool has been allocated EXACTLY 500 MHz this is a limit not a reservation.
Source: http://www.vmware.com/pdf/vsphere4/r40/vsp_40_resource_mgmt.pdf
Checkout page 39 and the bottom of the page is a table with definitions.

QUESTION NO: 89

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

A. The host must run all the same vSphere version.
B. The hosts must have the NX/XD feature enabled in BIOS
C. The hosts must all belong to the same CPU family
D. The host must all be part of the same DRS Group

Answer: B,C
Explanation:

QUESTION NO: 90

Which type of port on a Secondary private VLAN can only communicate with promiscuous ports?

A. Isolated

B. Promiscuous
C. Community
D. Trunked

Answer: A

Explanation:
Reference: http://blog.alwaysthenetwork.com/tutorials/private-vlan-tutorial/

QUESTION NO: 91

An administrator is enabling Enhanced vMotion Compatibility in a DRS cluster. The administrator wants the greatest degree of flexibility when adding new hosts in the cluster.

Which setting satisfies this requirement?

A. Any baseline compatible with the existing ESXi hosts in the cluster
B. The highest baseline that is compatible with the ESXi hosts in the cluster
C. The lowest baseline that is compatible with all ESXi hosts in the cluster
D. The highest baseline that is compatible with all ESXi hosts in the cluster

Answer: C

Explanation:
Change the EVC Mode for a Cluster
If all the hosts in a cluster are compatible with the new mode, you can change the EVC mode of an existing EVC cluster. You can raise the EVC mode to expose more CPU features, or lower the EVC mode to hide CPU features and increase compatibility.
To raise the EVC mode from a CPU baseline with fewer features to one with more features, you do not need to turn off any running virtual machines in the cluster. Virtual machines that are running do not have access to the new features available in the new EVC mode until they are powered off and powered back on. A full power cycling is required. Rebooting the guest operating system or suspending and resuming the virtual machine is not sufficient.
To lower the EVC mode from a CPU baseline with more features to one with fewer features, you must first power off any virtual machines in the cluster that are running at a higher EVC mode than the one you intend to enable, and power them back on after the new mode has been enabled.

QUESTION NO: 92

When using a hardware iSCSI initiator with an ESXi host, which two tasks are performed by VMKernel? (Choose two)

A. Encapsulation of iSCSI PDUs TCP/IP packets
B. Mapping requests for blocks on the virtual disk to blocks on the appropriate physical device
C. Issuing SCSI commands to the virtual disk
D. Encapsulation of I/O requests into iSCSI Protocol Data Units (PDUs)

Answer: B,C
Explanation:
Using HW iSCSI adapter it will offload from the VMkernel to the HW iSCSI adapter: Encapsulation of iSCSI PDUs TCP/IP packets And Encapsulation of I/O requests into iSCSI Protocol Data Units (PDUs) Hence the VMkernel does not perform these two tasks making these the correct answers: Mapping requests for blocks on the virtual disk to blocks on the appropriate physical device
And Issuing SCSS commands to the virtual disk

Page 68 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

5 If the iSCSI initiator is a hardware iSCSI adapter (both independent or dependent), the adapter performs the following tasks.
   a Encapsulates I/O requests into iSCSI Protocol Data Units (PDUs).
   b Encapsulates iSCSI PDUs into TCP/IP packets.
   c Sends IP packets over Ethernet to the iSCSI storage system.

QUESTION NO: 93

Why is converting a virtual machine to template significantly faster than creating a clone of a virtual machine?

A. The clone process is creating a snapshot of the virtual machine before cloning
B. The clone process has low priority on the system CPU to minimize performance
C. The template conversion only renames the vmx file.
D. The template conversion creates a linked-mode disk.

Answer: C
Explanation:

The VMX file will be renamed to a VMTX.

QUESTION NO: 94

Users are complaining that they cannot access their files on a file server virtual machine. The vSphere client shows that a triggered alarm stating disk latency is beyond the default Threshold for the datastore where the file server virtual machine is located. The path selection policy has been set by the ESXi host to Fixed with default path settings?

Which two options could be used to increase performance of the server virtual machine? (Choose two)

A. Use storage vMotion to move the file server virtual machine to datastore with lower latency
B. Use disk shares to increase the priority for the datastore housing the file server virtual machine
C. Change the path selection policy to Round Robin
D. Change the path selection policy to Most Recently Used (MRU)

Answer: A,C
Explanation:

QUESTION NO: 95

An administrator is configuring vCenter Server to support email notification.

Which two parameters must be configured in the vCenter Server Settings? (Choose two)

A. Sender email address
B. SNMP address information
C. SMTP server information
D. Receiver email address

Answer: A,C
Explanation:
Reference: http://www.vmwarehub.com/vCenter-Server-Settings.html

QUESTION NO: 96

What are three use cases for vSphere Fault Tolerance? (Choose three)

A. An administrator wants to provide continuous availability of a business-critical application fails.
B. An administrator wants to provide on-demand fault tolerance for a virtual machine during a critical operation.
C. An administrator wants to provide fault tolerance for one or more physical servers.
D. An administrator wants application high availability for application that are not cluster-aware.
E. An administrator wants to provide continuous availability if a critical hardware component fails..

Answer: B,D,E

Explanation:

Essentially FT does not offer Application FT - it only offers FT at the VM level. If the application fails there is nothing FT could do... This would be app monitoring. However the use cases desribed by VMware does use "Not Cluster-Aware" meaning a server with a single point of failure i.e. cannot be clustered so you can use FT to make it a redundant VM.
This question can be found in a VCP-410 Dump with the very same answers.
http://www.vmware.com/products/fault-tolerance/overview.html

QUESTION NO: 97

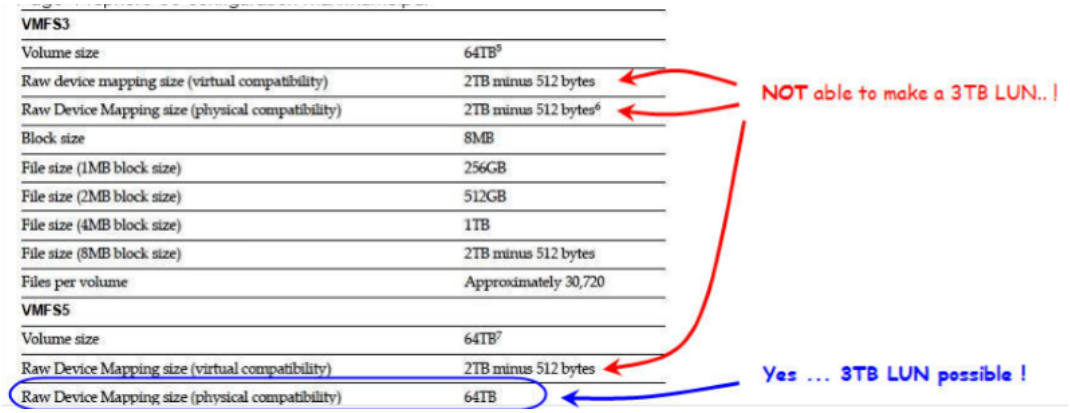
The database server administrator requests a virtual machine with a small system disk and a single data disk that must be 3TB in size. The storage administrator has already created a 3TB LUN. A 500GB VMFS3 datastore already exists.

Which process will the vSphere administrator use to provision the data disk?

A. No action is required on the VMFS3 Datastore. On that volume, creates a critical compatibility mode RDM mapping to the 3TB LUN.
B. No action is required on the VMFS3 Datastore. On that volume, create a physical compatibility mode RDM mapping to the 3TB LUN.
C. Upgrade the VMFS3 Datastore to VMFS5. On that volume, creates a physical compatibility mode RDM mapping to the 3TB LUN.
D. Upgrade the VMFS3 Datastore to VMFS5. On that volume create a virtual compatibility mode RDM mapping to the 3TB LUN

Answer: C

Explanation: Page 4 vsphere-50-configuration-maximums.pdf



QUESTION NO: 98

Using the vSphere storage Appliance (VSA) Manager to view the Datastore Status column, what are three valid states? (Choose three)

A. Disconnected
B. Connected
C. Degraded
D. Online
E. offline

Answer: C,D,E

Explanation:

Degraded – the replicate of the datastore is offline.

Online – the datastore and its replicate are online

Offline – the datastore and its replicate are offline

QUESTION NO: 99

Acme Disposal Services is a large company which has many administrators. For auditing purpose, each administrator must use a unique account to access ESXi hosts.

Which two actions satisfy this requirement and require the least amount of administrative effort? (Choose two)

A. Configure Authentication Services for Active Directory based authentication to ESXi
B. Configure a unique root level account for each administrator using vSphere Client.
C. Configure user accounts in a host profile, then apply the host profile to ESXi hosts
D. Configure Active Directory based authentication on the ESXi host using esxcli-auth

Answer: A,C
Reference: http://searchvmware.techtarget.com/tip/Whats-new-in-ESXi-41-Active-Directory-integration-Tech-Support-Mode-and-more

QUESTION NO: 100

What are two valid use cases for vCenter Server Linked Mode? (Choose two)

A. An administrator wants to migrate virtual machines between vCenter Server instances.
B. An administrator wants to define roles once and have them applied to all vCenter Server instances.
C. An administrator wants to manage ESX/ESXi hosts from multiple vCenter Server instances.
D. An administrator wants to search all inventory objects across multiple vCenter Server instances from on vSphere Client

Answer: B,D
Explanation:
Linke mode is all about searching and viewing inventory objects... not management.
The guide covers 3 things in detail

1. search objects and locate inventory objects across vcenters
2. Check multiple vcenter services
3. Propagate rules

Reference:

http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.vcenterhost.doc_50/GUID-1D374458-41B5-4C57-A8CC-82C0D78C128D.html

Page 49 from vsphere-esxi-vcenter-server-50-host-management-guide.pdf

Roles was debated so here is the excerpt THEY DO PROPAGATE!!!! pg.49 same book

The vCenter Server instance is now part of a Linked Mode group. After you form a Linked Mode group, you can log in to any single instance of vCenter Server and view and manage the inventories of all the vCenter Servers in the group. It might take several seconds for the global

data (such as user roles) that are changed on one machine to be visible on the other machines. The delay is usually 15 seconds or less. It might take a few minutes for a new vCenter Server instance to be recognized and published by the existing instances, because group members do not read the global data very often.

QUESTION NO: 101

An administrator is creating a vNetwork Standard Switch with virtual machine and VMkernel networking. The administrator has two uplinks attached to the switch but wants to separate the virtual machine and VMKernel traffic to the two uplinks.

Which load-balancing policy will guarantee this requirement is met, even if additional management or virtual machine traffic is added to the switch

A. Route based on IP hash
B. Router based on source MAC hash
C. Route based on the originating port ID
D. Use explicit failover

Answer: C
Explanation:

QUESTION NO: 102

It appears that a single vCPU virtual machine in a resource pool called Production is available in having performance problem because it does not have enough CPU Resources.

"Which two methods can be used to improve performance and reduce CPU contention of this virtual machine while maintaining compatibility with DRS? (Choose two)

A. Configure a CPU reservation for this virtual machine.
B. Dedicate a physical CPU to this virtual machine.
C. Increase the share priority setting for this virtual machine.
D. Increase the share priority setting for the Production resource pool

Answer: A,C

Explanation:

QUESTION NO: 103

An administrator plans to deploy ESXi 5.x on a blade server containing no local disks.

Which three options are supported for use in place of local disks? (Choose three)

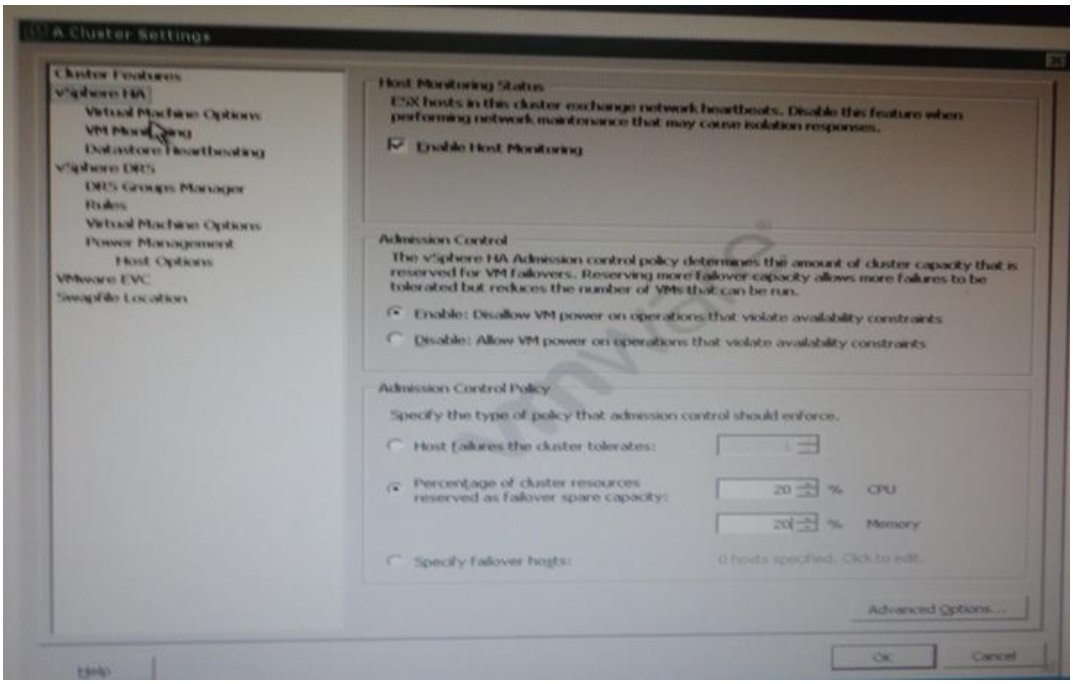
A. A dedicated Fibre Channel over Ethernet (FCoE) LUN
B. A PXE capable NIC
C. A shared Fibre Channel LUN
D. An NFS share
E. USB Drive

Answer: A,B,E
Explanation:
Page 27 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

Note:
the three valid options for ***installing*** ESXi in a scripted manner are PXE, boot from CD, and boot from USB. http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.storage.doc_50/GUID-9004389B-E2C0-4BE5-811C-E4886E3B7450.html states that booting through a Fibre Channel host bus adapter (HBA) or a Fibre Channel over Ethernet (FCoE) converged network adapter (CNA) is supported, but this is not an installation option, but a way of running ESXi in a diskless manner after the installation.

QUESTION NO: 104

Exhibit:



An administrator has a DRS/HA clusters with five ESXi 5.x hosts. When the administrator tries to start a new Web server virtual machine, information is displayed saying insufficient resources exist for HA.

Based on the HA configuration in the exhibit, which two changes can resolve the issue? (Choose two)

A. Specify one of the ESXi hosts to be a failover host
B. Allow virtual machines to be powered on even if they violate HA availability constraints
C. Modify the percentage of reserved resources to 30 percent
D. Add a ESXi host to the cluster

Answer: B,D

Explanation:

QUESTION NO: 105

An administrator is cloning a vSphere 5 virtual machine. The resulting clone will be placed in a datastore cluster. The virtual machine requires high availability on high storage performance.

Which option can be selected during the cloning process to meet these requirements?

A. Change the format of the virtual disks to Flat
B. Apply a VM Storage Profile

C. Select Disable Storage DRS for this virtual machine
D. Do not select a datastore cluster, manually select an appropriate datastore

Answer: B

Explanation:

Page 134 from vsphere-esxi-vcenter-server-50-host-management-guide.pdf

QUESTION NO: 106

Which two statements are true about port groups and VLANs defined on a vNetwork standard Switch? (Choose two)

A. A VLAN can be configured for the entire virtual switch or on individual port groups or both
B. Multiple port groups can specify the same VLAN
C. VLANs can be configured only on individual port groups
D. Multiple VLANs can be specified in a port group

Answer: B,C

Explanation:

QUESTION NO: 107

Assuming that VLANs are not configured, what is true about traffic from a virtual machine connected to a port group on a vNetwork Standard Switch with NO uplinks?

A. The virtual switch will drop the packets of no uplink is present.
B. Virtual machines on nay vNetwork Standard Switch on the same ESXi host can receive the traffic.
C. Virtual machines in any port group on the virtual switch can receive the traffic.
D. Only virtual machines in the same port group on the virtual switch can receive the traffic.

Answer: C

Explanation:

Page 13 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 108

Witch two statements are true about High Priority vMotion requests in vSphere 5.x?

(Choose two)

A. Migrations always proceed regardless of whether or not resources have been successfully reserved
B. Migrations do not proceed if resources are not successfully reserved.
C. vCenter Server attempts to reserve resources on both the source and destination hosts to be shared among all concurrent migrations with vMotions.
D. vCenter Server attempts to reserve resources on both the source and destinations hosts for each individual High Priority migration with vMotion.

Answer: A,C

Explanation:

References:

Page 135 from vsphere-esxi-vcenter-server-50-host-management-guide.pdf

http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.vm_admin.doc_50/GUID-0542FCAA-209A-4296-8AA4-0A51C13A6233.html

QUESTION NO: 109

Which two events will result in a vSphere 5.x host running a virtual machine that contains an older virtual hardware version? (Choose two)

A. a virtual machine is created on a vSphere 5.x host and virtual for the VM are created on a VMFS3 datastore.
B. a virtual machine was migrated from a vSphere 4.x host.
C. a virtual machine is created on a vSphere 5.x host with a with a vmxnet network adapter.
D. a virtual machine is created on a vSphere 5.x host and attached to an existing virtual disk created with vSphere 4.x

Answer: B,D

Explanation:

Page 142 from vsphere-esxi-vcenter-server-50-upgrade-guide.pdf

QUESTION NO: 110

Which of these factors indicates a high likelihood that the performance of a virtual machine is being constrained by disk I/O?

A. A large number of commands issued
B. A large number of bus resets
C. A high device latency value
D. A large number of kilobytes read and written.

Answer: C
Explanation:

QUESTION NO: 111

An administrator is deploying several ESXi 5.x hosts. Centralized logging with accurate timestamp is a requirement for the deployment.

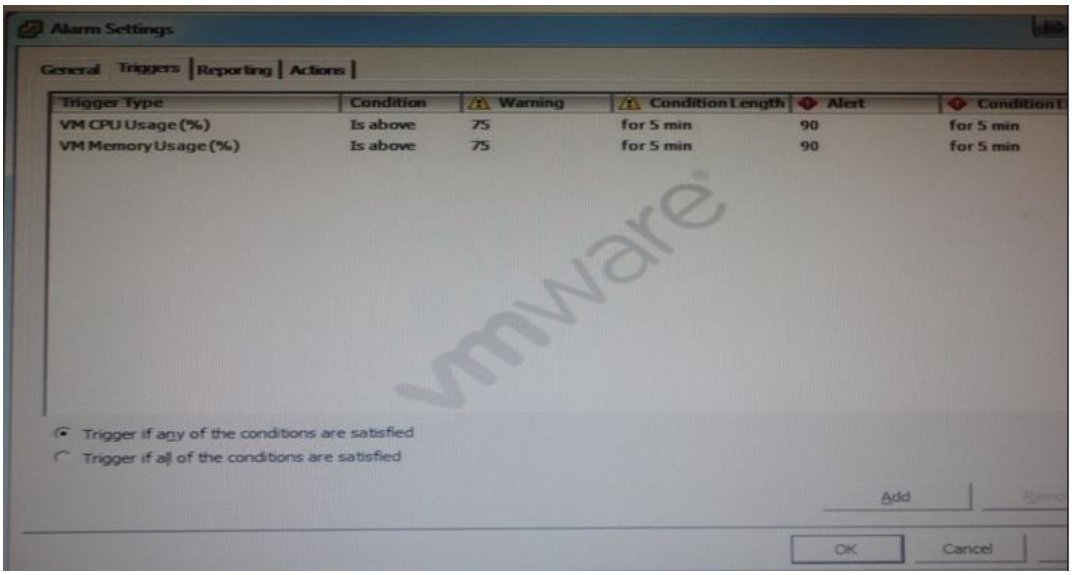
Which two operations ensure these requirements are met? (Choose two.)

A. Configure the host to use an NTP server
B. Configure the hosts to direct logs to a syslog server
C. Configure the host to record fame stamps m the local time zone
D. Configure vilogger on the vSphere Management Appliance

Answer: A,B
Explanation:

QUESTION NO: 112

Exhibit:



ACME Party Supplies Corporation has a requirement to monitor all virtual machines in a vSphere 5 environment for CPU and Memory usage. An administrator configures an alarm in vCenter Server to send an alert when any VM exceeds 65% memory utilization and 75% CPU utilization. The alarm should warn administrators if the virtual machine is within 10% of the defined thresholds. The alarm has been created with the default options shown in exhibit.

Which three modifications must be made to the default settings on the alarm definition to satisfy stated requirements? (Choose three)

A. Set the VM CPU Usage (%) Alert trigger to 75% and the VM Memory usage (%) Warning trigger to 65%
B. Set the VM CPU Usage (%) Alert trigger to 75% and the VM Memory Usage (%) Alert trigger to 65%
C. Set the VM CPU Usage (%) Warning trigger to 65% and the VM Memory usage (%) Warning trigger to 55%
D. Set the Trigger if all of the conditions are satisfied radio button.
E. Set the Trigger id any of the conditions are satisfied radio button.

Answer: B,C,E

Explanation:

Basing on the question, we believe that the answer "set the trigger ifall of the condition are satisfied" is wrong, and should be "set the trigger if ANY of the condition are satisfied".The question says that the administrator has to be informed also onwarning, but if ALL conditions are satisfied, he will be advised onlywhen both warning and alert triggers starts.

QUESTION NO: 113

An administrator has just finished deploying a vApp for web service.

What three options are available to the administrator for IP allocation within the vApp? (Choose three)

A. Transient
B. Fixed
C. DHCP
D. Bridged
E. NAT

Answer: A,B,C

Explanation:

Page 188 from vsphere-esxi-vcenter-server-50-virtual-machine-admin-guide.pdf

QUESTION NO: 114

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

A. Virtual machine multipathing software should be used to perform I/O load balancing to individual LUNs.
B. RDMs should not be used to access raw disks from ESX 2 5 or 3 x hosts.
C. Each LUN should contain only one VMFS datastore.
D. Each LUN must present the same LUN ID number to all ESXi hosts

Answer: C,D

Explanation:

Page 37 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 115

An administrator is working to upgrade the host and virtual machines in vSphere 5 deployment Upgrade Baselines.

Other than host patches, which three items can be added to a vSphere 5 Baseline? (Choose three)

A. Operating system patches
B. Virtual appliance updates
C. Virtual machine Virtual Hardware upgrade
D. VMware tools
E. Applications patches within the virtual machine

Answer: B,C,D

Explanation:

Update Manager can scan and remediate ESX/ESXi hosts, virtual machines, and virtual appliances.

*Host patching
*ESX/ESXi 3.5
*ESX/ESXi 4.x
*ESXi 5.0
*Host upgrades of ESX/ESXi 4.x to ESXi 5.0
*Upgrades of VMware Tools and virtual machine hardware for virtual machines
*Upgrades of virtual appliances

Reference: http://www.vmware.com/support/vsphere5/doc/vsphere-update-manager-50-release-notes.html

QUESTION NO: 116

Which statement describes the functionality of traffic shaping on a vNetwork Distributed Switch?

A. vNetwork Distributed Switches support only egress traffic shaping
B. vNetwork Distributed Switches support both ingress and egress traffic shaping
C. vNetwork Distributed Switches support best-effort traffic shaping based on quality of service (QoS)
D. vNetwork Distributed Switches support only ingress traffic shaping

Answer: B

Explanation:

Page 56 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 117

An administrator has determined that storage performance to group of virtual machines is reduced during peak activity. The virtual machines are located in VMFS datastore called Production 1 on an active-active storage array. The ESXi host running the virtual machine is configured with an MRU multipathing policy.

Which two actions can be taken to improve the storage performance of these virtual machines? (Choose two)

A. Add physical storage, create a VMFS datastore called Production 2 on the New storage, and then migrate some of the virtual machines from Production1.
B. Change the storage multipathing policy to Round Robin.
C. Add physical storage and add an extent to the physical storage called Production 1.
D. Change the storage multipathing policy to fix.

Answer: A,B
Explanation:

QUESTION NO: 118

What are three methods of adding VMkernel networking to a vNetwork Distributed Switch? (Choose three)

A. A VMkernel Network adapter can be created and added to a standalone port.
B. A VMkernel network adapter can be created along with a VMkernel port group on the selected vNetwork Distributed Switch.
C. A VMkernel port can be cloned from a vNetwork Standard Switch
D. A VMkernel network adapter can be associated with a port group on a vNetwork Distributed Switch.
E. A VMkernel port can be migrated from a vNetwork Standard Switch.

Answer: A,D,E
Explanation:

QUESTION NO: 119

An administrator is deploying a number of virtual machines to an NFS datastore. The NFS datastore does not support hardware Acceleration.

Which virtual disk type is supported on this platform?

A. Flat disk
B. Raw Device Mapped disk
C. Thin Provisioned disk
D. Thick Provisioned disk

Answer: C
Explanation:
On NFS datastores that do not support Hardware Acceleration, only thin format is available.

Note:
NFS Disk Formats
The only disk formats you can use for NFS are thin, thick, zeroedthick and 2gbsparse.
Thick, zeroedthick and thin formats usually behave the same because the NFS server and not the ESXi host determines the allocation policy. The default allocation policy on most NFS servers is thin. However, on NFS servers that support Storage APIs - Array Integration, you can create virtual disks in zeroedthick format. The reserve space operation enables NFS servers to allocate and guarantee space.
Reference: http://vinfrastructure.it/en/2011/08/vcp5-exam-prep-part-3-1/

QUESTION NO: 120

Which two actions can be scheduled through the Scheduled Task in the vSphere Client? (Choose two)

A. Add a host
B. Change the power state of a host
C. Enter maintenance mode
D. Take a snapshot of a virtual machine

Answer: A,D
Explanation:

QUESTION NO: 121

The remote console performance for a virtual machine on an ESXi host appears to be degraded.

What are two possible causes of the problem? (Choose two)

A. The virtual NIC assigned to the virtual machine has a speed or duplex mismatch.
B. The physical NIC assigned to the virtual machine port group containing the affected virtual machine has a speed or duplex mismatch.
C. The physical NIC assigned to the Service Console port group has a speed or duplex mismatch.
D. The physical NIC assigned to the VMkernel port group has a speed or duplex mismatch.

Answer: B,D

Explanation:

QUESTION NO: 122

An administrator selects the profile compliance tab of an HA/DRS cluster, than selects Check Compliance New?

What happens if a host profile is not attached to the cluster?

A. The compliance check generates an error
B. The compliance check prompts for a valid host profile
C. The compliance check uses the default data center host profile
D. The duster is checked for specific HA, DRS, and VMware DPM cluster requirements.

Answer: D

Explanation:

QUESTION NO: 123

An administrator is configuring Storage DRS in their Environment. Storage DRS has been enabled, but is showing as disabled on several virtual machine disks in the datastore cluster.

Which three conditions would cause this error to occur? (Choose three)

A. The virtual machine is a vApp

B. A datastore in the cluster is completely full
C. One or more virtual machines has been enabled for Fault Tolerance
D. One or more virtual machines have swap files located on a local host datastore
E. One or more virtual machines are configured with an independent disk

Answer: C,D,E
Explanation:

QUESTION NO: 124

Which VLAN value permits virtual machine guest tagging in vSphere 5 environment?

A. 4095
B. 1
C. 4096
D. 0

Answer: A
Explanation: Explanation/Reference:
http://vmnomad.blogspot.com/2011/07/vlan-tagging-and-use-cases-of-vlan-id.html
Page 12 and 13 from vsphere-esxi-vcenter-server-50-networking-guide.pdf

QUESTION NO: 125

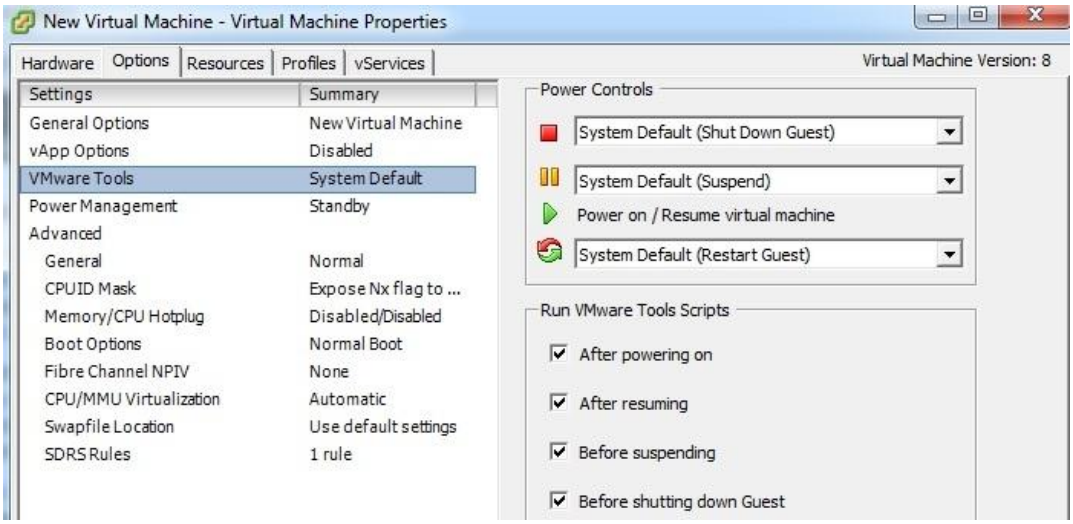
The power and restart buttons for a virtual machine can be configured from the Options tab of the virtual machine.

What are the two default actions that are configured for these buttons? (Choose two)

A. The Restart button docs a graceful reboot.
B. Power button does a graceful shutdown
C. Power button does a hard shutdown
D. The Restart button resets power

Answer: A,B
Explanation:
When you finish to deploy a virtual machine even if you select the OS to be Other default options

are:



QUESTION NO: 126

An administrator notices that log files kept on an ESXi host are being rotated very quickly, initiating the troubleshooting of an issue?

Which two configuration changes will resolve this issue? Select two.

A. Configure syslog to send the logs to a separate file
B. Increase the number of logs kept
C. Increase the logging level
D. Increase the log file size

Answer: B,D

Explanation:

QUESTION NO: 127

What is a characteristic of a mapped SAN LUN (RDM) set to physical compatibility mode?

A. It allows the LUN to be made into a template
B. It allows the VMkernel to natively access NTTS data on the LUN
C. It allows the virtual machine to use VMware snapshots
D. It allows the guest operating system to access the hardware directly

Answer: D
Explanation:
Page 140 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 128

Which three statements regarding Network I/O Control (NetIOC) are accurate? (Choose three)

A. Isolation prevents network traffic from bridging physical network ports
B. Limits enforces maximum throughput control on a virtual machine
C. Load based teaming efficiently uses a vDS set of dvUplinks for network capacity
D. Isolation prevents domination by any one traffic flow
E. Relative shares fairly allocates available bandwidth among multiple flows

Answer: C,D,E
Explanation:
NetIOC Feature SetNetIOC provides users with the following features:• Isolation: ensure traffic isolation so that a given flow will never be allowed to dominate over others, thus preventing drops and undesired jitter• Shares: allow flexible networking capacity partitioning to help users to deal with overcommitment when flows compete aggressively for the same resources• Limits: enforce traffic bandwidth limit on the overall vDS set of dvUplinks• Load-Based Teaming: efficiently use a vDS set of dvUplinks for networking capacity

Reference: http://www.vmware.com/files/pdf/techpaper/VMW_Netioc_BestPractices.pdf

QUESTION NO: 129

A 2TB VMFS3 datastore has been upgraded to VMFS5. The original block size was 2MB.

What effect will this upgrade have on the maximum file size supported by the datastore?

A. The maximum virtual disk size remains 512GB
B. The maximum virtual disk size increases to 1TB
C. The maximum virtual disk size increases to 32TB providing the datastore is also increased
D. The maximum virtual disk size increases to 2TB minus 512B

Answer: D

Explanation:

If you have a .vmdk file in VMFS-3 format, with one of this size (depending on block size), then you have:

1MB file block size - max file size is 256GB2MB file block size - max file size is 512GB4MB file block size - max file size is 1TB8MB file block size - max file size is 2TB

People think that because we maintain this original file block size in the upgraded VMFS-5, this still has relevance to the maximum size of the VMDK. But this is not true.

If you update VMFS-3 to VMFS-5, independently the block size that this VMDK file have in VMFS-3, now in VMFS-5 format this file can grown up to 2 TB minus 512 bytes, no more than this size.

Reference: http://blogs.vmware.com/vsphere/2011/08/2tb-vmdks-on-upgraded-vmfs-3-to-vmfs-5-really.html

QUESTION NO: 130

An administrator is informed that there will be a storage maintenance window and that failovers may occur.

What is the expected length of time that virtual machine storage I/O will pause during a path failover?

A. 0 to 30 seconds
B. 90 to 120 seconds
C. 60 to 90 seconds
D. 30 to 60 seconds

Answer: D

Explanation:

Path failover refers to situations when the active path to a LUN is changed from one path to another, usually because of some SAN component failure along the current path. A server usually has one or two HBAs and each HBA is connected to one or two storage processors on a given SAN array. You can determine the active path, the path currently used by the server, by looking at the LUN's properties.

When an FC cable is pulled, I/O might pause for 30-60 seconds until the FC driver determines that

the link is unavailable and failover has occurred. As a result, the virtual machines, with their virtual disks installed on SAN storage, can appear unresponsive. If you attempt to display the host, its storage devices, or its adapter, the operation might appear to stall. After failover is complete, I/O resumes normally.
In case of disastrous events that include multiple breakages, all connections to SAN storage devices might be lost. If none of the connections to the storage device is working, some virtual machines might encounter I/O errors on their virtual SCSI disks.
Reference:

http://pubs.vmware.com/vsp40_i/wwhelp/wwhimpl/js/html/wwhelp.htm#context=fc_san_config&file=c_failover.html

QUESTION NO: 131

An administrator is working to implement Storage Profiles in their environment.

Which two ways can storage capabilities be generated? (Choose two)

A. Generated by a Storage Cluster while monitoring its LUNs
B. Storage capabilities are pre-determined by the Storage Profile on creation
C. Pulled from the array through the VMware APIs for Storage Awareness (VASA)
D. Manually generated by the administrator

Answer: C,D
Explanation:
Page 196 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 132

An administrator is configuring a stretched DRS/HA clusters. The administrator wishes to restrict the failover of VMs to certain hosts within a given site.

Winch vSphere feature satisfies this requirement?

A. DRS Storage Groups
B. DRS Host Groups
C. Host Priority
D. Host Affinity

Answer: B
Explanation:
Page 73 from vsphere-esxi-vcenter-server-50-resource-management-guide.pdf
DRS Host Group is a prerequisite of VM-Host Affinity rule. In DRS group you will create a list of available hosts from specific virtual machines.

Note:
*Stretched clusters are sometimes referred to as a “split cluster”
*A stretched cluster is a cluster with ESX/ESXi hosts in
different physical locations, usually different geographic sites
* Stretched clusters are typically built as a way to create
“active/active” data centers in order to:
/ Provide high availability across sites
/ Do dynamic workload balancing across sites

QUESTION NO: 133

What information determines which datastore will be used for vSphere HA heartbeats?

A. The number of datastores connected to an ESXI host
B. The number of ESXi hosts connected to a datastore
C. The storage protocol used
D. The type of datastore

Answer: B
Explanation:

QUESTION NO: 134

The typical option is selected while running the New Virtual Machine Wizard in the vSphere Client;

Which specific configuration options are skipped during virtual machine creation? (Choose three)

A. Datastore location
B. Virtual machine version
C. Resource pool
D. Number of vCPUs
E. Virtual machine configuration.

Answer: B,D,E
Explanation:
During the installation you can select a resource pool or a datastore on which to run the virtual machine.

Page 74 from vsphere-esxi-vcenter-server-50-examples-scenarios-guide.pdf
The typical option began in page 74 and explain all items that you can or can't to configure.

QUESTION NO: 135

What are two consequences of deleting an NFS datastore from an ESXi host? (Choose two)

A. The datastore is removed from all connected ESX/ESXi hosts
B. The datastore and all virtual machines are removed from the storage device
C. The datastore and all virtual machines remain on the storage device
D. The datastore is only removed from that specific ESX/ESXi host.

Answer: C,D
Explanation:
The below explanation is for deleting VMFS, as far as we know you can't delete NFS datastores from an ESXi host. You can unmount it which only removes it from that single host and the VM's would still remain on the datastore. Therefore The correct answers should be: The datastore and all virtual machines remain on the storage device and The datastore only removed from that specific ESX/ESXi host.

QUESTION NO: 136

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

A. You can use Storage vMotion to move virtual machines between NFS datastores
B. You can use MSCS to cluster virtual machine across ESXi hosts using NFS datastore
C. You can use VMware Storage APIs with an NFS datastore
D. You can create raw device mapping (RDM) virtual disks on NFS datastore

Answer: A,C
Explanation:
Storage DRS works with both VMFS- and NFS-based datastores. But mixing VMFS and NFS datastores in a single datastore cluster is currently not support.
vSphere 5.0 extends Storage I/O Control to provide clusterwide I/O shares and limits for NFS datastores.

Page 24 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 137

Which three requirements must be met, in order to use Storage I/O Control? (Choose three.)

A. The datastore must contain a single VMFS extent
B. The datastore must contain a single NFS volume
C. The datastore must not include virtual machines with snapshots
D. The datastore must be managed by a single vCenter Server
E. Array-based automated storage tiering must be explicitly certified

Answer: A,D,E
Explanation:
See the 43rd page of the referenced document:

Storage I/O Control Requirements
Storage I/O Control has several requirements and limitations.
*Datastores that are Storage I/O Control-enabled must be managed by a single vCenter Server system (D).
*Storage I/O Control is supported on Fibre Channel-connected, iSCSI-connected, and **NFS-connectedstorage**. Raw Device Mapping (RDM) is not supported.
*Storage I/O Control does not support datastores with multiple extents (A).
* Before using Storage I/O control on datastores that are backed by arrays with automated tiering capabilites, chech the Vmware Compatiblity Guide to verify that your automated tiered storage array has been certified to be compatible with Storagte I/O control. (E)

Page 43 from vsphere-esxi-vcenter-server-50-resource-management-guide.pdf

QUESTION NO: 138

An administrator is upgrading an ESXi 3.5 host to ESXi 5.x. The host has a single Intel Xeon processor, 4GB of RAM, and a VMFS datastores on private, SAN-attached LUN.

What might cause the upgrade to be unsuccessful?

A. The ESXi host has 4GB RAM
B. The ESXi host has one processor
C. ESXi 3.5 is not supported for direct upgrade
D. The VMFS datastore resides on a private, SAN-attached LUN

Answer: C

Explanation:

Page 27 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

QUESTION NO: 139

What is beacon probing used for in vSphere networking?

A. To identify when an upstream link failure has occurred
B. To probe for network intrusions
C. To discover which uplink has the shortest route
D. To identify which uplink has the longest reported uptime

Answer: A

Explanation:

Reference: http://kb.vmware.com/kb/1005577

QUESTION NO: 140

An administrator is performing an upgrade on an ESXi host.

Which step can be used to back up the host before the upgrade is performed?

A. Use the ESXi direct console and select the Host Backup option.
B. Use vCLI and run vicfg-cfgbackp –s backupfile to save the ESXi host configuration.
C. Login to the ESXi host directly and run esxcfg-backup file to save the ESXi host configuration.
D. Using the vSphere Client, attach to the ESXi host and select the Backup option from the Configuration tab

Answer: B
Explanation:

QUESTION NO: 141

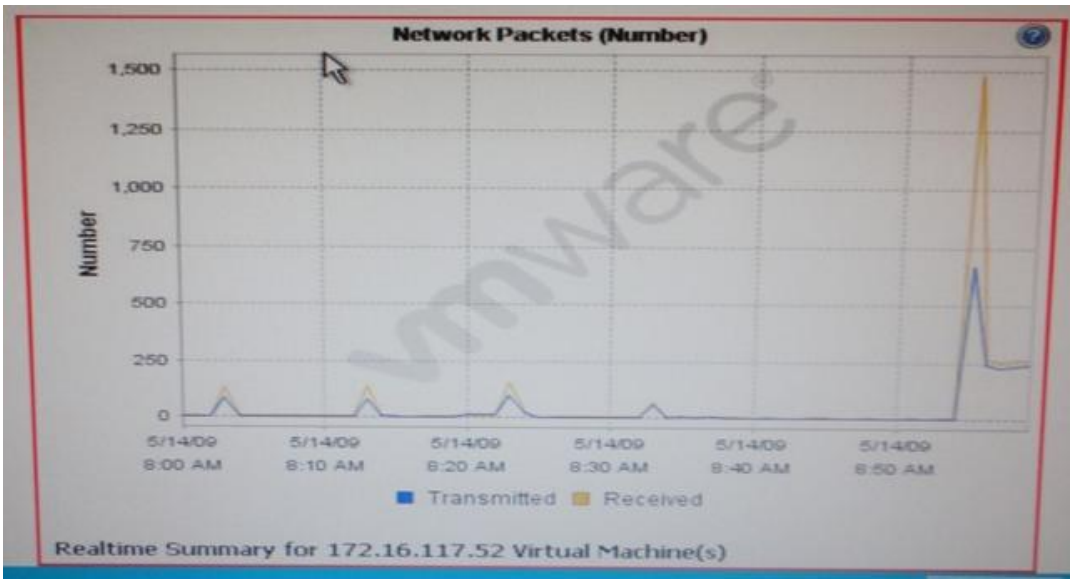
What arc two functions of zoning in fibre Channel switches? (Choose two)

A. Controls and isolates LUNs on a Fibre Channel storage array
B. Restrict connections on a storage array to ESXi hosts that use the array
C. Prevents non-ESXi hosts from possibly destroying VMFS data
D. Reduces the number of targets and LUNs presented by a Fibre Channel storage array

Answer: C,D
Explanation:
Page 34 from vsphere-esxi-vcenter-server-50-storage-guide.pdf

QUESTION NO: 142

Exhibit:



An administrator has received reports of poor network performance with a virtual machine.

Which task will improve the network performance of this virtual machine?

A. Adjust shares for the virtual NIC on the virtual machine
B. Traffic-shape this virtual machine
C. Increase memory to the virtual machine
D. Add an uplink to the virtual switch that this virtual machine is attached to

Answer: D
Explanation:

QUESTION NO: 143

When an explicit failover order has not been configured on a virtual switch with multiple uplinks, what determines which uplink is used when a failover event occurs?

A. The first available uplink that reports a positive link state
B. The reported uptime for the surviving uplinks
C. The next available uplink on the Host
D. The uplink with the shortest route

Answer: B
Explanation:

QUESTION NO: 144

An administrator is upgrading an application running in a virtual machine. Before performing the upgrade a snapshot called pre-upgrade is created. NO other snapshots exist. The upgrade operation succeeds and the administrator wants to keep the changes from the snapshot.

Which two operations can the administrator perform to ensure that the upgrade cannot be reverted? (Choose two)

A. Use the Delete All option within the Snapshot Manager
B. Use the Delete option within the Snapshot Manager
C. Use the Consolidate option with the Snapshot Manager
D. Use the Go To option in the snapshot

Answer: A,B
Explanation:

QUESTION NO: 145

An administrator wants to restrict the ability of selected administrators to install plug-ins in their vSphere Client application.

What action should the administrator perform?

A. Modify permissions for the administrators and add the Validate Session privilege
B. Modify permissions for the administrators and add the Disable Methods privilege
C. Modify permissions for the administrators and remove the Register Extension privilege
D. Modify permissions for the administrators and remove the CIM Interaction privilege

Answer: C
Explanation:

QUESTION NO: 146

Under which two conditions is a master elected by vSphere HA? (Choose two.)

A. When a network partition occurs
B. When a failure of vCenter Server occurs
C. When vSphere HA is enabled
D. When a host is added to an HA enabled cluster

Answer: A,C

Explanation:

Reference: http://www.thinkmeta.net/index.php/2011/09/01/bco2874-vsphere-high-availability-5-0-and-smp-fault-tolerance/

QUESTION NO: 147

What are the three different workload categories that can be serviced by a Private Cloud? (Choose three)

A. Infrastructure
B. Transient
C. Stable
D. Elastic
E. Constant

Answer: A,B,D

Explanation:

Page 4 from VMware-Service-Definition-Private-Cloud.pdf

QUESTION NO: 148

When writes from a virtual machine are delivered to a Fibre Channel storage array, which two actions are taken by the VMkernel? (Choose two)

A. The modified I/O request is sent from the physical HBA to the device driver.
B. The file corresponding to the virtual machine is located is located on the VMFS datastores.
C. The request for blocks on the virtual disk is mapped to blocks on the appropriate physical device.
D. The I/O request is converted from binary data form to optical data from.

Answer: B,C

Explanation:

http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.storage.doc_50/GUID-3A05795A-283F-4959-AD81-FAC61FD8D456.html

QUESTION NO: 149

When memory is overcommitted, which two values determine the amount of physical memory above the virtual machine reservation that is guaranteed to a given virtual machine? (Choose two)

A. Idle Memory Tax
B. Shares
C. Working Set Size
D. Slot Size

Answer: B,C

Explanation:

Page 32 from vsphere-esxi-vcenter-server-50-resource-management-guide.pdf

QUESTION NO: 150

Administrators are unable to connect to an ESXi 5.x host using the vSphere client. Restarting the management agent will likely fix the issue, but must be done without disrupting network connectivity to any virtual machines.

Which two actions will meet these goals? (Choose two)

A. Enter the service mgmt – vmware restart command from either SSH or local CLI
B. Select Restart Management Agents m the Direct Console User Interface (DCUI)
C. Select Restart Management Network in the Direct Console User interface (DCUI)
D. Enter the services. sh restart command from either SSH or the local CLI

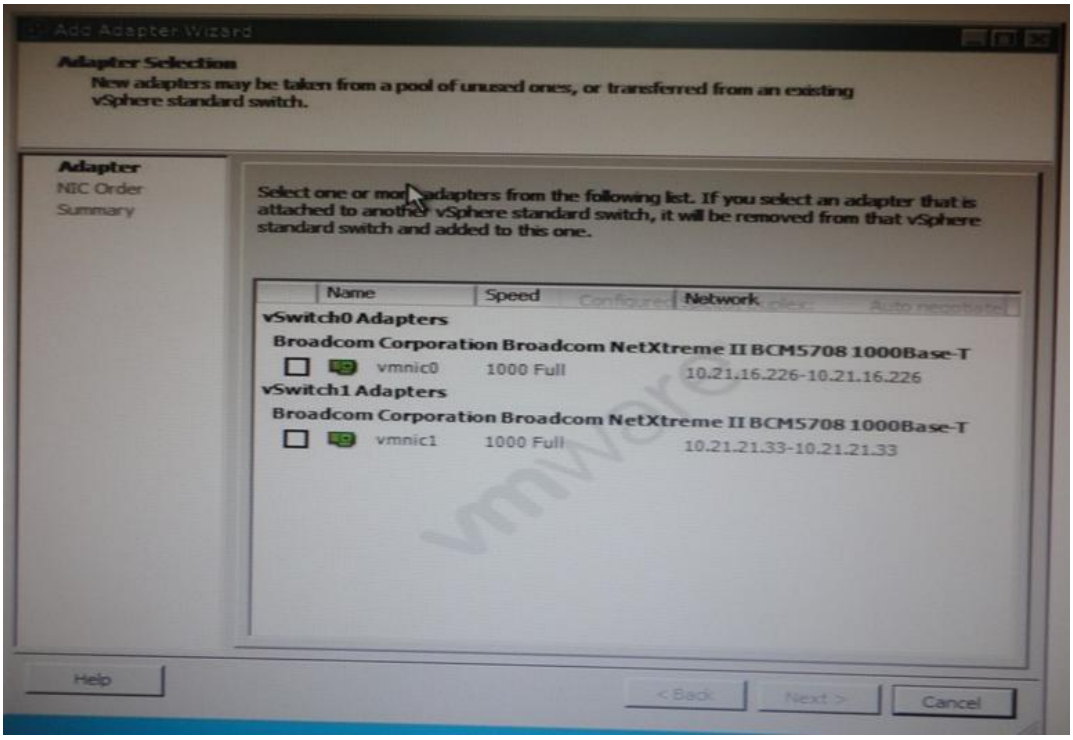
Answer: B,D

Explanation:

Page 146 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

QUESTION NO: 151

Exhibit:



An administrator has been tasked with adding an uplink to a vSwitch.

Based on the exhibit, what is a true statement about this environment?

A. The server does not have available uplinks to be assigned to this vSwitch
B. The available uplinks are not compatible with a standard vSwitch
C. The vSwitch is out of capacity for uplinks
D. The current uplinks cannot be attached because they are in use by other port groups

Answer: A

Explanation:

QUESTION NO: 152

An administrator attempts to increase the number of vCPUs in a virtual machine to 32. The configuration cannot be successfully completed.

What are two likely causes of this issue? (Choose two)

A. The vSphere 5 implementation has a license which does not include virtual SMP.
B. The total number of cores in the host is 32 and a CPU must be reserved for ESXi.
C. The virtual machine was built using version 7 virtual machine hardware.
D. The vSphere 5 implementation is using an Enterprise license.

Answer: C,D

Explanation:

Page 6 from vsphere_pricing.pdf

QUESTION NO: 153

The VMware vCenter Server Appliance has been deployed using default settings.

What user name and password are used to log in the administrator interface to configure the appliance?

A. The initial user name and password must be supplied on the first login attempt
B. The initial user name and password must be supplied during deployment
C. The initial user name is root and the password is blank
D. The initial user name is root and the password is vmware

Answer: D

Explanation:

Page 203 from vsphere-esxi-vcenter-server-50-installation-setup-guide.pdf

QUESTION NO: 154

What two things are guaranteed when establishing a virtual machine memory reservation? (Choose two)

A. Physical memory for the VMkernel to start the virtual machine
B. Minimum virtual memory guaranteed to the virtual machine while the virtual machine is running
C. Minimum physical memory guaranteed to the virtual machine while the virtual machine is running
D. Virtual memory for the VMkernel to start the virtual machine

Answer: A,C
Explanation:

QUESTION NO: 155

Which of the following are accurate descriptions of the Predictive and Adaptive Schemes for placing VMFS datastores (Choose Two)?

A. The Adaptive Scheme utilizes a small number of large LUNs
B. The Predictive Scheme utilizes several LUNs with different storage characteristics
C. The Adaptive Scheme utilizes several LUNs with different storage characteristics
D. The Predictive Scheme utilizes a small number of large LUNs

Answer: A,B
Explanation:



Reference:

http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.storage.doc_50/GUID-2C8FAE1F-98F7-4E0BAEA0-83A4FF16A252.html

QUESTION NO: 156

In vSphere, a bound physical NIC can be configured to transmit and receive Jumbo Frames. What is the Maximum Transmission Unit (MTU) for Jumbo Frames in vSphere?

A. 5000
B. 5500

C. 9500
D. 9000

Answer: D
Explanation:

QUESTION NO: 157

An administrator wants to apply Disk Shares to ensure proper storage performance.These shares are

configured on which object?

A. Storage Adapter
B. Virtual Machine
C. Datastore
D. Resource Pool

Answer: B
Explanation:

QUESTION NO: 158

Which of the following options cannot be edited if vApp Options is disabled in the

Options tab for a Virtual Machine that is part of a vApp (Choose Two)?

A. vApp Resources
B. IP Allocation Policy
C. vApp Startup and Shutdown Options
D. OVF Environment Transport

Answer: B,D
Explanation:

QUESTION NO: 159

Chap Security Level for Independent hardware ISCSI? (Choose Two)

A. Do not use Chap

B. Do not use CHAP unless required by target
C. Use Chap unless prohibited by target
D. Use chap

Answer: A,C

Explanation:
Reference:

http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.storage.doc_50/GUID-3F97FB05-3C92-4040-84E7-D928555B3808.html

QUESTION NO: 160

A design requirement calls for setting up an ESXi HA/DRS cluster between 2 datacenters. The host for the cluster are approximately 50km apart. What ports would need to be opened between the firewalls to allow communication between the Hosts? (Choose Two)

A. 80
B. 2050 to 2250
C. 8080
D. 8000

Answer: B,D

Explanation:
ESXi 5.x 2050 to 2250 TCP/UDP Traffic between hosts for vSphere High Availability (vSphere HA) and EMC
Autostart Manager
ESXi 5.x 8000 TCP From VM host source to VM host destination (VMotion Port)

QUESTION NO: 161

What port is used for iSCSI?

A. 3260
B. 903
C. 23
D. 1160

Answer: A

Explanation:

Heading: Functionality

Also Port 860 can be used though it may not be the port used in vSphere/ESXi 5.

Reference: http://en.wikipedia.org/wiki/ISCSI

QUESTION NO: 162

What does OVF/OVA format allows to be done to a VMware template or Virtual Machine?

A. Upgrade
B. Transport
C. Convert
D. Automate VM deployment

Answer: B

Explanation:

The true definition for an OVF/OVA file is that it is an "Open" format that is able to be "Transported". This means the VM can be literally transported between different cloud systems such as Amazon, Google, and MS.

Any cloud provider that supports this format can have the VM imported into their cloud system.

QUESTION NO: 163

What IOPS should be used with Storage I/O control (SIOC) to limitdisk throughput to roughly 15MPS if the guest application writes 64KB?

A. 320
B. 240
C. 64
D. 150

Answer: B

Explanation:

64 KB * 240 = 15630 KB / 1024 = 15 MB

http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.resmgmt.doc_50/GUID-

D964A753-0844-4343-A96F-27A4C769F92D.html
"The benefits and drawbacks of setting resource limits are described in Resource Allocation Limit. If the limit you want to set for a virtual machine is in terms of MB per second instead of IOPS, you can convert MB per second into IOPS based on the typical I/O size for that virtual machine. For example, to restrict a backup application with 64KB IOs to 10MB per second, set a limit of 160 IOPS."

QUESTION NO: 164

A user wants to configure a DRS migration threshold that allow automated applied of all priority one & two remediation only. What is the setting?

A. Priority 2
B. Priority 1
C. The moderately conservative setting
D. Defualt setting

Answer: A
Explanation:
"You can move the threshold slider to use one of five settings, ranging from Conservative to Aggressive. The five migration settings generate recommendations based on their assigned priority level. Each setting you move the slider to the right allows the inclusion of one more lower level of priority. The Conservative setting generates only priority-one recommendations (mandatory recommendations), the next level to the right generates priority-two recommendations and higher, and so on, down to the Aggressive level which generates
priority-five recommendations and higher (that is, all recommendations.)"

QUESTION NO: 165

When coordinating the VM NMP and any installed 3-party MPP, what operations does the PSA perform?

A. Implements logical devices bandwidth sharing
B. Process I/O request to logical devices
C. Associate physical path with logical devices
D. Manage physical path claiming and unclaiming

Answer: A

Explanation:

it is „Implements logical devices bandwidth sharing“, as the other alternatives are performed by NMP. For reference please refer to page 23-24 of this document http://www.vmware.com/pdf/vsphere4/r40/vsp_40_san_cfg.pdf

QUESTION NO: 166

What are the two requirements for HA to work?

A. Hosts need to have compatible CPU.
B. Hosts need to have shared storage.
C. Hosts should have a static IP address.
D. You need 2 VMkernel Ports

Answer: B,C

Explanation:

Reference: http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-50-availability-guide.pdf

QUESTION NO: 167

What kind of traffic can be priorized with Network I/O Control? (Choose Three)

A. Virtual Machine
B. vMotion
C. Fault Tolerance
D. FCoE (Fiber Channel over Ethernet)
E. Hardware Dependent iSCSI adapter

Answer: A,B,C

Explanation:

QUESTION NO: 168

Which of the following are only available with vCenter Server? (Choose Three)

A. Fault Tolerance
B. Thin Provisioning
C. Resource Pools
D. Update Manager
E. vMotion

Answer: A,D,E
Explanation:

QUESTION NO: 169

A client wants to create a virtual machine with intense I/O traffic. Which type of disk should he choose? (choose two)

A. Thick Provisioned
B. Flat Disk
C. Raw Mapped Device (RDM)
D. Thin Provisioned

Answer: A,C
Explanation:

QUESTION NO: 170

Which of the following allows the virtual disk of a VM to be migrated to another datastore? (Choose Two)

A. Storage vMotion
B. vMotion
C. VMware Data Recovery (VDR)
D. VM migrated in suspended state

Answer: A,D
Explanation:

QUESTION NO: 171

An administrator has purchased a new 10GB Converged Network Adapter (CNA) for installation in system that is running ESXi 5.x. the administrator has downloaded the latest driver from the

hardware vendor and wants to include the driver in an image. The image profile acceptance level is set to VMwareAccepted and the driver acceptance level is set to Partner Supported.

A. driver will be included, but the support diverted to vendor
B. image will be created but driver will not be included
C. image can not be created
D. driver will include, and support will be provided by VMware.

Answer: C
Explanation:
The acceptance level of all VIBs on a host must be at least as high as the host acceptance level. For example, if the host acceptance level is VMwareAccepted, you can install VIBs with acceptance levels of VMwareCertified and VMwareAccepted, but you cannot install VIBs with acceptance levels of PartnerSupported or CommunitySupported. To install a VIB with a less restrictive acceptance level than that of the host, you can change the acceptance level of the host by using the vSphere Client or by running esxcli software acceptancecommands.

Setting host acceptance levels is a best practice that allows you to specify which VIBs can be installed on a host and used with an image profile, and the level of support you can expect for a VIB. For example, a
CommunitySupported VIB might not be recommended for an ESXi server in a production environment.
http://pubs.vmware.com/vsphere-50/topic/com.vmware.vsphere.upgrade.doc_50/GUID-27BBBAB8-01EA-
4238-8140-1C3C3EFC0AA6.html

QUESTION NO: 172

When creating an alarm which state is not available on the Actions Tab?

A. Red to Green
B. Yellow to Red
C. Green to Yellow
D. Red to Yellow

Answer: A
Explanation:

QUESTION NO: 173

ESXi Server has one HBA with dual port and confiured with zoning and path selection is set to round robin.

How many path (s) will be used by ESXi server to access VMFS?

A. 2
B. 3
C. 1
D. 4

Answer: C
Explanation:
Round Robin alternates paths continuosly - only really utilizing one path. Round Robins USE-CASE is usually when working with active/active SAN Controllers.

QUESTION NO: 174

Windows VM is experiencing the poor application performance. The suspected issue is a lack of available memory. Windows Task Manager shows 30% of the memory within the VM is not currently being used. What this indicate and what could be checked next?

A. Windows Task Manager is not reading actual memory usage in the VM. Windows System Monitor should be used to get precise reading on memory usage.
B. The application problems are defintely due to a non-memory related problem. CPU affinity settings should be checked for this VM.
C. The VM hasd memory available, however it may not actually have "Physical" memory available. VMkernel swap activity on the ESX Server host should be checked next.
D. The application problems are definitely due to a non-memory related problem. CPU utilization should be checked next using Windows Task Manager.

Answer: C
Explanation:

QUESTION NO: 175

How big is the VFAT partition in ESXi5?

A. 544MB
B. 600MB

C. 1.6GB
D. 4GB

Answer: D
Explanation:
http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.install.doc_50/GUID-F149EDB3-F00F-43AB-9508-72331F4FE8DB.html&resultof=%22vfat%22%20%22scratch%22%20

QUESTION NO: 176

What CPU requirements must be in order for VMotion conditions to be satisfied?

A. Same clock speed of CPU
B. Same number of cores
C. Same manufacturer
D. Same Features

Answer: C
Explanation:

QUESTION NO: 177

By default, if you remove a user from an Active Directory domain who is currently logged in to vCenter Server, which of the following actions is taken?

A. The user can remain logged in indefinitely, but once they log out they cannot log back in
B. The user can remain logged in for up to 24 hours
C. The user is logged out of vCenter Server and cannot log back in
D. The user is given a warning they are about to be logged out and given a 1 hour grace period

Answer: B
Explanation:

QUESTION NO: 178
When is the page file for a Windows guest OS or the swap partition for a Linux guest OS created?

A. When the Virtual Machine is created
B. When a Virtual Machine is first powered on
C. When the Guest OS is installed on the Virtual Machine
D. When a reservation is set for the Virtual Machine

Answer: C
Explanation:

QUESTION NO: 179

An administrator decides to implement a Fixed multipath policy for an ESXi Host with 4 available paths and 4 configured vmfs datastores. How many paths will be used by host to send data to the 4 Datastores. (Choose One)

A. 4
B. 8
C. 16
D. 12

Answer: A
Explanation:
vSphere 5 still doesn't offer True multi-pathing like EMC powerpath does. It only uses one path per datastore regardless of the setting...

QUESTION NO: 180

Assuming a user or a group is assigned a single vCenter Server role, if the role is then removed, which of the following occurs?

A. Users or groups are automatically assigned the Read Only role until an administrator can manually assign a new role
B. Users or groups retain the permissions associated with the removed role until they are manually assigned a new role
C. Users or groups assigned the removed role no longer have any permissions in vCenter
D. A role assigned to existing users or groups cannot be removed until all users or groups are removed from the role

Answer: C

Explanation:

QUESTION NO: 181

Assuming the appropriate HA configuration options have been selected, which of the following situations would result in VMware HA restarting virtual machines (Choose Two)?

A. An ESX Server in the cluster becomes isolated from the network
B. An ESX Server in the cluster is put into Maintenance Mode
C. A guest OS is manually powered off
D. A guest OS fails

Answer: A,D
Explanation:
An ESX host that becomes isolated will be assumed to be down from the other HA cluster nodes and WILL have an HA action taken on the VMs on that host. IF the Host Isolation Response has been set to "Power Off" or "Shutdown", VMs which would unlock the disk files so that they could be restarted. If the Host Isolation Response is set to "Leave VMs On", then you will get errors in the vCenter logs indicating that the VM could not be restarted due to the disk files being locked.

Incorrect answer:
A HA event DOES NOT occur if a host is put into maintenance mode.
The purpose of putting a host in maintenance mode is so th at VMs are vMotioned off of the host so that maintenance can be performed.

Topic 2, Main Questions Set B

-

QUESTION NO: 182

A vSphere 5 implementation consists of a fully automated DRS cluster with the following vNetwork Standard Switch configuration.

1. Switch A: two vmnics, one port group named sFTP-PG

2. Switch B: one vmnic, one port group named Web-PG

3. All vmnics are trunked to the same physical switch

DRS has been configured with an anti-affinity rule for all virtual machines in the Web-PG so that no more than half of the virtual machines run on any given host. The virtual machine on WebPG

are experiencing significant network latency. The network team has determined that a performance bottleneck is occurring at the ESXi host level.

Which solution will require the least amount of administrative work and least amount of service interruption?

A. Move a vmnic from Switch A to Switch B on each host.
B. Migrate Web-PG to Switch A and sFTP-PG to Switch B on each host.
C. Convert the three Switcg Bs to a single vNetwork Distributed Switch.
D. Use vMotion to redistribution some of the VMs in Web-PG to a different ESXi host.

Answer: D

Explanation:

Least administrative effort is to use vMotion VMs to a different ESXi host where network latency is reduced.

Incorrect answer:

Creating a vDS requires more administrative .

QUESTION NO: 183

Which two conditions prevent the application of a host profile to access an ESXi host? (Choose two)

A. The host has multiple profiles attached
B. The host has not been placed into maintenance mode
C. The host is running virtual machines
D. The host is an ESXi host

Answer: B,C

Explanation:

QUESTION NO: 184

Which two statements are true regarding a mixed DRS cluster with Intel Intel-Based and AMD-based ESXi hosts? (Choose two)

A. DRS can load-balance running virtual machines, using all hosts in the cluster
B. HA can failover virtual machines to any host in the cluster
C. FT can be configured for this cluster

D. EVC can be enabled for this cluster

Answer: B,C

Explanation:

With vSphere 5 you are still unable to vmotion nbetween processors from AMD and Intel. Advanced vmotion compatibility (EVC) ONLY allows VMotion and DRS to work between different processors from the same vendor. i.e. VMotion between Intel and AMD with EVC turned on is NOT possible.

Reference:
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003212

QUESTION NO: 185

Which memory conservation technique collaborates with the server to reclaim pages that are considered least valuable by the guest operating system?

A. Transparent Page Sharing
B. Memory Balloon Driver
C. Ram Overcommit
D. VMkernel Swap

Answer: B

Explanation:

What the balloon driver does is force the guest OS to relinquish unused and less important OS memory [and therefore physical memory] back to the hypervisor so it can be used for more important function [eg Program space in a neighbouring VM].
Incorrect answer:

Transparent Page Sharing is a process executed frequently by the VMkernel that scans physical memory to identify redundant virtual machine memory pages. When a match is found, the physical page is marked read-only. The VMkernel removes the duplicate page from physical RAM and the page table is adjusted to redirect the virtual machine’s virtual page back to the read-only page in physical RAM. This mechanism results in increasing memory that is shared among running virtual machines over time.

QUESTION NO: 186

On which two vSphere elements can traffic shaping be configured? (Choose two.)

A. On a vNetwork Distributed Switch dvPort or the ennre dvPort group for inbound and outbound traffic
B. On a vNetwork Distributed Switch dvPort or the entire dvPort group for outbound traffic only
C. On a vNetwork Standard Switch port group or the entire vS witch for inbound traffic only
D. On a vNetwork Standard Switch port group or the entire vSwitch for outbound traffic only

Answer: A,D
Explanation:

QUESTION NO: 187

A new ESXi host is set up with two virtual machines. A memory limit is applied do that users will have predictable performance as virtual machines are added to the host.

What is the effect of applying a memory limit these virtual machines?

A. No physical memory will be granted above the limit, unless expandable reservations art enabled.
B. No physical memory will be granted above the limit, but disk pages can be used.
C. Physical memory will be granted above the limit under normal conditions, but he limit will be enforced if connection occurs.
D. Physical memory will be granted above the limit under normal conditions. Disk pages will be used if connection occurs.

Answer: B
Explanation:

QUESTION NO: 188

Which two conditions could prevent HA from powering on a virtual machine? (Choose two)

A. An ESXi host has been placed into maintenance mode
B. The virtual machine has a high priority setting
C. Strict admission control is configured
D. The target ESXi host is not compatible with the virtual machine.

Answer: A,C
Explanation:

QUESTION NO: 189

During peak operating hours, an administrator finds that a business-critical application running on a virtual machine is not performing as well as during normal hours. Which memory management method can be used to guarantee that the application performs well at all times?

A. Set a reservation equal to the average memory utilization of the virtual machine running the application.
B. Set the share level to high for the virtual machine running the application and set the share level for all other virtual machines to low.
C. Set a limit equal to the peak memory utilization of the virtual machine running the application.
D. Set the reservation equal to the Peak memory utilization of the virtual machine running the application.

Answer: D
Explanation:

QUESTION NO: 190

A virtual machine is using Fiber Channel attached RDM LUN.

Which three applications used with the virtual machine would require the RDM to be in physical compatibility mode? (Choose three)

A. SCSI target –based software
B. VMware snapshots
C. Physical server-to-virtual machine clustering
D. Distributed file locking
E. SAN management agent

Answer: A,C,E
Explanation:

QUESTION NO: 191

An administrator is updating a program running on a virtual machine. The update file has been downloaded as an .iso file placed on a shared NFS datastore. An attempt to mount the .iso file to the virtual machine fails, but subsequent testing shows that the .iso file can be mounted to a virtual

machine running on another ESXi host.

Which step can be taken to enable access to the .iso file for the affected virtual machine?

A. Reboot the ESXi host running the affected virtual machine.
B. Remount the NFS volume to the ESXi host running the affected virtual machine.
C. Rescan all datastore.
D. Reboot the NFS server.

Answer: B
Explanation:

QUESTION NO: 192

What is true about Agent VMs?

A. They are restarted on surviving nodes in the event of an HA failover.
B. They have a 1-to-l association with Client VMs.
C. They are tied to a specific ESXi host.
D. They can be vMotion migrated in a DRS cluster.

Answer: C
Explanation:
* If a host stops unexpectedly, VMware HA does not start an ESX agent virtual machine on another host.

QUESTION NO: 193

After installing VMware vCenter Server Appliance, an administrator attempts to configure linked mode. What will cause the attempt fail?

A. An active directory server cannot be located.
B. The vCenter Server appliance cannot be configured in linked mode until installed via the vCenter server appliance administrator interface.
C. A vCenter Server instance must be installed as standalone before the vCenter Server appliance can be joined to it.
D. Linked mode is not available when using the vCenter Server appliance.

Answer: D
Explanation:

Reference: http://pubs.vmware.com/vsphere-50/index.jsp?topic=/com.vmware.vsphere.vcenterhost.doc_50/GUID-0B9988FF-5FB6-4656-9C58-EE3617B57E90.html

QUESTION NO: 194

Which two components must be installed in monitored virtual machines for vSphere HA Application monitoring to work? (Choose two)

A. An Application Monitoring script
B. The Application Monitoring agent
C. VMware Tools
D. The vSphere HA agent

Answer: B,C
Explanation:

QUESTION NO: 195

How can you change the vSphere Storage Appliance (VSA) cluster IP address?

A. Use a supported browser to access the web based management portal on the VSA.
B. Use the vSphere Client logged on to vCenter Server.
C. Use SSH to access the VSA console.
D. Use the vSphere Client logged on to the ESXi host directly

Answer: B
Explanation:

QUESTION NO: 196

When using the Explicit failover option for a virtual switch with multiple uplinks, how does ESXi determine the uplink to use in a failover event?

A. Using link state tracking to see which uplinks are connected.
B. Using beacon probing to discover which uplink has a shortest route.
C. A specified list.

D. Using the reported uptime to determine which uplink to select.

Answer: C
Explanation:

QUESTION NO: 197

vCenter Server is running in a virtual machine that is part of a vSphere HA and DRS cluster. The vCenter Server virtual machine has been tested an can successfully migrate with vMotion between all ESXi hosts in the cluster DRS is configured for partial automation.

What happens if an ESXi host that is running the vCenter Server virtual machine experiences a power outage?

A. All DRS cluster operations will be unavailable until the failed ESXi host is brought back online.
B. vCenter Server will remain offline, but all virtual machines on the remaining hosts will continue without interruption.
C. This situation cannot occur, because vCenter Server cannot be installed on a virtual machine in a vSphere HA cluster.
D. vSphere HA will restart the vCenter Server virtual machine on another host

Answer: D
Explanation:

QUESTION NO: 198

Which two statements are true regarding vSphere virtual switch uplinks? (Choose two.)

A. vSphere virtual switches do not need to be configured with an uplink
B. vSphere virtual switches can be configured to use the same uplink
C. vSphere virtual switches must be configured with at least one uplink
D. Multiple vSphere virtual switches cannot be configured to use the same uplink

Answer: A,D
Explanation:

QUESTION NO: 199

An administrator requires that the vCenter Server Appliance is highly available. Which solution can be utilized to achieve this?

A. vCenter Server Heartbeat
B. vSphereHA
C. vSphere FT
D. Host Based Replication

Answer: B

Explanation:
Reference: http://up2v.nl/2011/07/12/vmware-vcenter-server-appliance/ (3rd paragraph not counting the single line paragraph in the middle)

QUESTION NO: 200

Due to anti-affinity rules, what is an accurate statement about vSphere Fault Tolerant virtual machines?

A. Never located in the same cluster.
B. Never located on the same host
C. Sometimes located on the same host if an HA event occurs.
D. Sometimes located on the same host, but only in a powered-off state

Answer: D

Explanation:

QUESTION NO: 201

An administrator decides to use data recovery to backup some key virtual machines. What is the process to install Data Recover?

A. Run the vCenter installer, using the Custom option as the choice for type of installation, and then follow the prompts to install the tool.
B. Locate the folder on the vCenter mdia and install VDR to the vCenter Server.
C. Copy the OVF from the Data recovery CD and use the vSphere Client to import it.
D. Download the OVF file and copy it to a datastore that is visible to the managed hosts. Right-click the OVF file and select Add to Inventry.

Answer: C

Explanation:

QUESTION NO: 202

A group of virtual machine has been deployed using the disk because of limited storage space availability. The storage team has expressed concern about extensive use of this type of provisioning.

What can be done to to inform an administrator when an unacceptably of virtual machines are being deployed using thin-disk provisioning?

A. Modify the default datastore usage on disk alarm with a determined percentage. Create a trigger for the alarm with an email or SNMP notification option.
B. Use the default host storage Status alarm. Crate a trigger for the alarm with an emailor SNMP notification option.
C. Find the predefined Thin-Provisioned LUN Capacity Exceeded alarm for each datastore. Set an action to enable the email or SNMP notification option.
D. Create an alarm for Disk Usage and determine the appropriate amount. Create a trigger for the alarm with an email or SNMP notification option.

Answer: A
Explanation:

QUESTION NO: 203

Which two actions can be taken using the Plug-in Manager? (Choose two)

A. Disable an installed plug-in
B. Download and Install available plug-ins
C. Configure permissions for a plug-in
D. Remove an installed plug-in

Answer: A,B
Explanation:

QUESTION NO: 204

What are two requirements for successful vMotion migration? (Choose two.)

A. CPUs with the same clock speed and cache size must east on both the source and destination hosts.
B. Gigabit Ethernet networking must exist between the source and destination hosts.
C. Virtual machines must have access to the same subnets on the source and destination hosts.
D. Virtual machines cannot be configured to use RDMs

Answer: B,C
Explanation:

QUESTION NO: 205

Which two vSphere components can be upgraded by Update Manager? (Choose two.)

A. vSphere Management Assistant (vMA)
B. Virtual machine hardware
C. VMFS file system
D. VMware Tools

Answer: B,D
Reference: http://pubs.vmware.com/vsphere-4-esx-vcenter/index.jsp?topic=/com.vmware.vsphere.upgrade.doc_41/esx_upgrade/intro_host/r_list_of_upgraded_components.html

QUESTION NO: 206

What are two benefits of using resource pools? (Choose two.)

A. Access control and delegation
B. Isolation between pools
C. Automatically apply reservations and limits to groups of virtual machines
D. Integration of resources with hardware

Answer: A,B
Explanation:

Using resource pools can provide the following benefits:
* Access control and delegation – When a top-level administrator makes a resource pool available to a department-level administrator, all virtual machine creation and management can then be performed by that administrator within the boundaries of the

resources to which the resource pool is entitled by the current Shares, Reservation, and Limit settings.
* Isolation between pools, sharing within pools – Top-level administrators can make a pool of resources available to an administrator for a department. Allocation changes that are internal to one departmental resource pool do not unfairly affect other unrelated resource pools.

Note: further benefits of resource poles:
* Flexible hierarchical organization – You can add, remove, or reorganize resource pools or change resource allocations as needed.
* Separation of resources from hardware – if you are using clusters, the resources of all hosts are always assigned to the cluster. That means you can perform resource management independently of the actual host machines that contribute the resources. If you replace four 4-way hosts with four 8-way hosts, you don't need to make changes to your resource allocations. This allows administrators to think more about aggregate computing capacity and less about individual hosts.
* Management of sets of virtual machines running a distributed application – You don't need to set resources on each virtual machine. Instead, you can control the aggregate allocation of resources to the set of virtual machines by changing settings on their enclosing resource pool.

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

QUESTION NO: 207

Which network policy is only available with vNetwork Distributed Switches?

A. Port blocking policy
B. VLAN policy
C. Traffic shaping policy
D. Security policy

Answer: A
Explanation:

QUESTION NO: 208

Windows virtual machines use a page file and Linux virtual machines use a swap partition for virtual memory.

When you are determining the appropriate size for these, which file is affected?

A. The -flat vmdk file
B. The vswp file
C. The service console swap partition
D. The vmdk file

Answer: A
Explanation:

QUESTION NO: 209

Which three features can be used in combination with network-attached storage (NAS)? (Choose three)

A. Storage vMotion
B. MSCS clustering
C. Raw device mapping
D. vSphereHA
E. Virtual machine snapshots

Answer: A,D,E
Explanation:

QUESTION NO: 210

What happened to the total number of shares provided to a resource pool by the parent pool (%Shares) if a virtual machine is removed from the resource pool?

A. Remains the same
B. Decrease
C. Increases
D. Decreases
E. Remains the same if a custom share value was configured. Increases if a high, medium, or low value was configured

Answer: D

Explanation:

QUESTION NO: 211

Which two circumstances might cause a DRS cluster to become invalid? (Choose two)

A. A reservation on a parent pool is reduced while a virtual machine is failing over
B. An ESXi host in the cluster has been placed into maintenance mode
C. A migration on a virtual machine is attempted while the virtual machine is failing over
D. Virtual machines have been powered on from a vSphere Client connected directly to an ESXi host

Answer: A,C
Explanation:
A: A cluster becomes invalid if the user reduces the reservation on a parent resource pool while a virtual machine is in the process of failing over.
C: A cluster can also become invalid if you reconfigure a resource pool (such as migrating a virtual machine) while a virtual machine is failing over.
Reference: vSphere 4.1 - ESX and vCenter > vSphere Resource Management Guide > Using DRS Clusters to Manage Resources

QUESTION NO: 212

What are two reasons why a company would choose to use ESXi 5 x instead of using VMware Server 2? (Choose two)

A. The company needs to access its virtual machines remotely, and VMware Server 2 does not support a temote console option
B. The company needs the ability to run dual-processor virtual machines
C. The company is vniuahzing several physical servers and wants a centralized management option
D. The company wants to be able to patch the servers hosting its virtual machines with zero virtual machine downtime

Answer: C,D
Explanation:

QUESTION NO: 213

An administrator views the Fault Tolerance pane of the Summary tab of a virtual machine and finds that the current status is Not Protected.

What are two vSphere Fault Tolerance states that would cause the virtual machine to not be protected? (Choose two)

A. Stopped - Fault Tolerance has been stopped on the secondary virtual machine.
B. Need Secondary VM - The primary virtual machine is running without a secondary virtual machine and is not protected.
C. Need Primary VM - The secondary virtual machine is running, and a new primary virtual machine cannot be generated.
D. Disabled - Fault Tolerance is disabled

Answer: B,D

Explanation:

QUESTION NO: 214

A user wants to receive an email notification when the virtual machine CPU usage enters a critical state, and again when the condition has been resolved.

Which two state changes must be selected to receive the appropriate notifications? (Choose two)

A. Yellow-red state change
B. Red-green state change
C. Yellow-green state change
D. Green-yellow state change

Answer: A,C

Explanation:

The question says it wants an alert when entering "Critical", so the answer should be Yellow-red state change and of course (Yellow-green state change).

QUESTION NO: 215

An administrator notices that when a virtual machine is placed into a resource pool, a warning indicates that the virtual machine will receive a very large percentage of the total shares for the memory.

Which action can be taken to resolve this problem?

A. Increase the memory resource allocation to the resource pool
B. Increase the share value for the resource pool
C. Change the shares setting from custom to high, medium, or low for the virtual machine
D. Decrease the memory allocation for the virtual machine

Answer: C
Explanation:

vSphere Basic System Administration vCenter Server 4.0 ESX 4.0 ESXi 4.0, page 157

The Memory Resources panel lets you allocate memory resources for a virtual machine and specify
reservations, limits, and shares. Symbolic values Low, Normal, High, and Custom are compared to the sum of all shares of all virtual machines on the server and, on an ESX host, the service console.

By decreasing the memory share of a particular system, it receives less memory out of the total available memory.

QUESTION NO: 216

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

A. View vSphere Documentation
B. Browse Datastores in the inventory of this host
C. Download vSphere Client
D. Browse Virtual Machines in the inventory of this host
E. Download VMware Web Access Client

Answer: A,B,C
Explanation:

QUESTION NO: 217

An administrator is migrating a virtual machine in a DRS cluster. The migration fails the validation

check because of a CPU incompatibility issue.

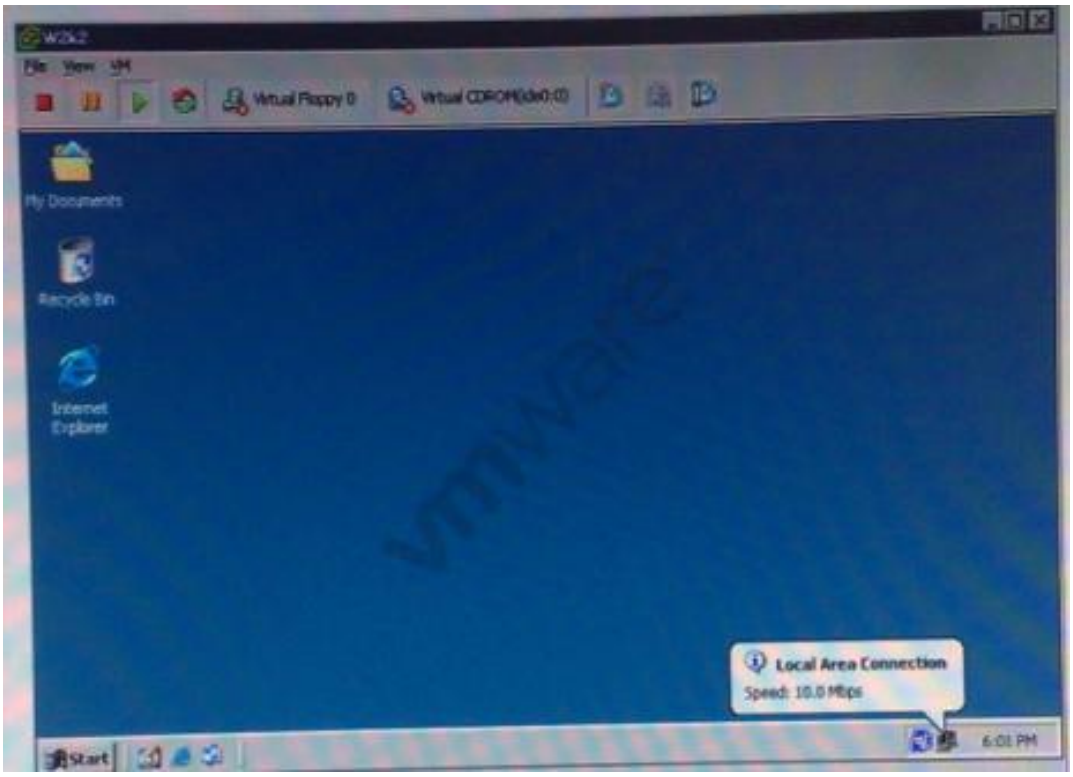
Which two steps can be taken to resolve this issue? (Choose two)

A. Identify the CPU feature incompatibility, and then disable the feature in the BIOS of the effected ESXi hosts.
B. Configure EVC for DRS cluster.
C. Configure EVC for each ESXi host.
D. Identify the CPU feature incompatibility, and then mask the feature on all virtual machines in the cluster.

Answer: B,D
Explanation:
You can use EVC (Enhanced vMotion Compatibility) to help ensure vMotion compatibility for the hosts in a cluster. EVC ensures that all hosts in a cluster present the same CPU feature set to virtual machines, even if the actual CPUs on the hosts differ. This prevents migrations with vMotion from failing due to incompatible CPUs.

QUESTION NO: 218

Exhibit:

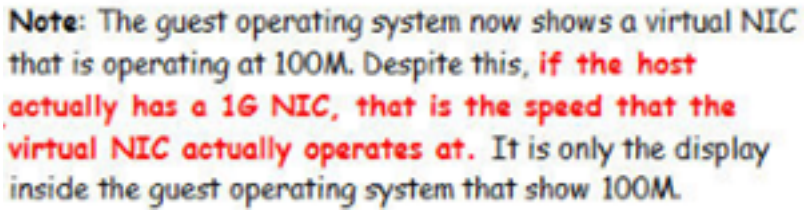


Which statement is true about the network performance of the virtual machine in the exhibit?

A. The virtual machine can send traffic as fast as the underlying physical NIC.
B. The underlying physical NIC is configured for l00Mbps/half-duplex.
C. Virtual switch Autonegotiation settings must to be adjusted to improve performanc
D. The virtual machine can send at the maximum of 10Mbps.

Answer: A

Explanation:



Reference: http://kb.vmware.com/selfservice/microsites/search.do?

language=en_US&cmd=displayKC&externalId=1002456

QUESTION NO: 219

What function does Enhanced vMotion Compatibility provide?

A. The ability to use vMotion to migrate virtual machines between ESXi hosts that have CPUs with hardware virtualization capabilities and CPUs without this feature.
B. The ability to use vMotion to migrate virtual machines between ESXi hosts that have CPUs with a sommon supported baseline.
C. The ability to use vMotion to migrate virtual machines between ESXi hosts with intel CPUs and ESXi hosts with AMD CPUs.
D. The ability to use vMotion to migrate virtual machines between ESXi hosts with different core counts.

Answer: B

Explanation:

EVC-enabled cluster only allows CPUs from a single vendor in the cluster.

QUESTION NO: 220

Which VMware solution uses the security of a vSphere implementation and provides linked-clone technology to virtual desktops?

A. VMware ACE
B. VMware View
C. VMware Workstation
D. VMware ThinApp

Answer: B
Reference: http://www.vmware.com/files/pdf/VMware-View-4-Composer-DS-EN.pdf (page 1, last paragraph)

QUESTION NO: 221

Which two objects can be migrated using the Migrate option in the vSphere Client? (Choose two.)

A. virtual disks
B. templates
C. agent virtual machines
D. virtual machines

Answer: A,D
Explanation:

QUESTION NO: 222

What are three valid subprofile configurations that can be edited with the Host Profile editor? (Choose three.)

A. Permissions
B. Service
C. Storage
D. Firewall
E. CPU

Answer: B,C,D
Explanation:
Storage,Memory reservation,Networking,Date and Time,Firewall,Security,Service and Advanced

QUESTION NO: 223

Which is an important benefit provided by VLANs?

A. Higher network availability
B. Reduced broadcast traffic
C. Higher tolerance to broken physical hardware
D. Improved fault isolation

Answer: B
Explanation:

There are several benefits to using VLAN architecture benefits include:
Increased performance
Improved manageability
Network tuning and simplification of software configurations
Physical topology independence
Increased security options

QUESTION NO: 224

What does vStorage APIs for Array Integration (VAAI) enable?

A. virtual machines to configure storage snapshot consistency groups on supported storage arrays
B. virtual machines to configure storage replication on supported storage arrays
C. supported hardware storage arrays to accelerate virtual machine cloning activities
D. supported hardware storage arrays to accelerate datastore creation

Answer: C
Explanation:
Why Storage with the vStorage API for Array Integration is Better

Arrays integrated with vSphere through the vStorage API for Array Integration create significant advantages to the customer. These advantages can be relied on because they are built on a standard VMware interface, developed in cooperation with participating storage vendors. Customers can be assured that these features will continue to work for the long haul, and that VMware and our partners can effectively ensure quality through multiple product releases.

Integrated products also deliver the following performance advantages:

Increased array scale and operational performance

More effective utilization of storage arrays by virtual machines

Some storage array operations are inherently repetitive. There is little operational value in the traditional model in which the host issues a large number of identical commands in order to complete a this type of operation. By focusing on this class of commands and providing a specialized interface to offload the operation to the array processor with a single comprehensive instruction, host overhead drops dramatically, and array performance increases.
Increased array scale and operational performance: Arrays integrated with VAAI transparently offload certain storage operations to the array, while keeping the management interface intact. This significantly reduces CPU overhead on the vSphere host and consolidates activity on the array processor. Time to complete these operations is reduced, and the array is able to execute more useful work.

More effective utilization of storage arrays by virtual machines: VAAI integration enables three primary features to offload cycles from the host to the array. All qualified partners can leverage these.

Full Copy. This command enables storage arrays to create a complete copy of data within the array without requiring traditional host read / write back sequences. This is useful in any large file duplication because it conserves storage I/O bandwidth, CPU and memory. However, it is extremely efficient for large-scale replication such as volume migration during Storage vMotion. Performance improves, system utilization is reduced, and operational flexibility is increased.

Block Zeroing. This command directs storage arrays to zero out a large number of disk blocks as a simgle instruction. This feature will significantly accelerate provisioning of new virtual machines, especially when they require significant disk space. For multi-VM deployments, this can reduce critical-path time to availability.

Hardware Assisted Locking. This command allows the array to take an active role in locking and unlocking a VMFS cluster file system. When the array ensures protection of the metadata for the file systems, the scalability of large vSphere server farms sharing a data store can be improved. Eliminating this constraint on scalability allows customers greater design flexibility to achieve higher server consolidation ratios, resulting in even greater operational efficiency.

QUESTION NO: 225

When removing a role, which two consequences apply? (Choose two)

A. Users assigned to the removed role are unaffected, but new users cannot be assigned the removed
B. Users assigned to the removed role are automatically assigned the Read Only role

C. Users assigned to the removed role lose all privileges
D. Users assigned to the removed role can be reassigned to any other existing role

Answer: C,D
Explanation:

QUESTION NO: 226

After upgrading an ESXi host to vSphere 5.x from vSphere 4.x, which three actions must be taken? (Choose three.)

A. Update any scripts that reference host SCSI devices.
B. Configure ESXi host networking
C. Configure licensing
D. Reconnect managed hosts to vCenter Server
E. Configure the ESXi firewall

Answer: A,C,D
Explanation:

QUESTION NO: 227

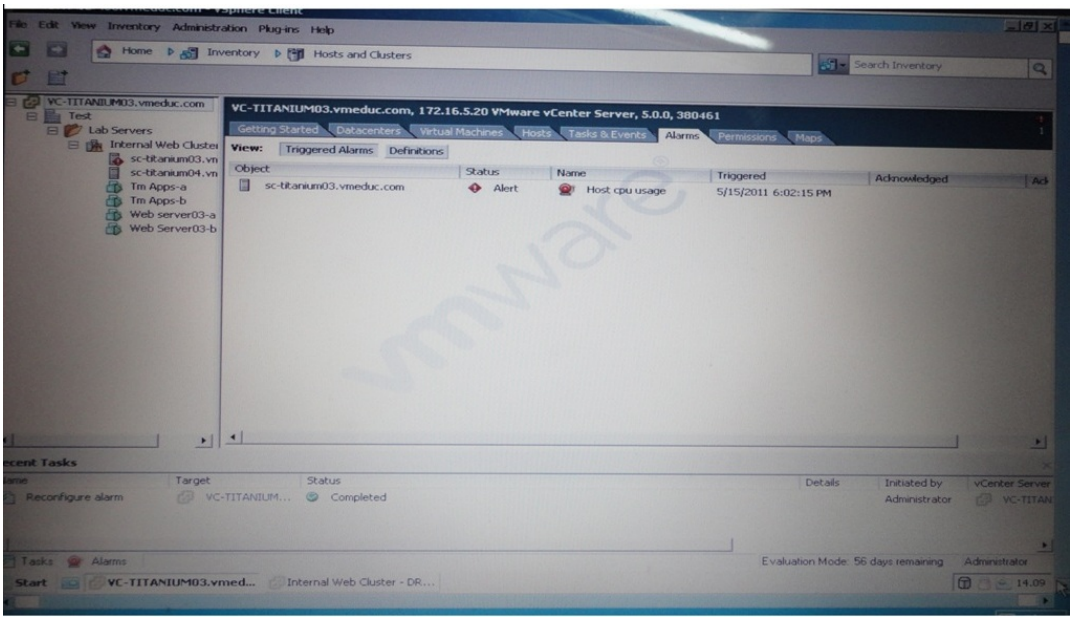
What are two prerequisites for installing vCenter Server? (Choose two)

A. The system vCenter Server is installed and must be a virtual machine.
B. The computer name must be an appropriate length
C. There must be no network address translation (NAT) between the vCenter Server system and the ES3G hosts.
D. The system vCenter Server is installed and must be a domain controller

Answer: B,C
Reference:
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2003790 (Topic: Environmental prerequisites, 6th bulleted point)

QUESTION NO: 228

Exhibit:



Users are having difficulty accessing a web server since a new web application was configured in a virtual machine running on sc-titanrum03.vmeduw.com. The vSphere Client reports the error shown in the Exhibit. DRS is set to fully automated mode, but the problem has nor resolved.

Which action can resolve the issue?

A. Hot-add a CPU to the the web server virtual machine.
B. Add an ESXi host to the cluster
C. vMotion one or more running virtual machines on the ESXi host running the web server virtual machine to the other ESxi host in the cluster.
D. Power off one or more virtual machine on the ESXi host running on the Web server virtual machine and migrate them to the other ESXi host in the cluster.

Answer: C
Explanation:
vMotioning the VMs to the other host would be simpler and less disruptive than powering them off and moving them.

QUESTION NO: 229

What is a valid example of a vSphere Update- Manager orchestrated upgrade?

A. A virtual machine upgrade that upgrades virtual mahcine hardware and VMware Tools at the same time
B. A host upgrade that upgrades and patches multiple ESXi hosts simultaneously
C. A virtual machine upgrade that upgrades virtual machine hardware and VMware Tools in a staged manner with no virtual machine

D. A host upgrade that upgrades multiple ESXi hosts in a staged manner with no host downtime

Answer: A

Explanation:

Update Manager allows you to perform orchestrated upgrades of the ESX/ESXi hosts in your vSphere inventory using a single upgrade baseline. vSphere Update Manager upgrades multiple VMware vSphere components Table 10-1. Upgraded Components Component Upgraded by Update Manager Virtual machine kernel (vmkernel) Yes Service console, where present Yes Virtual machine hardware Yes Virtual Machine Tools Yes Guest operating systems Yes, for SP and patch releases.

QUESTION NO: 230

An administrator is configuring a vSphere HA cluster for three ESXi hosts and their resident virtual machines. The cluster will be configured to support a single host failure. Resource reservations must be enforced during a failover event.

Assuming default settings, how does HA determine the current failover capacity?

A. Using the highest CPU reservation and the available memory values for any given virtual machine in the cluster
B. Using the highest CPU reservation and memory reservation values of any given virtual machine in the cluster
C. Using an average of the total CPU reservation and memory reservation values of all virtual machines in the cluster
D. Using an average of total CPU reservation and available memory values of all virtual machines in the cluster

Answer: B

Explanation:

QUESTION NO: 231

What are three true statements about an integrity check in vCenter Data Recovery? (Choose three)

A. The operation reclaims space on the duplication store
B. The operation can be executed outside of the maintenance window
C. The operation ensures that the duplication store is synchronized with the catalog

D. The operation can be resumed from a previous incomplete integrity check
E. The operation can be incremental

Answer: B,D,E
Reference: http://www.vmware.com/pdf/vdr_12_admin.pdf (page 10, topic: integrity check)

QUESTION NO: 232

An administrator wants to monitor the health status of an ESXi host. However, when the host is selected in the vSphere Client, the Hardware Status tab is not visible.

What might cause this problem?

A. The security settings for Internet Explorer are too high
B. The required plug-in is not enabled
C. The required service is not running
D. The name of the vCenter Server system could not be resolved

Answer: B
Explanation:

QUESTION NO: 233

An administrator is unable to connect a vSphere Client to an ESXi host.

Which option can be selected from the direct console to restore connectivity without disrupting running virtual machines?

A. Restore the Standard Switches
B. Restart the Management Agents
C. Restart the Management Network
D. Disable the Management Network

Answer: B
Explanation:

QUESTION NO: 234

Assuming that ballooning is possible, under which three circumstances might the VMkernel use a swap file for a running virtual machine? Select three.

A. The Mem CtlMaxPercent value is between 10 and 25 percent
B. Memory cannot be reclaimed quickly enough
C. The virtual machine is starting up
D. VMware Tools is not installed
E. 50 percent of the configured memory has already been balooned

Answer: A,B,E
Explanation:

QUESTION NO: 235

Recently, a network interface card in an ESXi 5.x host has been experiencing connectivity problems.

Which two methods can be used to quickly identify the issue and immediately notify an administrator so tha the issue can be resolved? (Choose two)

A. Set up an alarm with the Lost Network Connectivity trigger to send an email for notification when the connection is lost
B. Set up an alarm with the Lost Network Redundancy trigger to send an email for notification when the connection is set
C. Set up an alarm with the Network Redundancy Degraded trigger and configure an SNMP trap for notification when the connection is lost
D. Set up an alarm with the Lost Network Connectivity trigger and configure an SNMP trap notification when the connection is lost

Answer: A,D
Explanation:

QUESTION NO: 236

What does the OVF format allows to be done to virtual machine templates?

A. Upgraded

B. Transported
C. Converted
D. Automated

Answer: B
Explanation:
enables efficient, flexible, and secure distribution of enterprise software, facilitating the mobility of virtual machines and giving customers vendor and platform independence

QUESTION NO: 237

Which two steps are required before VMware Data Recovery can be used? (Choose two)

A. The Data Recovery server component must be installed on the vCenter Server machine
B. A network storage device or hard disk must be added to the backup appliance
C. The vSphere Client plug-in must be installed on the vCenter Server machine
D. The Data Recovery backup appliance must be installed to a managed ESXi host

Answer: C,D
Explanation:
You have to ensure the VMware Data Recovery Plug-In has been properly installed, and the backup appliance has been properly imported and configured before proceeding.

Note: Install the Client Plug-In
Prerequisites
VMware Data Recovery Plug-In connects to the backup appliance using port 22024. If there is a firewall between vSphere Client and VMware Data Recovery appliance, port 22024 must be open before VMware Data Recovery appliance can be managed with the vSphere Client.
Procedure
1. Run the plug-in installer VMwareDataRecoveryPlugin .msi in your vSphere Client machine.
2. Follow the prompts of the installation wizard.
3. Start the vSphere Client, and log in to a vCenter Server.
4. Select Plugins > Manage Plugins and make sure that the Data Recovery plug-in is enabled.
5.You can now use the client plug-in to manage Data Recovery. If the Data Recovery plug-in does not
appear in the vSphere Client, restart the client.
Reference: VMware® Data Recovery 1.0 Evaluator’s Guide, page 9.

QUESTION NO: 238

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

1. vMotion must work in this environment

2. The existing LAN infrastructure must be used

3. The storage must support raw device mapping.

Which storage option best meets the company objectives?

A. iSCSI
B. Fibre Channel
C. SATA
D. NFS

Answer: A
Explanation:
iSCSI SAN Configuration Guide ESX 4.0 ESXi 4.0 vCenter Server 4.0, page 9, 13, 16.

Overview of Using ESX/ESXi with a SAN
Using ESX/ESXi with a SAN improves flexibility, efficiency, and reliability. Using ESX/ESXi with a SAN also supports centralized management and failover and load balancing technologies.
The following are benefits of using ESX/ESXi with a SAN:
You can perform live migration of virtual machines using VMware Vmotion.
Therefore this option would meet requirement (1) VMotion must work in this environment
iSCSI SANs use Ethernet connections between computer systems, or host servers, and high-performance storage subsystems. The SAN components include host bus adapters (HBAs) or Network Interface Cards (NICs) in the host servers, switches and routers that transport the storage traffic, cables, storage processors (SPs), and storage disk systems
Therefore this option would meet requirement (2) the existing LAN infrastructure must be used
Use the vSphere Client to set up a VMFS datastore in advance on any SCSI-based storage device that your ESX/ESXi host discovers. A VMFS datastore can be extended over several physical storage extents, including SAN LUNs and local storage. This feature allows you to pool storage and gives you flexibility in creating the storage volume necessary for your virtual machine.
Therefore this option would meet requirement (3) the storage must support VMFS volumes

QUESTION NO: 239

An administrator revokes user permissions on an object in vCenter Server. At the time the permissions are revoked, the user is actively logged in to vCenter Server through the vSphere Client.

What is true regarding this scenario?

A. The user immediately loses permissions on the object
B. The user retains permissions on the object for up to 24 hours
C. The user retains permissions on the object for up to 24 hours or until the next time the user logs in to vCenter Server
D. The user retains permissions on the object unul the next time the user logs m to vCenter Server

Answer: A

Explanation:

Changes to permissions and roles take effect immediately, even if the users involved are logged in. The exception is searches, where permission changes take effect after the user has logged out and logged back in.
Reference: vsphere-esxi-vcenter-server-50-security-guide, Page 59

QUESTION NO: 240

A windows virtual machine viewed through Task manager shows CPU utilization average 95-100 percent.

What metric be checked to ensure this virtual machine is not in contention for CPU resources with other virtual machine on the same ESXi host?

A. CPU overhead
B. CPU ready
C. CPU usage
D. CPU wait

Answer: B

Explanation:

The VM is utilizing most of the CPU resources allocated to it. The CPU Ready value should be checked to determine if this is a resource constraint.

QUESTION NO: 241

What is a object to which an extent can be added?

A. An NFS datastore
B. An available unused storage volume
C. A VMFS or NFS datastore
D. A VMFS datastore

Answer: D

Explanation:

QUESTION NO: 242

What does the recommended maximum memory value that is displayed when configuring a virtual represent?

A. The value that the operating system vendor reports as being optimal for performance
B. The threshold needed for the ESXi host to satisfy a reservation value
C. The maximum value the guest operating system supports
D. The threshold above which the physical memory of the ESXi host is insufficient to run the virtual machine at full speed

Answer: D

Explanation:

QUESTION NO: 243

When creating a dvport group, which port binding option assigns a port to a virtual machine when the machine is connected to the dvPort Group?

A. Static binding
B. Flexible
C. Ephemeral
D. Dynamic binding

Answer: A

Explanation:

The answer is static, not dynamic, because powering on is not mentioned.
Note:

QUESTION NO: 244

Which two components must be modified to enable jumbo frames support for the software iSCSI initiator? (Choose two.)

A. The virtual switch
B. The virtual machine port group
C. The iSCSI vmhba
D. The VMkernel port

Answer: A,D
Explanation:
iSCSI SAN Configuration Guide ESX 4.0 ESXi 4.0 vCenter Server 4.0, page 30.

If needed, enable Jumbo Frames. Jumbo Frames must be enabled for each vSwitch through the vSphere CLI. Also, if you use an ESX host, you must create a VMkernel network interface enabled with Jumbo Frames.

QUESTION NO: 245

A virtual machine performance graph shows the swap in value to be at 95 percent and the balloon value to be at 0 percent. Users of the virtual machines are complaining that performance is slow.

Which actions can be done to increase performance of the virtual machine? (Choose two)

A. Use Storage vMotion to migrate the virtual machine
B. Change the memory share value for this virtual machine to another datastore
C. Install VMware Tools into this virtual machine to high
D. Change the CPU share value for virtual machine to high

Answer: A,C
Explanation:

C: Yes! If no Vmware tool = no Ballooning

D: This is not a CPU problem. It is a memory problem.

QUESTION NO: 246

Which action can be successfully performed when multiple data centers are configured in vCenter Server?

A. Virtual machines can be failed over to another datacenter (using HA)
B. Virtual machines can exist on hosts in a DRS cluster that spans datacenters
C. Virtual machines in one datacenter can be cloned to another datacenter
D. Virtual machines in one datacenter can be migrated with vMotion to another datacenter

Answer: C
Explanation:

QUESTION NO: 247

An administrator plans to deploy ESXi 5.x. but does not want to use a CD or DVD. What are two alternate ways to provide the ESXi 5.x installer to the host? (Choose two)

A. PXE
B. FTP
C. HTTP
D. USB

Answer: A,D
Explanation:

QUESTION NO: 248

Which two configuration settings can be modified when using the Typical option in the Create New Virtual Machine wizard? (Choose two)

A. Network Adapter type
B. Datastore on which to place the virtual machine disks
C. Disk Provisioning rvpe
D. Number of Virtual CPUs

Answer: B,C

Explanation:

For a Typical configuration, verify that you have the following information:

* Virtual machine name and inventory location.
* Location in which to place the virtual machine (cluster, host, resource pool). (B)
* Datastore on which to store the virtual machine's files (C)
*Sphere Virtual Machine Administration
* VMware, Inc.n Guest operating system and version.
* Parameters for the virtual disk size and provisioning settings.

Reference: http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-50-virtual-machine-admin-guide.pdf (page 32, the last bulleted point on the page; page 33, second bulleted point at the very top of the page)

QUESTION NO: 249

An administrtor has just completed an upgrade of an ESXi 5.x host. Prior to the upgrade, a backup of the host configuration was performed. After the upgrade the backup was restored to the upgraded host. Shortly the administrator receives complaints that users are unable to power on virtual machines.

What are two most likely reasons that VMs cannot power up on this host? (Choose two)

A. The ESXi host had a corrupt installation that was never properly repaired before the backup was taken.
B. The backup applied to the host after the upgrade was taken before the host was licenced.
C. The backup applied to the host after the upgrade corrupted the image.
D. The host was not licenced after the upgrade.

Answer: C,D

Explanation:

QUESTION NO: 250

How are new LUNs discovered by an ESXi host?

A. A rescan operation is periodically performed by ESXi hosts to detect new LUNs.
B. A reboot operation is required every time a LUN is added.
C. A manual rescan operation is required every tame a LUN is added.
D. ESXi hosts automatically detect new LUNs as they are presented.

Answer: C

Explanation:

iSCSI SAN Configuration Guide, page 26.

The VMkernel discovers LUNs when it boots, and those LUNs are then visible in the vSphere Client. If changes are made to the LUNs, you must rescan to see those changes.

New LUNs created on the iSCSI storage

Changes to LUN access control

Changes in connectivity

QUESTION NO: 251

Which two vCenter plug-ins are installed with a default vCenter Server installation ? (Choose two)

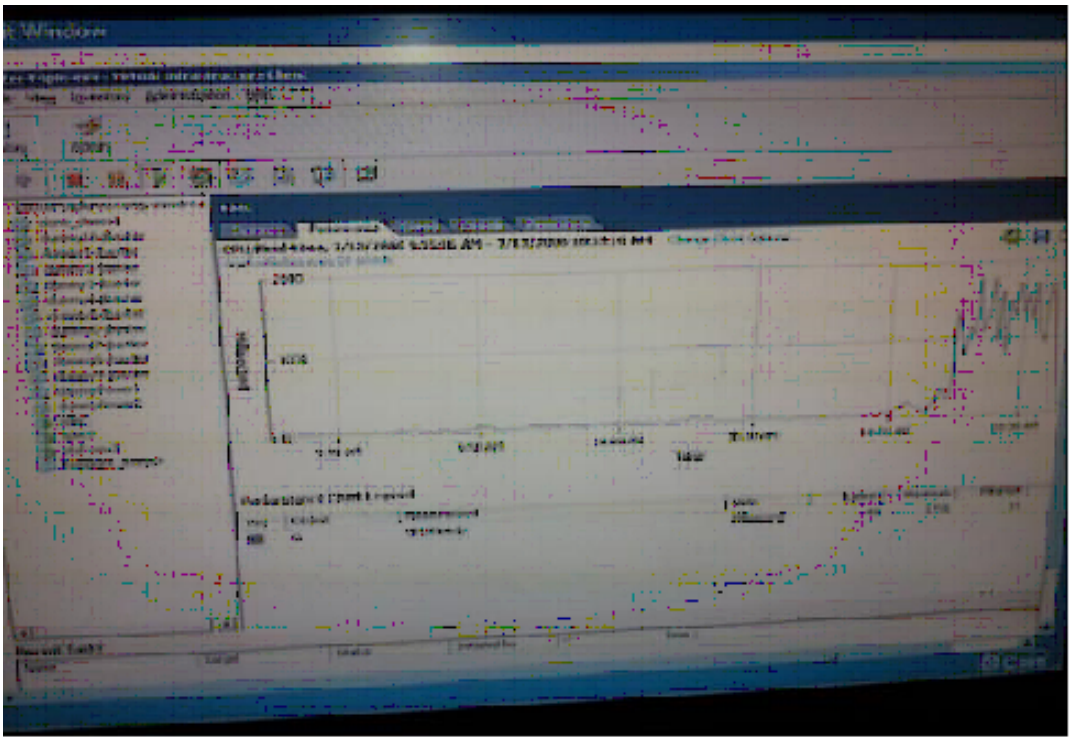
A. VMware vCenter Data Recovery
B. VMware vCenter Service Status
C. VMware vSphere Update Manager
D. VMware vCenter Storage Monitoring

Answer: B,D

Explanation:

QUESTION NO: 252

Exhibit:



Which change will eliminate the symptom m the performance chart shown in the exhibit?

A. Increase CPU limit
B. Increase CPU reservation
C. Increase the number of CPUs on the virtual machine
D. Increase CPU shares

Answer: B

Explanation:

QUESTION NO: 253

An administrator decides ti implement a Fixed multipathing policy for an ESXi host with four available paths and four configured VMFS datastores.

After the policy has been enabled for each datastore, how many paths by default will the host use to send data to the four datastores?

A. 4
B. 3
C. 1
D. 2

Answer: A
Explanation:

QUESTION NO: 254

After an upgrade from ESX/ESXi 4.1 to ESXi 5.0, your monitoring department are reporting that they have

stopped receiving Syslog data from all of the ESXi hosts. What could be the problem?

A. Tech Support Mode is disable by default after an upgrade to ESXi 5.0 stopping all traffic on all ports
B. Custom ports that were opened by using the ESX/ESXi 4.1 esxcfg-firewall command do not get copied
during the upgrade to ESXi 5.0.
C. ESXi 5.0 cannot send logs to Syslog servers.
D. Custom ports that were opened by using the ESX/ESXi 4.1 esxcfg-firewall command do not remain open after the upgrade to ESXi 5.0

Answer: D
Explanation:

QUESTION NO: 255

The VMXNET 3 adapter is only supported on which virtual machine hardware version?

A. Version 6
B. Version 7
C. Version 4
D. All Versions

Answer: B
Explanation:

QUESTION NO: 256

which of these statements are true about vSwicth uplinks? Select two.

A. vSwitch can be configured without uplink
B. vswitch can not be configured without uplink
C. vswitch can be configured with multiple uplinks
D. vswitch can not be configured with multiple uplinks

Answer: A,C
Explanation:

QUESTION NO: 257

How many iSCSI LUN per 5 Host ?

A. 128
B. 127
C. 256
D. 255

Answer: C
Explanation:

QUESTION NO: 258

Which of the following are true about the share value for a virtual machine after it has been

added to a Resource Pool?(Choose Two)

A. If a previously defined custom share value exists, the %Shares value is maintained
B. If a previously defined custom share value exists, the %Shares value is adjusted to reflect the total number
of shares in use in the Resource Pool
C. If a previously defined share level (high, medium, low) exists, the %Shares value is maintained
D. If a previously defined share level (high, medium, low) exists, the %Shares value is adjusted to reflect the total number of shares in use in the Resource Pool

Answer: A,D
Explanation:

QUESTION NO: 259

What are the different security options" to upgrade the hosts with UM ? (choose 3)

A. Important
B. Critical
C. Moderate
D. security
E. general

Answer: B,D,E
Explanation:

QUESTION NO: 260

After deploying vCenter 5.x , where are the licenses stored?

A. License File in ESX host
B. License Server
C. in vCenter License Inventory
D. License file in vcenter server

Answer: C
Explanation:

QUESTION NO: 261

What are the installation requirements of vCenter Server 5? Select two.

A. Must be in a VM
B. DNS Entry needs to be correct (FQDN must resolve to the vCenter IP)
C. No NAT (Network Address Translation) use between vCenter and ESXi for communication
D. vCenter needs to be installed on a domain

Answer: B,C
Explanation:

QUESTION NO: 262

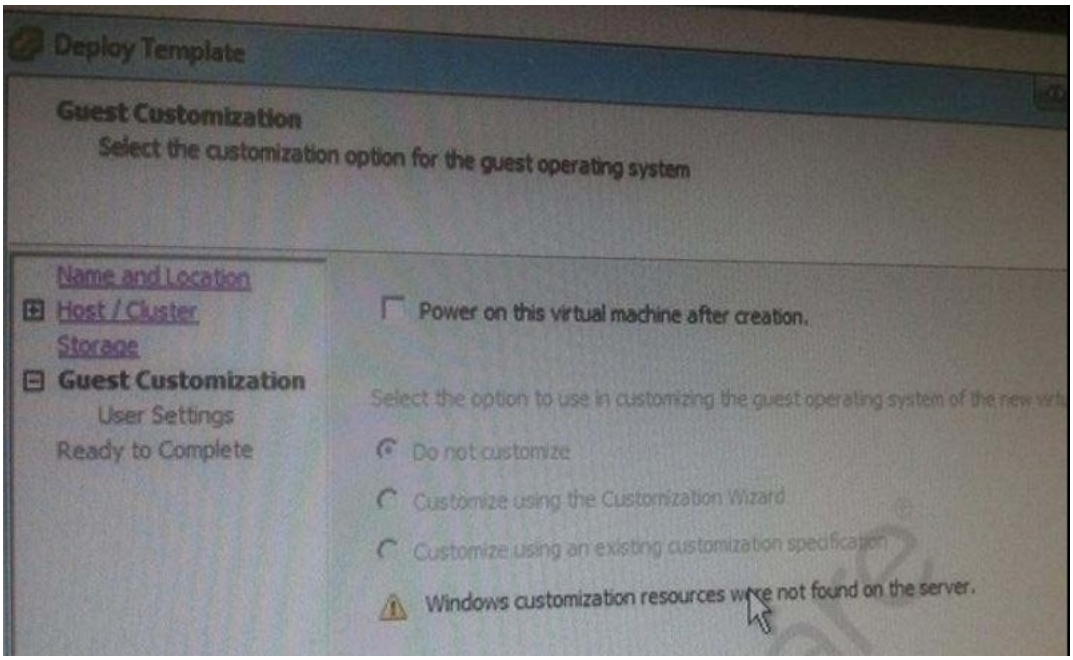
In Map view tab of the vSphere client what type of resources do you see? (Choose Three)

A. Network
B. Storage
C. Host
D. Datastore

Answer: A,C,D
Explanation:

QUESTION NO: 263

An administrator has implemented a new vSphere 5 environment and is deploying their first Windows 2003 x64 wizard, the error shown in the exhibit appears.



What can be done to correct the problem?

A. Install the VMware Quickprep utility
B. Windows 2003 x64 cannot be customized
C. Download and install the Microsoft Sysprep tool into the virtual machine to be customized
D. Download the Microsoft Sysprep tool to the appropriate vCenter Server directory

Answer: D
Explanation:

QUESTION NO: 264

Under which condition will vCenter Server communicate directly with a vSphere HA slave?

A. When distributing the host compatibility list
B. When an update is needed for the list of powered on VMs
C. When powering on a FT secondary VM
D. When distributing cluster configuration updates

Answer: A
Explanation:
Verify that all the configuration files of the FDM agent were pushed successfully from the vCenter Server to your ESXi host
* Location: /etc/opt/vmware/fdm
* File Names: clusterconfig (cluster configuration), compatlist (host compatibility list for virtual machines),hostlist (host membership list), and fdm.cfg.

Reference:
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2004429

QUESTION NO: 265

An administrator is performing upgrades to ESXi 5.0 from ESX 3.x and ESX 4.x hosts. What is true about this procedure?

A. A direct, in-place upgrade can be performed only on ESX 4.1 and later hosts
B. ESX 3.x and later hosts can be upgraded, but the upgrade cannot be performed in place
C. A direct, in-place upgrade can be performed only on ESX 4.0 and later hosts
D. A direct, in-place upgrade can be performed only on ESX 3.5 and later hosts

Answer: C
Explanation:

QUESTION NO: 266

An administrator must perform maintenance on a fibre channel switch connected to vmhba2 on an ESXi host.

The ESXi host has been configured with the Fixed policy, and the preferred path will be impacted by the maintenance event. Which procedure is the least disruptive option that can be taken to prepare for the maintenance event?

A. Change the policy on the ESXi host to MRU for the duration of the maintenance event
B. Use the vSphere Client to disable the path impacted by the maintenance event
C. Unplug the FC cable from vmhba2 for the duration of the maintenance event
D. Unplug the FC cable from the Storage Processor port on the FC array for the duration of the maintenance event

Answer: B
Explanation:

QUESTION NO: 267

Which condition produces a warning message but will allow a VMotion migration to proceed?

A. A virtual machine has an active connection to the ESXi host's CD-ROM drive
B. A virtual machine has a CPU affinity set to run on a specific CPU.
C. A virtual machine is in an MSCS Cluster relationship with another virtual machine
D. A virtual machine is configured to use an internal virtual switch but is not connected to the switch

Answer: D
Explanation:

QUESTION NO: 268

Which two conditions will cause a vMotion validation check to fail? (Choose two.)

A. An active connection that matches an existing port group label on the target host
B. Insufficient network bandwidth on the target virtual switch
C. Different security policies on the target virtual switch
D. An active connection to an internal virtual switch

Answer: C,D
Explanation:

QUESTION NO: 269

An administrator determines that a virtual machine configured for the Development port group lost network

connectivity when it was migrated with vMotion from one ESXi 5.x host to another. The administrator notices

that machines configured for the Production port group are not experiencing the issue. The hosts have port

groups with the following network configuration:

Host A:

Production (VLAN 100)

Development

Host B:

Production (VLAN 100)

Development (VLAN 200)

Which two conditions would explain the loss of network connectivity for the virtual machine? (Choose two.)

A. The configured VLAN for Production on Host A is incorrect.
B. The configured VLAN for Development on Host B is incorrect.
C. An improper native VLAN is configured on the uplinks to Host A.
D. An improper native VLAN is configured on the uplinks to Host B.

Answer: B,C
Explanation:

QUESTION NO: 270

An administrator has a mixture of Intel-based ESX Hosts in a DRS cluster where the CPUs are compatible in

every way except that some support the NX/XD feature and some do not. Which two actions will minimize the effect of these differences? (Choose two.)

A. Mask the NX/XD bit in the Processor section of the Configuration tab on the ESXi hosts
B. Mask the NX/XD bit on every virtual machine in the cluster
C. Enable Enhanced VMotion Compatibility
D. Enable Rapid Virtualization Indexing

Answer: B,C
Explanation:

QUESTION NO: 271

A storage array containing a VMFS datastore must be taken offline for maintenance. What can be

229 done to avoid virtual machine downtime on VMs running in this datastore?

A. Clone the virtual machines to a VMFS datastore on a different storage array.
B. Use Site Recovery Manager to failover the virtual machines on the storage array to the recovery site.
C. Use vSphere HA to failover the virtual machines to ESX Servers attached to a different storage array.
D. Use Storage VMotion to migrate the virtual machines to a VMFS datastore on a different storage array.

Answer: D
Explanation:

QUESTION NO: 272

What would cause the proportional share mechanism to be invoked?

A. there is resource contention
B. CPU ready time exceeds a threshold
C. More than 1 virtual machine is running
D. the sum of reservations exceeds the physical resources

Answer: A
Explanation:

QUESTION NO: 273

Which memory conservation technique allows the secure elimination of redundant copies of memory pages

between virtual machines on the host?

A. VMkernel Swap
B. Memory Balloon Driver
C. RAM Overcommit
D. Transparent Page Sharing

Answer: D
Explanation:

QUESTION NO: 274

Which functionality does vSphere HA provide?

A. Automatic restart of virtual machines
B. Automatic balancing of server workloads
C. High availabilty of ESXi hosts in a cluster
D. Zero downtime for virtual machines

Answer: A
Explanation:

QUESTION NO: 275

Which two actions have no effect on the amount of physical memory resources used for virtualization overhead? (Choose two.)

A. Installing a 64-bit versus 32-bit operating system.
B. Increasing the amount of RAM in the virtual machine.
C. Increasing the number of virtual CPUs in the virtual machine.
D. Increasing the memory shares for the virtual machine.

Answer: A,D
Explanation:

QUESTION NO: 276

When defining a NIC team (bond) on an vNetwork Standard Switch, it is possible to designate some of the physical NICs that make up the bond as "standby" NICs. Which statement most accurately describes the purpose of a standby NIC?

A. Used to implement traffic shaping for the rest of the team.
B. Used only in the case of the failure of other NICs in the team.
C. Not used as part of the team until activated by the administrator.
D. Used only when network traffic exceeds the capacity of the rest of the team.

Answer: B
Explanation:

QUESTION NO: 277

An administrator finds that the Hardware Status tab is unavailable when an ESXi host is selected in vCenter Server. Which two steps could be taken to investigate the issue? (Choose two.)

A. Check the status of the CIM Data Feed in vCenter Service Status
B. Check the status of the vCenter Hardware Service in the Windows Services applet
C. Check the status of the vCenter Hardware Service in the Plug-in Manager
D. Check the status of the CIM Data Feed on the ESXi host

Answer: A,C

Explanation:

A (not D): VMware vCenter Server 4.0 features a service management console that displays the health of the components of vCenter and its associated extensions. Based on the health status, you can quickly identify and correct failures in the management infrastructure. vCenter Service Status will display a warning message under various conditions including:

* Any of the vCenter database stats rollup jobs is not causing stats data to be correctly rolled up in the database

*CIM data feed is unable to receive inventory data required for providing hardware monitoring functionalityfor VMware ESX hosts

* There is an error connecting to LDAP

Reference: Monitoring-vCenter-Health-Using-vCenter-Service-Status-Console, Page 128

QUESTION NO: 278

What are the iSCSI discovery methods that are supported by ESXi hosts?

A. Static Targets, Dynamic Targets
B. Static Discovery, SendTargets
C. Static Discovery, FindTargets
D. Dynamic Discovery, FindTargets

Answer: B

Explanation:

The ESX/ESXi system supports these discovery methods:

*Static Discovery. The initiator does not have to perform any discovery. The initiator has a list of targets it can contact and uses their IP addresses and target names to communicate with them.

*Dynamic Discovery. Also known as Send Targets discovery. Each time the initiator contacts a specified iSCSI server, the initiator sends the Send Targets request to the server. The server responds by supplying a list of available targets to the initiator. The names and IP addresses of these targets appear on the Static Discovery tab. If you remove a static target added by dynamic discovery, the target might be returned to the list the next time a rescan happens, the HBA is reset, or the host is rebooted.

Reference: sphere4/r40/vsp_40_iscsi_san_cfg.pdf, page 39

QUESTION NO: 279

Which VMware solution provides rich, personalized virtual desktops to Thin Clients and repurposed PCs with all the benefits of centralized desktop management?

A. VMware Workstation
B. VMware Fusion
C. VMware ACE
D. VMware View

Answer: D
Explanation:

QUESTION NO: 280

What method would you use to deploy VMware Data Recovery? (Choose One)

A. Download the OVF and import it using the vSphere Client
B. Run the vCenter installer using Custom as the choice for type of installation then follow the prompts to install the tool.
C. Locate the folder on the vCenter media and install VDR to the vCenter Server
D. Download the OVF and copy it to a datastore that is visible to the managed hosts. Right-click on the .ovf file and choose Add to Inventory

Answer: A
Explanation:

QUESTION NO: 281

A vSphere 5 implementation contains two ESXi hosts, ESXi01 and ESXi02. A virtual machine, VM21a on

ESXi01 is connected to a vSphere Standard Switch (vSS) in a port group called Production. The vSS is

connected to an uplink on the 10.1.20.0/24 network. ESXi02 is configured with a vSS connected to an uplink on the 10.1.30.0/24 network. A port group called Engineering exists on this switch.

Which two statements are true about this configuration? (Choose two.)

A. Broadcasts from the Production port group can be received on the Engineering port group.
B. Broadcasts from the Production port group can not be received on the Engineering port group.
C. The virtual machine can be vMotion migrated to the target host.
D. The virtual machine can not be vMotion migrated to the target host.

Answer: B,D
Explanation:

QUESTION NO: 282

When is a 64-bit Windows Operating System required for the installation of vCenter Server?

A. When the managed vSphere environment exceeds 200 ESX hosts
B. When the managed vSphere environment exceeds 1000 virtual machines
C. When deploying vSphere 4.1 or later
D. vCenter Server is not supported on 64-bit Windows operating systems

Answer: C
Explanation:

QUESTION NO: 283

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

A. Jumbo Frames
B. NetQueue
C. EtherChannel
D. PortFast

Answer: A
Explanation:

QUESTION NO: 284

To prevent non-ESXi hosts from seeing VMFS datastores, which would be the most efficent place to configure LUN masking?

A. on the ESXi host
B. on the SAN Storage Device
C. on the non-ESXi hosts
D. on the Fibre Channel Switch

Answer: B
Explanation:

QUESTION NO: 285

An administrator is setting up vMotion in a vSphere environment. A migration is run to test the configuration, but fails. On which vSphere component does vMotion need to be enabled?

A. vCenter Server
B. Virtual Machine port group
C. VMkernel port group
D. vNetwork Standard Switch

Answer: C
Explanation:

QUESTION NO: 286

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

template? (Choose three.)

A. Deploy the virtual machine to a different host using the same datastore
B. Enable DRS on the cluster to balance the virtual load out across hosts
C. Increase the virtual machine memory reservation
D. Move the swap file to a different location
E. Select a different datastore for the virtual machine

Answer: B,D,E

Explanation:

B: VMware DRS (Distributed Resource Scheduler) is a utility that balances computing workloads with available resources in a virtualized environment.

QUESTION NO: 287

Which vSphere feature provides for the dynamic allocation of storage capacity for individual virtual machines?

A. vStorage VMFS Volume Grow
B. VMware vStorage Thin Provisioning
C. VMware vStorage APIs
D. VMware ThinApp

Answer: B

Explanation:

QUESTION NO: 288

You have 50 virtual machines (VMs) running across five ESXi hosts in a DRS Cluster in a production

environment for a number of weeks. Several VMs running on one of the ESXi hosts suddenly blue-screen.

What is the most likely cause of the failure?

A. A patch recently applied to all virtual machines.

B. A driver recently applied to all virtual machines.
C. A VMkernel panic on the ESXi host running the failed virtual machines.
D. A hardware problem on the ESXi host running the failed virtual machines.

Answer: D
Explanation:

QUESTION NO: 289

What is the connection type of the primary VLAN in a Private VLAN?

A. Promiscuous
B. Isolated
C. Community
D. Trunked

Answer: A
Explanation:

QUESTION NO: 290

Which of the following actions requires a reboot of an ESXi host?

A. Changing the number of ports on a virtual switch
B. Implementing VLANs in a virtual switch
C. Adding a second VMkernel port to a virtual switch
D. Configuring a NIC team for a virtual switch

Answer: A
Explanation:

QUESTION NO: 291

An administrator finds that an ESXi host cannot be managed by vCenter Server. Which three logs can be

reviewed using the DCUI? (Choose three.)

A. The ESXi shell logs
B. The HA agent logs
C. The Management Agent log
D. The vmkernel log
E. The VMware ESXi Observation log

Answer: C,D,E
Explanation:

Reference (showing the three logs):
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2004201

QUESTION NO: 292

At which two levels can blocking policies be applied on a vNetwork Distributed Switch? (Choose two.)

A. Virtual Adapter
B. dvUplink
C. dvPort Group
D. Physical Adapter

Answer: B,C
Explanation:

QUESTION NO: 293

Which of the following ports is not required by vCenter Server?

A. 80
B. 902
C. 25
D. 443

Answer: C
Explanation:

QUESTION NO: 294

What is true about transparent memory page sharing?

A. It will not share more than 65% of a VMs memory.
B. It must be enabled on each host
C. It is enabled by default
D. It cannot be disabled.

Answer: C
Explanation:

QUESTION NO: 295

You have a Windows 2003 Server virtual machine (VM) that is experiencing performance problems.

Task Manager displays the following information:

CPU Usage: 85%

Memory Available: 3 GB

Network Utilization: 25%

vCenter Server displays this additional information:

ESXi host CPU Utilization: 60%

VMkernel Swap Activity: None

Average Network Usage: 900 Mbps

What is the most likely cause for the performance problems?

A. The VM is CPU constrained.
B. The ESXi host is CPU constrained.
C. The ESXi host NIC is being over utilized.
D. The ESXi host needs more memory installed.

Answer: C
Explanation:

QUESTION NO: 296

Which three Path Selection Policies are supported by default in vSphere? (Choose three.)

A. MRU (Most recently used)
B. Round Robin
C. Fixed
D. Least I/O
E. Least Busy

Answer: A,B,C
Explanation:

QUESTION NO: 297

What is the maximum number of VMkernel swap files that an ESXi host can have on a single VMFS volume?

A. 1
B. VMkernel swap files must be stored locally on the ESXi host
C. 1 per virtual machine
D. 1 per virtual disk

Answer: C
Explanation:

QUESTION NO: 298

You are running into disk contention problems on a VMFS datastore. Which two actions will resolve this problem? (Choose two.)

A. Adjust disk shares for each ESXi host accessing this datastore.
B. Adjust disk shares for all virtual machines accessing this datastore from the same ESXi host
C. Move some of the virtual machines from this VMFS datastore to another datastore on the same LUN.
D. Move some of the virtual machines from this VMFS datastore to another datastore on a

different LUN.

Answer: B,D
Explanation:

QUESTION NO: 299

What two things are controlled by the DRS automation level? (Choose two.)

A. VM isolation response
B. VM restart priority
C. VM migration
D. Initial placement of VMs

Answer: C,D
Explanation:

QUESTION NO: 300

An ESXi host is configured to access an iSCSI target using CHAP authentication. What happens to the access if CHAP is disabled on the ESXi host?

A. Access is unaffected until the CHAP is disabled at the iSCSI target
B. Access is immediately removed
C. Access is unaffected until either the ESXi host or the iSCSI Array are restarted
D. Access is removed on the next rescan

Answer: C
Explanation:

QUESTION NO: 301

An administrator is configuring a vNetwork Standard Switch for load balancing. The physical network is configured for switch-assisted load balancing using EtherChannel. Which load-balancing policy must be used to support this configuration?

A. Route based on source MAC hash

B. Route based on IP hash
C. Route based on the originating port ID
D. Route using Round-Robin

Answer: B
Explanation:

QUESTION NO: 302

An administrator would like to set up Host Profiles in a vSphere architecture. Using the vSphere Client, the administrator connects to vCenter Server and navigates to Management, then begins to build a new Host Profile but is unable to save the profile. Why is the administrator unable to save the completed profile?

A. The administrator does not have the proper vSphere edition so this feature is not licensed
B. The Host Profiles service is stopped and must be restarted to access this option
C. No ESXi hosts have been added to vCenter Server, and this option will not be available until at least one
host is managed
D. No DRS/HA Cluster has been defined, and Host Profiles must be applied to a cluster.

Answer: A
Explanation:

QUESTION NO: 303

Which CHAP authentication mechanism is available when using software iSCSI and dependent hardware iSCSI? Select two.

A. Mutual CHAP
B. Per-subnet CHAP
C. Per-target CHAP
D. One-way CHAP

Answer: A,D
Explanation:
One-way CHAP and Mutual CHAP are ok for software and dependent hardware iSCSI adapters.

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QUESTION NO: 304

vSphere environment has experienced a failure event and VMs migarted from one datastore to another. Before the migration all VMS run correctly. After the migration several VMs blue-screened. Only Windows VMs faulted. What can fix the problem:

A. Specify disk write delay inside OS to 30-60 seconds
B. Specify disk write delay inside OS to 60-90 seconds
C. Make sure VMs use LSI Logic controller
D. Make sure VMs use Bus Logic controller

Answer: B
Explanation:
Path failover refers to situations when the active path to a LUN is changed from one path to another, usually because of some SAN component failure along the current path. A server usually has one or two HBAs and each HBA is connected to one or two storage processors on a given SAN array. You can determine the active path, the path currently used by the server, by looking at the LUN's properties.
When an FC cable is pulled, I/O might pause for 30-60 seconds until the FC driver determines that the link is unavailable and failover has occurred. As a result, the virtual machines, with their virtual disks installed on SAN storage, can appear unresponsive. If you attempt to display the host, its storage devices, or its adapter, the operation might appear to stall. After failover is complete, I/O resumes normally.
In case of disastrous events that include multiple breakages, all connections to SAN storage devices might be lost. If none of the connections to the storage device is working, some virtual machines might encounter I/O errors on their virtual SCSI disks.

Reference:
http://pubs.vmware.com/vsp40_i/wwhelp/wwhimpl/js/html/wwhelp.htm#context=fc_san_config&file=c_failover.html

QUESTION NO: 305

A user was previously assigned a permission to create alarms.

What can the user do after the permission is removed?

A. User cannot create new alarms, but can modify or delete existing ones
B. User cannot create new alarms, and cannot modify or delete existing ones
C. Alarms tab will be greyed out

Answer: C
Explanation:
The user will no longer have any permissions to create alarms (under the assumption that he has no other permissions related to alarms). So the Alarms tab will be greyed out for him.

QUESTION NO: 306

What all can be upgraded using VMware vCenter Update Manager v5? (Choose 2)

A. Template
B. VMware Tools
C. VM Hardware
D. Linux
E. Windows & Linux

Answer: B,C
Explanation:

QUESTION NO: 307

Which CHAP authentication mechanisms are only available when using software and dependent hardware iSCSI adapters (Choose Two)?

A. Mutual CHAP
B. Per-Subnet CHAP
C. Per-target CHAP
D. One-way CHAP

Answer: A,C

Explanation:

QUESTION NO: 308

Some VMware Data Recovery backup jobs are not completing. What could cause this? Select two.

A. 4 GB of free space on the DR datastore
B. Four backup jobs are running
C. Four restore jobs are running
D. ESXi host processor utilization above 90%

Answer: A,D
Explanation:

QUESTION NO: 309

DRS on a cluster with two ESX Hosts is set to Fully Automated mode. One server in the cluster is running at 98% CPU utilization, while the other host is running at 52% utilization.

Upon analysis, it appears that none of the virtual machines (VMs) are being migrated to the other server, and no recommendations are being generated. Which of the following are the most likely causes of the problem

(Choose Two)?

A. The ESX Server has CPU features that are incompatible with other hosts in the cluster
B. The VMotion licenses for the cluster have expired
C. The current DRS Migration Threshold setting is too conservative
D. Insufficient resources exist to perform the VMotion migration

Answer: A,D
Explanation:

QUESTION NO: 310

What are the differences between Private and Public Cloud Computing?

A. private cloud is provided to a single party, public is provided to public and organizations
B. private cloud is managed by a single party & public cloud is managed by third-party
C. private cloud is on-premises & public cloud is off-premises
D. unknown choice

Answer: A

Explanation:

QUESTION NO: 311

Users are complaining that a Windows application server Virtual Machine configured with 1GB RAM is not performing satisfactorily. An administrator opens the Performance Tab for the guest virtual machine and adds the counter for Memory Ballooned in MB. The Performance Chart displays 0 in balloon's value and a value of 240 in swap usage.

Which of the following actions should be taken?

A. Adjust the Mem.CtlMaxPercent to read 75.
B. Install VMware tools
C. Migrate the Virtual Machine to another host.
D. Add more memory to the Virtual Machine.

Answer: D
Explanation:
Memory Balloon.
This counter reflects the total amount of memory the VMkernel is effectively "borrowing" from virtual machines via the VMTools balloon driver running inside the guest OS. Balloon driver activity indicates over-commitment of ESX host memory. By default, the VMkernel may balloon up to 65% of a virtual machine’s configure RAM. Users are complaining that a Windows application server is not performing satisfactorily. The Memory Balloon counter indicates that memory is being borrowed by the Vmkernel from the virtual machine, indicating that the host has insufficient memory to service requirements from all virtual machines. Therefore either more memory should be added to the host or the guest should be moved to a system with more free memory.

Reference: Memory Provisioning Recommendations for VMware Infrastructure 3 Operational Best Practices, page 11.

QUESTION NO: 312

An administrator has 2 ESX Hosts, both with a Production and a Test Resource Pool. Which of the following is true when these hosts are added to a cluster that is not enabled for DRS?

A. The resource pools are grafted into the cluster, resulting in 2 sets of separate Production and Test pools
B. The resource pools are combined into a single Production and a single Test pool for the cluster
C. The resource pools are removed
D. An option is given during the process to graft or combine the pools

Answer: C

Explanation:

QUESTION NO: 313

What three actions should be taken before the upgrade from ESX4.x to ESXi5?

A. backup the host config using vicfg-cfgbackup command
B. save custom scripts
C. backup all .vmx files
D. create host profile using vCenter server
E. backup local images

Answer: B,C,E

Explanation:
Reference: http://pubs.vmware.com/vsphere-50/topic/com.vmware.vcli.examples.doc_50/cli_manage_hosts.4.4.html

QUESTION NO: 314

There are two virtual machines, VM23 and VM43. The web application running in VM23 wants to be brought online together with the database hosted in VM43. What is the DRS rule to apply?

A. separate the virual machines
B. virtual machines to hosts
C. DRS host groups
D. keep the virtual machines together

Answer: C

Explanation:

A DRS Host Affinity rule can accomplish this.

QUESTION NO: 315

An administrator in configuring an ESXi host with two dual port FC adapter. The FC storage has four FC controllers Using Round Robin.

How many paths are used at any given time ?

A. 0
B. 1
C. 2
D. 3
E. 4
F. 5

Answer: C
Explanation:

QUESTION NO: 316

Which two resources can be viewed using Vcenter Maps (choose two)?

A. Network resources
B. Datastore resources
C. Host resources
D. HA resources

Answer: A,B
Explanation:

QUESTION NO: 317

A database administrator has requested a disk for a virtual machine that will run an I/O intensive

database application on an ESXi 5.x host.

Which two disk types will best fit the needs of the application? Select two.

A. Raw Device Mapped Disk
B. Thin Provisioned Disk
C. Flat Disk
D. Thick Provision Disk

Answer: A,D

Explanation: