VMware

Exam VCP510PSE

VMware Certified Professional on vSphere 5

Version: 39.0

[Total Questions: 303]

Topic 1, Plan, Install, Configure and Upgrade vCenter Server and VMware ESXi

 Question No : 1 - (Topic 1)

Which VMwaresolution 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 : 2 - (Topic 1)

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

Which vSphere component when upgraded will have the least impact to the existing environment?

A. Virtual Machine Hardware
B. ESX Hosts
C. VMFS datastores
D. VMware Tools

Answer: D
Explanation:
VMware Tools isn't a single application but a set of drivers, services and user processes that's installed in a guest operating system. They add a wide assortment of functionality to VMware infrastructures -- everythingfrom improving color depth and video resolution in the vSphere Client to memory optimization.

Typically, an outdated version of VMware Tools doesn't have an immediate impact. But

with every update to vSphere, you'll likely have to update VMware Tools on every virtual machine.

Question No : 3 - (Topic 1)

An administrator is using Update Manager 5.x to update virtual appliances in a vSphere environment. The environment is using the vCenter Server Virtual Appliance (vCSA).

What would cause the remediation to fail?

A. Updating of the appliance can only be done if the vCenter Server Virtual Appliance (vCSA) has been put into Maintenance Mode.
B. Remediation must be configured on the Appliance Administration page before use.
C. Remediation of the vCenter Server VirtualAppliance (vCSA) with Update Manager is not supported.
D. Remediation requires the hosts to be connected to vCenter using an IPv4 address.

Answer: D
Explanation:
Update Manager 5.0 does not support virtual machine patch baselines.If a host is connected to vCenter Server by using an IPv6 address, you cannot scan and remediate virtual machines and virtual appliances that run on the host.

Question No : 4 - (Topic 1)

An administrator is working to update the hosts and virtual machines in a vSphere 5.x deployment usingUpdate Manager Baselines.

Other than host patches, which three items require a separate procedure or process to update? (Choose three.)

A. Operating system patches
B. Virtual Appliance updates
C. Virtual Machine Virtual Hardware upgrades
D. VMware Tools on machines without VMware Tools already installed

E. Application patches within the virtual machine

Answer: A,D,E

Explanation:

Operating system patches are related to operating system so they need a separate procedure altogether. Same is the case withVMware tools and applications patches because applications are stand alone pieces of code that need separate procedure to apply a patch.

Question No : 5 - (Topic 1)

A series of Auto Deploy ESXi 5.x hosts, which utilize vSphere Standard Switches, 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 are unable to connect to the SAN.
B. The TFTP server is down.
C. The DNS server is down.
D. The DHCP server is down.

Answer: B,D

Explanation:

If the TFTP server is down, ESXi will not boot because it needs TFTP to get the information. Similarly, when DHCP is down, it will not assign the IP addresses and ESXi needs IP address to boot properly.

Question No : 6 - (Topic 1)

An administrator wants to monitor the health status of an ESXi 5.x host. However, when the administrator clicks the Hardware Status tab the following error is displayed.

This program cannot display the webpage

What might cause this problem?

A. The VMware VirtualCenter Management Webservices Service is not started.
B. The required plug-in is not enabled.
C. The VMware ESXi Management Webservices Service is not started
D. The name of the vCenter Server system could not be resolved.

Answer: A

Explanation:

Verify that the VMware VirtualCenter Management Webservices service is running on the vCenter Server system. Navigate to the vCenter Server system in the inventory and select Monitor > Service Health. The page displays the following message if the VMware VirtualCenter Management Webservices service is not started.

Could not get vCenter Health status

If you see this error message, start the VMware VirtualCenter Management Webservices service.

Question No : 7 - (Topic 1)

An administrator would like to have vCenter 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. Power on a VM
B. Reboot Guest onVM
C. Increase Virtual Machine Memory
D. Migrate a VM
E. Increase Virtual Machine CPU Shares

Answer: A,B,D

Explanation:

Power on a VM, reboot guest and Migrate a VM will be the actions taken by vCenter Server in response to a trigger without needing ascript.

Question No : 8 - (Topic 1)

An administrator has purchased a new 10GB Converged Network Adapter (CNA) for installation in a system that is running ESXi 5.x. The administrator has downloaded the latest driver from the hardware vendor and wants to include thedriver in an image. The image profile acceptance level is set to VMwareSupported. The acceptance level of the driver is VMwareSupported.

Which two statements are true about the inclusion of this driver in the image? (Choose two.)

A. Support calls for thedriver will be directed to the partner.
B. The image can be built, but the driver will not be included in the image.
C. The image can be built and the driver will be included.
D. Support calls for the driver will be handled by VMware.

Answer: A,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 VMware Accepted, you can install VIBs with acceptance levels of VMware Certified and VMware Accepted, butyou cannot install VIBs with acceptance levels of Partner Supported or Community Supported. To install a VIB with a less restrictive acceptance level thanthat of the host, you can change the acceptance level of the host by using the vSphere Client or by running esxcli software acceptance commands.

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 Community Supported VIB might not be recommended for an ESXi server in a production environment.

http://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc_50%2FGUID-27BBBAB8-01EA-4238-8140-1C3C3EFC0AA6.html

Question No : 9 - (Topic 1)

What are the three service offerings provided by a VMware-powered public cloud? (Choose three.)

A. Committed
B. Transient
C. Dedicated
D. Highly Elastic
E. Basic

Answer: A,C,E

Reference:http://www.vmware.com/files/pdf/cloud/VMware-ServiceDef-Public-Cloud-11Q1-White-Paper.pdf(page 6, see service offerings)

Question No : 10 - (Topic 1)

An administrator has been tasked with upgrading an existing host from ESX 4.1 to ESXi 5.x. The existing host has only vSwitch0 with all the default settings.

The upgraded host will have the following new requirements:

1. 116 virtual machines will be connected.

2. Four uplinks configured for port-based load balancing.

3. The switch will include a secondary heartbeat network for HA.

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

A. The Service Console Port will be removed during the upgrade
B. The configuration requires only one VMkernel Port
C. The default vSwitch0 is sufficient for this configuration
D. A change to vSwitch0 Properties isrequired

Answer: A,D

Explanation:

VMware has removed the service console port group with the release of vSphere 5. You can execute the same command, which you used to do on vSphere 4 service console using vMA, CLI and PowerCLI.

Question No : 11 - (Topic 1)

When would a license server be configured for vCenter Server 5.x?

A. When managing ESX 3.x servers
B. When the vCenter Server Virtual Appliance (vCSA) is used
C. Within the first 60 days
D. A standalone license server is installed by default

Answer: A
Reference:http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=
displayKC&externalId=1010704

Question No : 12 - (Topic 1)

What twoAdvanced IP Allocation Schemes are available? (Choose two.)

A. Fixed
B. DHCP
C. OVF Environment
D. Transient

Answer: B,C
Reference:http://www.vmwarehub.com/Edit-vApp-settings.html

Question No : 13 - (Topic 1)

A company is planning an upgrade from vSphere 4.x to vSphere 5. They currently have
three dual CPU servers licensed for ESXi 4.1 Advanced

Each server has 256GB of RAM installed.

Their virtual machines are sized three ways.

Light. 1vCPU, 4GB RAM

Medium. 2v CPU, 8GB RAM

Heavy. 4 vCPU, 12GB RAM

The Production workload consists of.

20 Light servers

20 Medium servers

2 Heavy servers

The Development workload consists of.

10 Light servers

10 Medium servers

How will vSphere 5 licensingimpact their upgrade? (Choose two.)

A. They will need to purchase additional ESXi licenses.
B. They will be able to reduce their power consumption.
C. They will be restricted from powering on additional virtual machines.
D. A license upgrade will be needed to add vCPUs to the Heavy servers.

Answer: B,C
Reference:http://www.gabesvirtualworld.com/vsphere-5-licensing-with-vram-isn%E2%80%99t-that-bad-at-all/

Question No : 14 - (Topic 1)

What is a benefit of vCenter Linked-Mode?

A. Allows the vCenter Server Virtual Appliance (vCSA) to manage multiple sites
B. Pools vRAM entitlement
C. Increases vCenter security
D. Increases vCenter reliability

Answer: B
Reference:http://pubs.vmware.com/vsphere-

50/index.jsp?topic=%2Fcom.vmware.vsphere.vcenterhost.doc_50%2FGUID-EC40636E-0DD4-4A17-B163-5CFBDC31666C.html

Question No : 15 - (Topic 1)

What virtual machine action listed below can be performed on a template?

A. Power on
B. Clone
C. Edit Settings
D. Migrate

Answer: B

Reference:http://robertparten.com/vmware-difference-between-clone-and-template/

Question No : 16 - (Topic 1)

Which functions can be performed with the Plug-in Manager? (Choose two.)

A. Enable an installed plug-in
B. Remove permissions for a plug-in
C. View the status of installed plug-ins
D. Uninstall a plug-in

Answer: A,C

Reference:http://www.kumatech.ca/download/docs/110_6081-EN_R3_HIT_VE_Installation_Guide_web.pdf(page 13)

Question No : 17 - (Topic 1)

An administrator plans to deploy ESXi 5.x, but does not want to use CD or DVD media.

What are two alternate ways to provide the ESXi 5.x installation script to the host? (Choose two.)

A. PXE
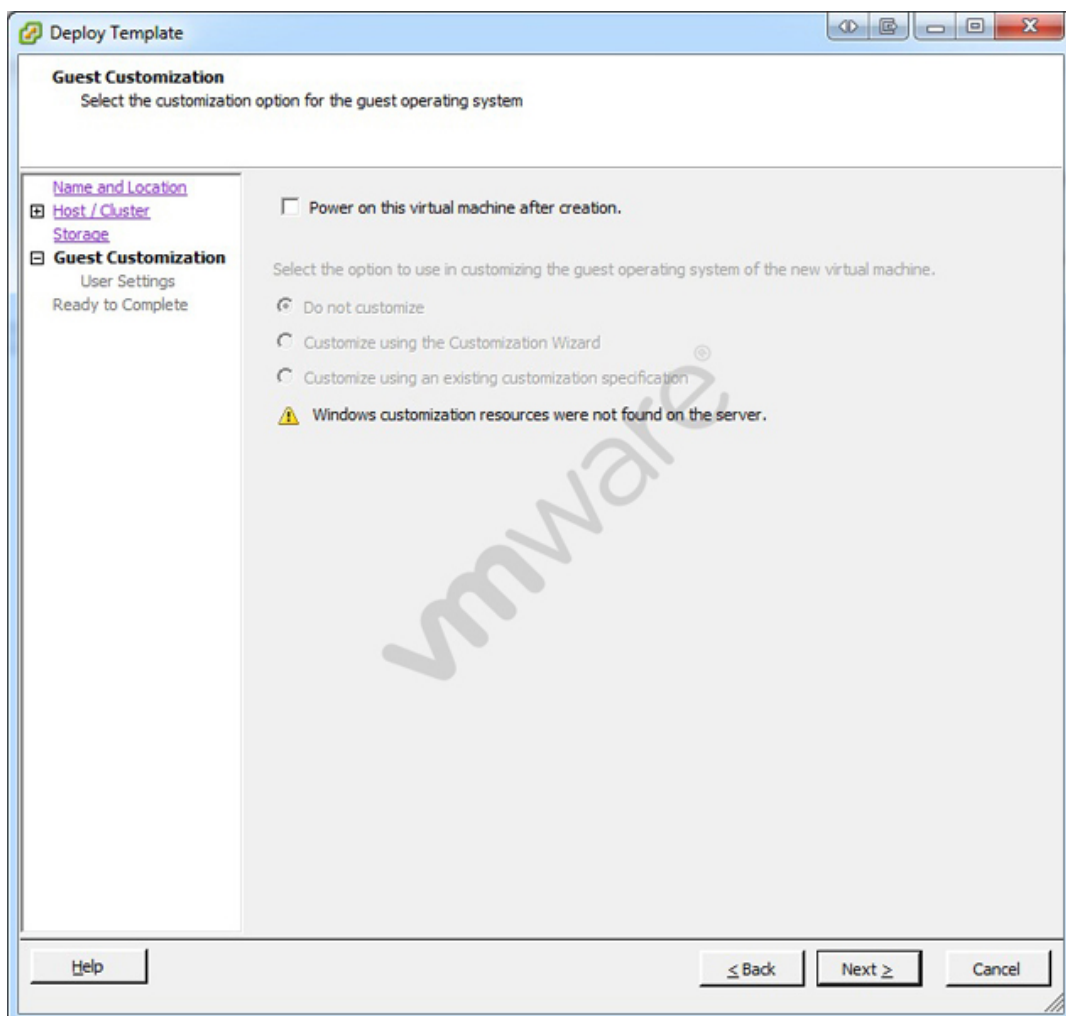**B.** FTP
C. HTTP
D. IPMI

Answer: B,C

Explanation:

ESXi 5.x allows you to use FTP and HTTP to provide installations script to the host if you don't want to use DVD or other media.

Question No : 18 - (Topic 1)

Click the Exhibit button.

An administrator has implemented a new vSphere 5 environment and is deploying their first Windows 2008 R2 template. When running the Deploy Template wizard, the error shown in the exhibit appears.

What can be done tocorrect the problem?

A. Select the correct guest OS setting for the virtual machine.
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 Syspreptool to the appropriate vCenter Server directory.

Answer: D

Explanation: http://communities.vmware.com/thread/45830

See the table at:

http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1005593

Question No : 19 - (Topic 1)

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

A. A VMware Tools upgrade on a Fault Tolerant machine with automatic snapshots.
B. Upgrading and patching multiple ESXi hosts simultaneously in a selected cluster.
C. Upgrading an ESX 4.1 host to ESXi 5.x with a sufficient boot partition.
D. AnESXi 5.x host update with automatically deleted snapshots.

Answer: C
Reference:http://www.vmadmin.co.uk/vmware/35-esxserver/283-vsphere4to5migrateesx4toesxi5

Question No : 20 - (Topic 1)

Which three tasks can be selected from the home page of an ESXi 5.x host? (Choose three.)

A. Browse objects managed by the host
B. Browse NFS mounts for this host
C. Download VMware vCenter or the vSphere client from vmware.com
D. Shutdown or restart the host
E. Download the PowerCLI installer

Answer: A,B,C

Explanation:

PowerCLI is an extension, which builds upon Windows Powershell and can be downloaded fromwww.vmware.com/go/powercli. vSphere Remote CLI is a separate application which can be downloaded in Windows, 32-Bit Linux or 64-Bit Linux formats from https://my.vmware.com/web/vmware/details/vcli40/ZCV0YmRkJSpidHdw

So from the options given you can Download VMware vCenter or the vSphere client, browse objects mounted by this host, and browse datastores (which could be Network File System (NFS) mounted).

Question No : 21 - (Topic 1)

If you create a custom role and do not assign privileges what system-defined privileges are added? (Choose two.)

A. System.Anonymous
B. System.Read
C. System.Write
D. System.Administrator

Answer: A,B

Reference:http://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc%2FGUID-93B962A7-93FA-4E96-B68F-AE66D3D6C663.html

Question No : 22 - (Topic 1)

An administrator is performing upgrades to ESXi 5.x 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 hosts can be upgraded, butrequire an upgrade to 4.x before 5.x.
C. A direct, in-place upgrade can be performed only on ESX 4.5 and later hosts.
D. A direct, in-place upgrade can be performed only on ESX 3.5 and later hosts.

Answer: B

Explanation:

You must upgrade version 3.x ESXand ESXi hosts to ESX or ESXi version 4.x before you can upgrade them to ESXi 5.1.x. See the vSphere 4.x upgrade documentation.

Alternatively, you might find it simpler and more cost effective to do a fresh installation of ESXi 5.1.x.

Question No : 23 - (Topic 1)

What differentiates a private cloud from a vSphere Infrastructure?

A. A private cloud requires pooled resources including storage and networking.
B. vSphere Infrastructure assumes a secure location for the workloads.
C. vSphere Infrastructure allowsconsumption of resources over open standards.
D. A private cloud assumes the consumer will maintain their portion of the infrastructure.

Answer: A

Explanation:

Since private cloud requires pooled resources which includes storage and networking, it is different from vSphere infrastructure that doesn't require pooled resources.

Question No : 24 - (Topic 1)

What are three reasons for deploying vCenter Server in a physical machine? (Choose three.)

A. vCenter Server can be deployed as physical machine to support a VSAconfiguration.
B. vCenter Server can be deployed as a physical machine to ensure it is not susceptible to vSphere outages.
C. vCenter Server can be deployed as a physical machine to improve VMware Data Recovery performance.
D. vCenter Server can be deployed as a physical machine to improve vMotion performance.
E. vCenter Server can be deployed as a physical machine to ensure it does not contend for resources.

Answer: A,B,E

Explanation:

VCenter server can be deployed as a physical machine so that VSA configuration can be supported and ensures it is not susceptible to vsphere outages. It can also be deployed as physical machine to make sure it does not content for virtual resources.

Question No : 25 - (Topic 1)

Which two VMware software components can be updated byUpdate Manager? (Choose two.)

A. ESX 3.5
B. Virtual Appliances
C. vCenter Server
D. Guest OS

Answer: A,B

Reference:http://www.vmware.com/support/vsphere5/doc/vsphere-update-manager-51-release-notes.html

Question No : 26 - (Topic 1)

Which two vCenter plug-ins are installed with a default vSphere Client installation? (Choose two.)

A. vCenter Hardware Status
B. VMware ESXi Service Status
C. VMware vSphereUpdate Manager
D. VMware vCenter Storage Monitoring Service

Answer: A,D

Reference:http://pubs.vmware.com/vsphere-51/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-51-host-management-guide.pdf(page 19, first para)

Question No : 27　- (Topic 1)

What are two reasons why a company would choose to use ESXi 5.x instead of using VMware Workstation 8? (Choose two.)

A. The company needs to be able to assign existing physical disks to virtual machines.
B. The company needs remote management of virtual machines
C. The company needs support for virtual machines with up to sixteen vCPUs
D. The companywants the lowest overhead possible for the virtual infrastructure.

Answer: C,D

Explanation:

ESXi 5.x is diverse and supports remote management of virtual machines whereas VMware workstation 8 is end-user software that provides virtualization. Moreover,the overhead costs of operating a workstation 8 are far greater than operating a server with ESXi 5.x.

Question No : 28　- (Topic 1)

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

A. Number of CPUs
B. Datastore to install on
C. Linked-mode
D. Name of the vCenter server

Answer: B,D
Reference:http://pubs.vmware.com/vsphere-
51/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc%2FGUID-25FCBA87-5D2F-
4CB6-85D7-88899B4AC174.html

Question No : 29 - (Topic 1)

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

A. VMware vCenter Syslog Collector
B. VMware vCenter License Server
C. VMware vSphere Authentication Proxy
D. VMware vCenter Host Update Utility
E. VMware vSphere Auto Deploy

Answer: A,C,E
Reference:http://pubs.vmware.com/vsphere-
50/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc_50%2FGUID-78933728-7F02-
43AF-ABD8-0BDCE10418A6.html(see optional components)

Question No : 30 - (Topic 1)

What are two prerequisites for installing the vCenterServer application? (Choose two.)

A. The system vCenter Server is installed on must be a physical machine.
B. A valid vSphere vCenter license must be obtained before installation.
C. vCenter must be in the same network as the hosts if supporting vSphere Storage
Appliance Cluster.
D. The system vCenter Server is installed on cannot be a domain controller.

Answer: C,D

Reference:https://pubs.vmware.com/vsphere-4-esx-
vcenter/index.jsp?topic=/com.vmware.vsphere.installclassic.doc_41/common/install/c_vc_p
re.html

Question No : 31 - (Topic 1)

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

A. An administrator wants to migrate running virtual machines between vCenter Server
instances.
B. An administrator wants to increase the vRAM entitlement pool.
C. An administrator wants to manage a virtual server environment and a View environment
from the same pane of glass.
D. An administrator wants to search all inventory objects across multiple vCenter Server
Virtual Appliance (vCSA) instances from one vSphere Client

Answer: B,C

Reference:http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-
esxi-vcenter-server-50-host-management-guide.pdf(page 53)

Question No : 32 - (Topic 1)

An administrator is settingup vSphere Auto Deploy to deploy 25 ESXi 5.x hosts using the
vCenter Server Virtual Appliance (vCSA). What would be considered best practices for
Auto Deploy? (Choose three.)

A. Enable vSphere HA on the cluster.
B. Protect the vCenter server with Fault Tolerance.
C. Install the Auto Deploy service on the VCSA.
D. Include the vmware-fdm VIB in the image profile.
E. Use PowerCLI to write a rule that assigns a custom image profile to the target hosts.

Answer: A,D,E

Reference:http://pubs.vmware.com/vsphere-

50/index.jsp?topic=%2Fcom.vmware.vsphere.install.doc_50%2FGUID-980D9E38-633E-4557-9144-AC422FA239C5.html

Question No : 33 - (Topic 1)

Which tool defines the Image Profiles used with Auto Deploy?

A. The vSphere PowerCLI add-deployrule cmdlet
B. The vSphere PowerCLI new-deployrule cmdlet
C. The vSphere CLI add-deployrule command
D. The vSphere CLInew-deployrule command

Answer: B
Reference:http://www.vmware.com/files/pdf/techpaper/Whats-New-VMware-vSphere-50-Platform-Technical-Whitepaper.pdf(page 9, auto deploy rules engine)

Question No : 34 - (Topic 1)

An administrator plans to use an upgrade script to upgrade a number of ESXi 5.x hosts.

What options are available for the kickstart file? (Choose two.)

A. dryrun - Parse and check script but does not install
B. overwritevmfs - permits overwriting of existing VMFS volumes
C. vcenter - specifies vCenter Server
D. autodeploy - defines autodeploy options

Answer: A,B
Reference:http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2004582

Question No : 35 - (Topic 1)

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 application.

What should be included in the upgrade plan?

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

Answer: B

Explanation: Page 131 of vsphere-update-manager-50-install-administration-guide.pdf

NOTE
Update Manager 5.0 does not support virtual machine patch baselines.
If a host is connected to vCenter Server by using an IPv6 address, you cannot scan and remediate virtual machines and virtual appliances that run on the host.
Remediation of VMware vCenter Server Appliance is not supported. For more information about upgrading the virtual appliance, see the vCenter Server upgrade documentation.

Page 56 of vsphere-esxi-vcenter-server-50-upgrade-guide.pdf

Upgrade the VMware vCenter Server Appliance
Because the VMware vCenter Server Appliance was first released with vSphere 5.0, upgrading the appliance is not required until a future release. This information helps you plan for futureupgrades.
Procedure
1. Deploy the new version of the vCenter Server Appliance. The new appliance has a default network configuration, and the vCenter Server service is unconfigured and disabled.
2. Connect to both the old and new appliances in separate browser windows.
3. In the Upgrade tab of the new appliance, select destination for the appliance role, and click Set role.
4. In the Upgrade tab of the old appliance, select source for the appliance role, and click Set role.
5. In each appliance, click Establish Trust. The local appliance key appears.
6. In the new appliance, copy the local appliance key.

7. Paste the local appliance key into the Remote appliance key field of the old appliance.

8. Click Import remote key in the old appliance.

9. In the old appliance, copy the local appliance key.

10. Paste the local appliance key into the Remote appliance key field of the new appliance.

11. Click Import remote key in the new appliance.

12. In the new appliance, click Import, and click Start import.

The newappliance shuts down the old appliance and assumes the network identity of the old appliance. This process can take several minutes. When the import is complete, the new vCenter Server Appliance starts.

Question No : 36 - (Topic 1)

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

A. The SSH configuration in /etc/ssh
B. The host configuration in /etc/vmware/esx.conf
C. The NFS configuration in /etc/fstab
D. The services information in /etc/services
E. The licensing information in /etc/licenses/license.conf

Answer: A,B,C

Explanation:

http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC &externalId=2005054

Files Migrated During Migration or Upgrade from ESX/ESXi 4.x to ESXi 5.0

This table provides the list of files migrated during upgrade from ESX/ESXi 4.x to ESXi 5.0:
FileNotes
/etc/sfcb/sfcb.cfg
CIM "indication"conf files
/etc/ntp.conf
/etc/ntp.drift
/etc/ntp.keys
/etc/syslog.confMigrated for ESXi, not migrated for ESX.
/etc/security/access.confNeeded for PAM configurations.

/etc/security/login.mapNo comment.

/etc/sysconfig/networkService ConsoleNICs areconverted to VMkernel NICs.

/etc/sysconfig/keyboardAny entries not supported will default to English.

***/etc/sshOpenSSH is now included in ESXi 5.0.

/etc/nsswitch.confUsed generically for various configurations, most helpful for Active
Directory authentication.

/etc/krb.confNeeded for Likewise to have Active Directory support.

/etc/krb.realmsNeeded for Likewise to have Active Directory support.

/etc/krb5.confNeeded for Likewise to have Active Directory support.

/etc/krb5.aclNeeded for Likewise to have Active Directory support.

/etc/krb5.keytabNeeded for Likewise to have Active Directory support.

/etc/krb5.logNeeded for Likewise to have Active Directory support.

/etc/krb5.mkeyNeeded for Likewise to have Active Directory support.

/etc/pam.d/* (Partial)

Needed for authentication and authorization.

Note: Custom edits made to settings in /etc/pam.d/system-auth in ESX 4.x are reset to the
default values by the upgrade to ESXi 5.0. To maintain the custom values, reset them
manually after the upgrade.

/etc/snmp/snmpd.confMigrated to /etc/vmware/snmp.xml.

etc/motdA note is appended saying the system was upgraded to ESX 5.x.

/etc/likewise/*Used for Likewise configurations.

/etc/vmware/vmkiscsid/*

***/etc/vmware/esx.conf

/etc/vmware/hostd/*

/etc/vmware/vmauth/authentication.confUsed for Likewise configurations

/etc/vmware/vmauth/provider.xmlUsed for Likewise configurations

/etc/hosts

/etc/resolv.conf

***/etc/fstab (Partial)Only NFS entries will be migrated to ESXi.

/etc/passwd (Partial)Only the root user password will be saved, if possible.

/etc/shadowOnly the root user password will be saved, if possible

Question No : 37 - (Topic 1)

An administrator is upgrading an ESXi 3.5 host to ESXi 5.x with an intermediate upgrade to
4.0 using Update Manager.The host has a single Intel Xeon processor, 4GB of RAM, and a
VMFS datastore on a 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 upgrade.
D. Update Manager cannot upgrade a previously upgraded host.

Answer: C
Reference:

http://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.upgrade.doc_50%2FGUID-AA106086-E10D-456E-B0B9-340D3D1462C3.html

Question No : 38 - (Topic 1)

An administrator is performing an upgrade on an ESXi host.

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

A. Using the vSphere Client connected to vCenter, right-click the host and choose Host Backup.
B. Log into a vMA appliance and run vicfg-cfgbackup to save the ESXi host configuration.
C. Using the vSphere Client connected directly to the host, right-click the host and choose Host Backup.
D. Use PowerCLI to run the host-backup cmdlet to save the ESXi host configuration.
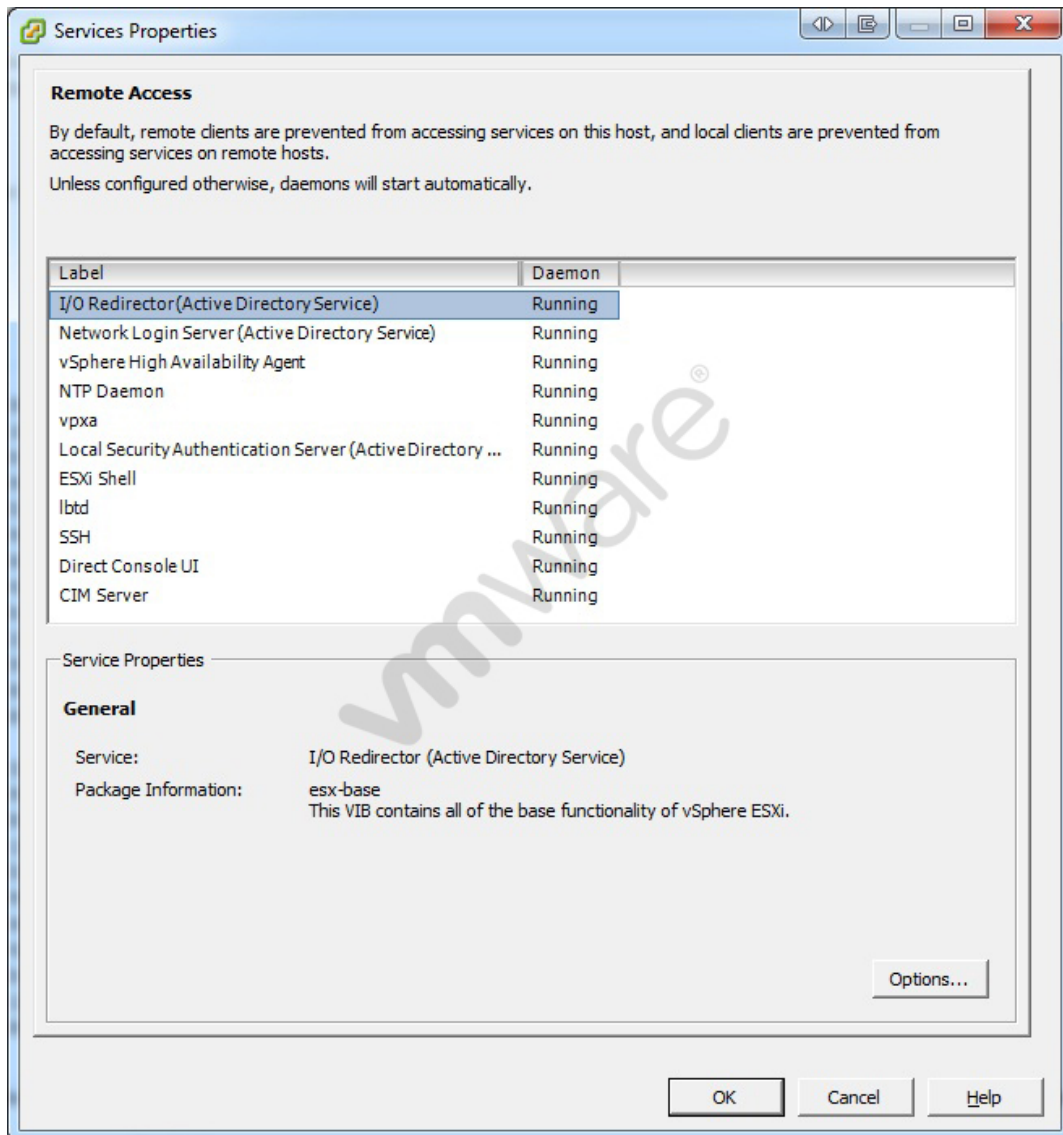
Answer: B
Reference:http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-50-command-line-interface-solutions-and-examples-guide.pdf(page 22)

Question No : 39 - (Topic 1)

Click the Exhibit button.

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

Which three services shownin the exhibit are configured to run by default in a completed vSphere installation? (Choose three.)

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

Answer: A,D,E

Explanation:

Since Security hardening is required, network login server, direct console UI and vpxa will

be run by default.

Question No : 40 - (Topic 1)

For security reasons, an administrator removes a user from the Active Directory domain used by all ESXi hosts for authentication. At the time the user is removed they are actively logged into an ESXi 5.x host through the vSphere Client.

What is true regarding this scenario?

A. The user immediately loses connectivity to and permissions on the host.
B. The user retains permissions and connectivity to the host for up to 24 hours.
C. The user retains permissions on the host until the host is rebooted.
D. The user retains permissions on the object until the next time the user logs in to vCenter Server.

Answer: C

Explanation: You can remove a user from the host.
Userswho are logged in and are removed from the domain keep their host permissions until you restart the host.

To remove users from vCenter Server, you must remove them from the domain or Active Directory users list.
Users who are logged in and are removed from the domain keep their vSphere permissions until the next validation period. The default is every 24 hours.

Question No : 41 - (Topic 1)

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

B. Configure a unique root level account for each administrator using the vSphere Client

C. Configure user accounts in a host profile, then apply the host profile to the ESXi hosts

D. Configure Active Directory group ESX Admins with each administrator's AD account

Answer: A,D

Reference:http://pubs.vmware.com/vsphere-
50/topic/com.vmware.wssdk.pg.doc_50/PG_Ch6_Authenticate_Authorize.8.3.html

Question No : 42 - (Topic 1)

What Windows security object is granted the vCenter Server administrator role during installation?

A. Domain Admins

B. Administrator

C. Administrators

D. ESX Admins

Answer: C

Reference:http://pubs.vmware.com/vsphere-4-esxi-installable-
vcenter/index.jsp?topic=/com.vmware.vsphere.esxi_server_config.doc_41/esx_server_conf
ig/authentication_and_user_management/c_administrator.html

Question No : 43 - (Topic 1)

Which component is the metering tool for vCloud administration?

A. VMware vCenter Chargeback

B. VMware vCloud ServiceManager

C. VMware vCloud Request Manager

D. VMware vCloud Director

Answer: A

Explanation:

VMware® vCenter™ Chargeback Manager™ provides the metering capability to measure, analyze, and report on utilization and costs associated with VMware®-based cloudinfrastructures. It offers the ability to configure and associate various cost models with vCloud Director entities. The cost transparency enabled by vCenter Chargeback Manager allows cloud providers to validate and adjust financial models based on resource consumption.

Question No : 44 - (Topic 1)

An existing vSphere 4 environment will be upgraded to vSphere 5.x. The current implementation utilizes ESXi 4.1 and the new implementation will use ESXi 5.x.

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

A. VMware ESXi 5.x provides a host-based firewall.
B. VMware ESXi 5.x can boot from additional local sources such as a USB drive.
C. VMware ESXi 5.x can be managed from a web browser.
D. VMware ESXi 5.x can support virtual machines with larger hard drive configurations.

Answer: B,D

Explanation:

Of many features, ESXi5.x can boot from various local sources like a USB drive and it can support virtual machines with large hard drive configurations.

Question No : 45 - (Topic 1)

Which VMware solution allows for the automated discovery and mapping of applications running over the VM infrastructure?

A. VMware vCloud Director
B. VMware vCenter Infrastructure Navigator
C. VMware Service Manager

D. VMware vSphere 5

Answer: B

rence:http://www.vmware.com/products/datacenter-virtualization/vcenter-infrastructure-navigator/features.html

Question No : 46 - (Topic 1)

What are two reasons to upgrade a virtual machine's hardware version? (Choose two.)

A. Migrate a virtual machine from a VMFS3 datastore to a VMFS5 datastore.
B. Add more than 4 NICs to a virtual machine.
C. Add more than 8 vCPUs to a virtual machine.
D. Increase the vRAM of the virtual machine to 512GB.

Answer: C,D

Explanation:

There are many reasons to upgrade. A couple of them are that you want to add more than 8 vCPUs to a virtual machine or you want to increase the vRAM of a virtual machines to 512 GB.

Question No : 47 - (Topic 1)

The Typical option is selected while running the New Virtual Machine Wizard in the vSphere Client. Which three specific configuration options are included during virtual machine creation? (Choose three.)

A. Datastore location
B. Virtual machine version
C. Number of vCPUs
D. Storage DRS
E. Virtual disk size

Answer: A,C,E

Reference:http://pubs.vmware.com/vsphere-50/topic/com.vmware.ICbase/PDF/vsphere-

esxi-vcenter-server-50-virtual-machine-admin-guide.pdf

Question No : 48 - (Topic 1)

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

What user name and password areused to log in to the administration 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:

Default user name and password is root and vmware respectively. This is a norm with VMware since they are easy to remember. However,it is advised to change username and password once you are done with installing the vcenter server.

Question No : 49 - (Topic 1)

Which scenario requires an additional database server when adding vSphere Update Manager 5 to an environment?

A. vCenter Appliance withan external Oracle database
B. vCenter Application with the default database
C. vCenter Application with an external SQL 2008 Enterprise database
D. vCenter Appliance with an external DB2 database

Answer: D

Reference:http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd= displayKC&externalId=2005084

Question No : 50 - (Topic 1)

Which are three of the steps recalled patches automatically go through in vSphere Update Manager? (Choose three.)

A. Delete recalled patch binary from repository
B. Remediate any host with recalled patches
C. Generate a notification in the notification tab
D. Place hosts with recalled patches inmaintenance mode
E. Flag recalled patch in database

Answer: A,C,E
Reference:http://www.dianaromeo.info/virtualizacion/vmware/vsphere/update-manager

Question No : 51 - (Topic 1)

What is the default VFAT scratch partition size for ESXi 5.x?

A. 4GB
B. 600MB
C. 544MB
D. None

Answer: A
Reference:http://thinkcloud.nl/2011/06/29/esxi-scratch-partition/

Question No : 52 - (Topic 1)

The VMware vCenter Server Appliance offers many features of the Windows application version. Which of the following features is only available on the Windows application version ofvCenter?

A. Host Profiles
B. Template and clone customization
C. Active Directory authentication
D. Linked Mode

Answer: D

Explanation:

Linked mode is available in Windows Application version of vCenter only in vcenter server 4.x. It is not available invCenter Server 5.x

Topic 2, Plan and Configure vSphere Networking

Question No : 53 - (Topic 2)

An iSCSI array is being added to a vSphere 5.x implementation. An administrator wants to verify that all IP storage VMkernel interfaces are configured for jumbo frames.

What are two methods to verify this configuration? (Choose two.)

A. Run the esxcli network ip interface list command
B. Run the esxcfg-vswif -l command
C. Ensure that the Enable Jumbo Frames box is checked in the VMkernel interface properties in the vSphere client
D. Ensure that the MTU size is set correctly in the VMkernel interface properties in the vSphere client

Answer: A,D

Explanation:

You have to run esxcli network ip interface list command to list all the IPs. Then you need to make sure that MTUsize is correctly set in the VMkernel interface properties in the vsphere client.

Question No : 54 - (Topic 2)

An administrator has configured a vSphere Distributed Switch to send all network traffic to a collector virtual machine for analysis. However, after checking the collector virtual machine several hours later the administrator finds that no data has been collected. vSphere 5.x has been deployed in the datacenter.

Which two items below could be causing this issue? (Choose two.)

A. The source virtual machine does not have Promiscuous Mode enabled.
B. The source and target virtual machines are not both the same on the vSphere Distributed Switch.
C. The port group or distributed does not have Promiscuous Mode enabled.
D. The port group or distributed port doesnot have NetFlow enabled.

Answer: B,D

Explanation:

Requirements for a collector virtual machine to analyze traffic from a vSphere Distributed Switch: 1) The source and target virtual machines must both be on a vNetwork Switch, but can be on any vDS datacenter. 2) The port group on distributed port must have NetFlow enabled.

Two methods to migrate a virtual machine from a vSphere Standard Switch (VSS) to a vSphere Distributed Switch (VDS): 1) Migrate the port group containing the virtual machine from a vNetwork Standard Switch using the Migrate Virtual machine networking option. 2) Edit the Network Adapater settings for the virtual machine and select a dvPort group from the list.

Question No : 55 - (Topic 2)

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 a Windows 2008 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

Reference:http://www.vmguru.nl/wordpress/2012/03/set-timeout-on-windows-guest-os-to-avoid-blue-screenserrors/(3rdpara)

Question No : 56 - (Topic 2)

Which resource management technique can be used to relieve a network bottleneck caused by a virtual machine with occasional high outbound network activity?

A. Convert the switch from a vSphere Standard Switch to a vSphere Distributed Switch.
B. Create a new portgroup for the virtual machine and enable traffic shaping.
C. Apply traffic shaping to the other virtual machines in the same port group.
D. Apply traffic shaping to the virtual machine with high activity.

Answer: B

ce:http://www.vmware.com/files/pdf/vsphere-vnetwork-ds-migration-configuration-wp.pdf

Question No : 57 - (Topic 2)

Which two statements are true regarding vSphere standard switches? (Choose two.)

A. Beaconing requires at least three uplinks to be considered useful.
B. Virtual machines on different vSwitches require the vSwitches to share an uplink to communicate.
C. vSphere virtual switches require at least oneuplink adapter.
D. Setting the number of ports to the maximum on a vSwitch will exhaust the total ports on a host.

Answer: A,D

Reference:http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1005577

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

Question No : 58 - (Topic 2)

Which types oftraffic can a VMkernel port be enabled to carry on a ESXi 5.x host? (Choose three.)

A. NFS
B. Fault Tolerant
C. Management
D. iSCSI
E. vMotion

Answer: B,C,E
Reference:http://www.epubbud.com/read.php?g=8MVD69ZN&tocp=15

Question No : 59 - (Topic 2)

Networking policies for a vSphere Standard Switch, such as traffic shaping and security, can be overridden on which vSphere elements?

A. On the virtual machine
B. On the physical switch
C. On the physical network interface
D. On the port group

Answer: D
Reference:http://pubs.vmware.com/vsphere-51/index.jsp?topic=%2Fcom.vmware.vsphere.networking.doc%2FGUID-3A9D9911-3632-4B81-9D2E-A2F9F2D01180.html

Question No : 60 - (Topic 2)

Which is an important benefit provided by VLANs?

A. Reduced hardware requirements
B. Increased broadcast traffic
C. Fault tolerance
D. Increased security on a network segment

Answer: A
Explanation:
VLANs are virtual local area networks. They significantly reduce costs by saving money that can be spent on the purchase of switches, hubs and routers.

Question No : 61 - (Topic 2)

When deploying an OVF template, the resulting virtual disk is created in what file format?

A. OVF
B. VMDK
C. VMX
D. VSWP

Answer: B
Reference:http://www.vmware.com/technical-resources/virtualization-topics/virtual-appliances/ovf.html

Question No : 62 - (Topic 2)

Assuming that VLANs are not configured, what is true about traffic from a virtual machine connected to a port group on a vSphere Standard Switchwith no uplinks?

A. The virtual switch will drop the packets if no uplink is present.
B. Virtual machines on any vSphere Standard Switch on the same ESXi host can receive the traffic.
C. Virtual machines in any port group on the virtual switch canmonitor all of the traffic.
D. vMotion will not migrate any Virtual machines connected to a port group on the virtual switch.

Answer: D
Reference:http://www.vmware.com/pdf/vsphere4/r40/vsp_40_esx_server_config.pdf(page 22, bulleted # 9)

Question No : 63 - (Topic 2)

An administrator is enabling Network I/O Control (NIOC) on a vSphere Distributed Switch.

Which types of network traffic can be prioritized with NIOC by default?(Choose three.)

A. FCP Traffic
B. NFS Traffic
C. Virtual Machine Traffic By Virtual Machine
D. iSCSI Traffic
E. vSphere Replication (VR) Traffic

Answer: B,D,E
Reference:http://www.vmware.com/products/datacenter-virtualization/vsphere/network-io-control.html#techinical

Question No : 64 - (Topic 2)

When an explicit failover order has 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 list
D. The uplink with the shortest route

Answer: C
Explanation:
The next uplink is used logically when a failover event occurs. The next available uplink on the list will be the new uplink.

Question No : 65 - (Topic 2)

When PSA is coordinating the VMware NMP and any installed third-party MPPs, the MPPs perform which task?

A. Implement logical device bandwidth sharing
B. Handle I/O queueing to the logical devices
C. Provide logical device and physical path I/O statistics
D. Manage physical path claiming and unclaiming

Answer: D

Reference:http://pubs.vmware.com/vsphere-4-esxi-installable-
vcenter/index.jsp?topic=/com.vmware.vsphere.esxi_server_config.doc_41/esx_san_config/
common/c_vmware_pluggable_storage_architecture.html

Question No : 66 - (Topic 2)

When creating a dvPort group, which port binding option assigns a port to a virtual machine whenthe virtual machine is first powered on?

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

Answer: D

Reference:http://simongreaves.co.uk/blog/distributed-virtual-switch-guide(see port
bindings, dynamic)

Question No : 67 - (Topic 2)

In vSphere, a bound physical NIC can be configured to transmit and receive jumbo frames.

What is the default maximum transmission unit (MTU) in vSphere?

A. 1500
B. 5500
C. 9000
D. 9500

Answer: A
Reference:http://www.experts-exchange.com/Software/VMWare/A_9132-HOW-TO-Enable-Jumbo-Frames-on-a-VMware-vSphere-Hypervisor-ESXi-5-0-host-server-using-the-VMware-vSphere-Client.html(search for default MTU (Frame) size)

Question No : 68 - (Topic 2)

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

A. On a vSphere Distributed Switch dvPort for inbound and/or outbound traffic
B. On a vSphere Distributed Switch for inbound and/or outbound traffic
C. On a vSphere Standard Switch port group or the entire vSwitch for inbound traffic
D. On a vSphere Standard Switch port group or the entire vSwitch for inbound and outbound traffic

Answer: A,B
Reference:http://pubs.vmware.com/vsphere-4-esxi-installable-vcenter/topic/com.vmware.vsphere.esxi_server_config.doc_41/esx_server_config/advance d_networking/t_edit_dvport_policy_traffic_shaping.html

Question No : 69 - (Topic 2)

What would be a valid reason to enable traffic shaping?

A. Limiting the bandwidth of a FTPserver

B. Restricting the load on a IDS server

C. Limiting the bandwidth used by an independent hardware iSCSI adapter

D. Improving the performance of a CPU-intensive application server

Answer: A

Explanation:

By limiting the bandwidth of a FTP server, youcan enable traffic shaping.

Question No : 70 - (Topic 2)

A vSphere 5.x implementation contains two ESXi hosts, ESXi01and ESXi02. There is a virtual machine "VM21" connected to the Production port group on ESXi01.

ESXi01 has the following switch configuration.

vSwitch0, single uplink to 10.1.20.0/24

Production port group

VMkernel port for vMotion

VMKernel port for management

vSwitch1, single uplink to 10.1.40.0/24

Engineering port group

VMKernel port for NFS storage

ESXi02 has the following switch configuration.

vSwitch0, single uplink to 10.1.20.0/24

Engineering port group

VMkernel port for vMotion

VMKernel port for management

vSwitch1, single uplink to 10.1.40.0/24

Production port group

VMKernel port for NFS storage

Which two statements are true about thisconfiguration? (Choose two.)

A. vMotion is not available between the two hosts
B. If VM21 is migrated to ESXi02 it will not be available on the network
C. The virtual machine can be vMotion migrated to the target host.
D. Broadcasts from the Productionport group will not reach the Engineering port group.

Answer: B,D
Explanation:
If VM21 is migrated to ESXi 02, then according to the information provided, it will not be available on the network. Likewise, broadcasts from production port group will not reach engineering port group.

Question No : 71 - (Topic 2)

Which network settings are only available with vSphere Distributed Switches?

A. Jumbo Frames
B. PVLAN
C. Load Balancing
D. Promiscuous Mode

Answer: B
Reference:http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=
displayKC&externalId=1010691

Question No : 72 - (Topic 2)

When wouldan administrator configure the Explicit Failover option for a portgroup created on a virtual switch with multiple uplinks?

A. To manually configure load balancing for the portgroup
B. To share uplinks between vSwitches
C. When configuring iSCSI Software Initiator multipathing
D. If the physical switch does not support etherchannel or 802.3ad

Answer: C
Reference:http://www.epubbud.com/read.php?g=8MVD69ZN&tocp=15(see the paragraphbelow figure 5.2)

Question No : 73 - (Topic 2)

Which two features secure the VMkernel? (Choose two.)

A. Memory Encryption
B. Hardware assist virtualization
C. Kernel module integrity
D. Trusted Platform Module (TPM)

Answer: C,D
Reference:http://searchvmware.techtarget.com/tip/VMware-ESXi-security-Protecting-VMs-VMkernel-and-the-network(see 'Guard the VMkernel')

Question No : 74 - (Topic 2)

A vSphere Standard Switch has been configured for IP-based load balancing using two uplinks. A new uplink is added to the vSwitch.

What is the status of the uplink by default?

A. The uplink is placed instandby mode until it is added to the active NIC team.
B. The uplink is marked as active but does not participate in the active NIC team until assigned to a port group.
C. The uplink is marked as active, but cannot be used by the active NIC team until it is added to the existing 802.3ad group on the physical switch.
D. The uplink is marked as unused until it is added to the active NIC team.

Answer: C

Explanation:

The new uplink will be marked as active but it cannot use active NIC team until it is added toan existing 802.3ad group on the physical switch.

Reference:http://h20000.www2.hp.com/bc/docs/support/SupportManual/c01990371/c0199
0371.pdf(page 26onwards)

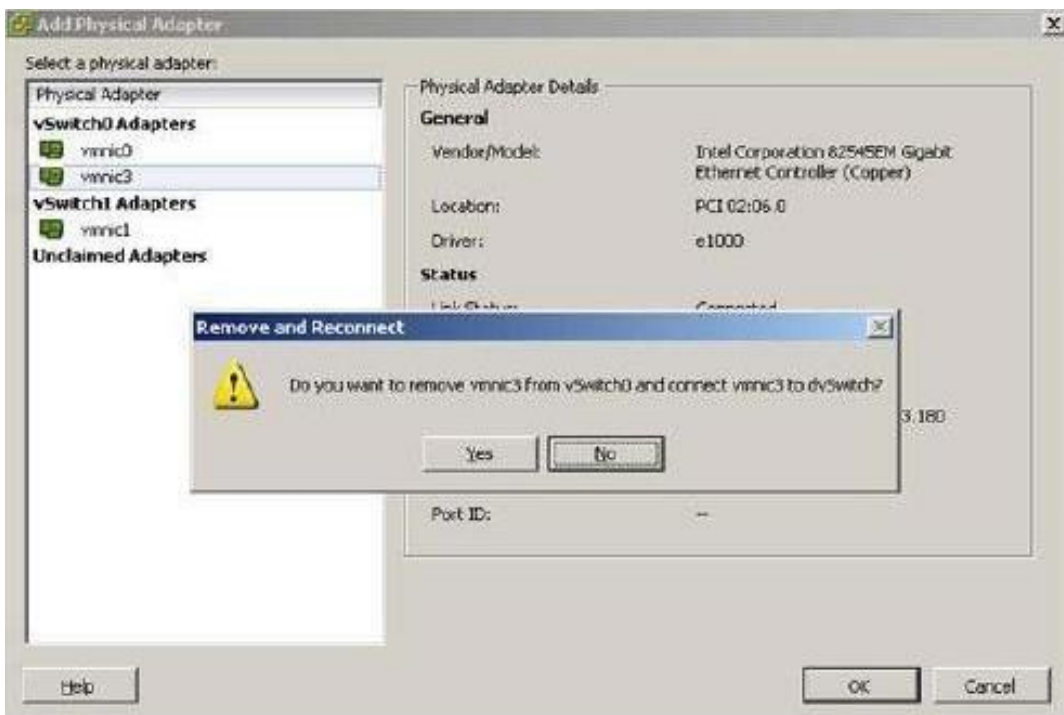**Question No : 75 - (Topic 2)**

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. Multiple 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:

VMware Virtual Networking Concepts, page 6. Some virtual switches should not connect to a physical network and thus have no uplink port. If you attempt to assign an uplink port, (previously assigned to a switch), to a second switch, the uplink will be disconnected from the first switch before being connected to the second.

Question No : 76 - (Topic 2)

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 portgroup labeled Management and aportgroup labeled vMotion.

2. The Management portgroup contains a vmkernel port tagged for management traffic.

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

4. vSwitch0 on ESXi01 has a single uplink attached to the10.1.20.0/24 network.

5. vSwitch0 on ESXi02 has a single uplink attached to the 10.1.20.0/24 network.

6. Each host has a vSwitch1 with a Production portgroup used by virtual machine traffic.

7. Each vSwitch1 has an uplink attached to the 10.1.40.0/24 network.

What is true about migrating VM21 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 wouldbe supported if the storage device supports VAAI.
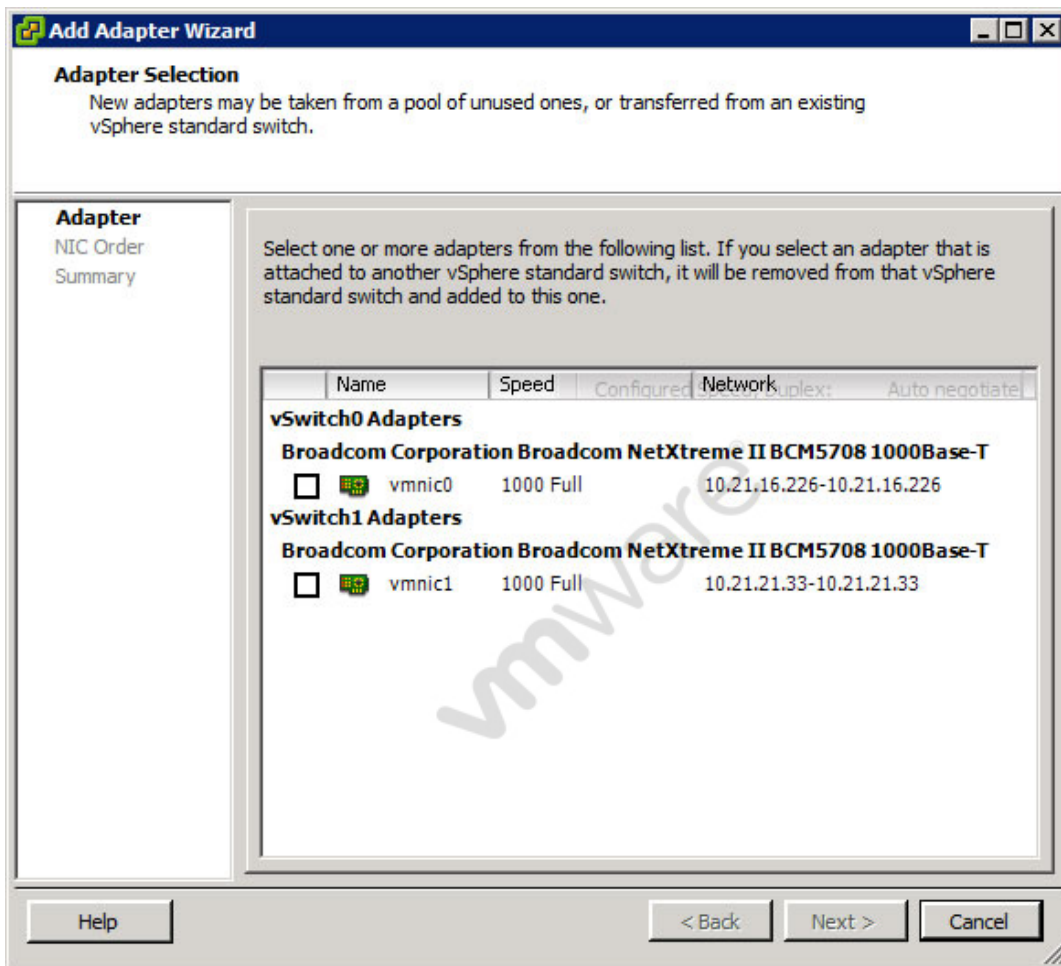
Answer: A

Explanation:

As per the configuration shown in the question, vmotion will be supported without any problem.

Question No : 77 - (Topic 2)

Click the Exhibit button.

An administrator has been tasked with adding a newly installed uplink to vSwitch1.

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

A. The server does not have available vSwitches to be assigned to this uplink.
B. The available uplinks are not compatible with astandard vSwitch.
C. The host needs a driver installed for the newly installed uplink.
D. The current uplinks cannot be attached because they are in use by other port groups.

Answer: C

Explanation: as you can see that the Next button is greyed out. This means the host needs driver installed on the newly installed uplink. Once the driver in installed, the Next button will become active.

Question No : 78 - (Topic 2)

Which settings are required for virtual machine guest tagging for VLAN 100 in a vSphere 5.x environment?

A. Port Group configured for VLAN 100, physical switch configured as a VLAN trunk
B. Port Group configured for VLAN 4095, physical switch configured as a VLAN trunk
C. Port Group configured for VLAN 100, physical switch configured for VLAN 100
D. Port Group configured for VLAN 4095, physical switch configured for VLAN 100

Answer: B

Explanation:

A VLAN ID, which restricts port group traffic to a logical Ethernet segment within the physical network, is optional. For a port group to reach port groups located on other VLANs, the VLAN ID must be set to 4095. If you use VLAN IDs, you must change the port group labels and VLAN IDs together so that the labels properly represent connectivity.

If you enter 0 or leave the option blank, the port group can see onlyuntagged (non-VLAN) traffic. If you enter 4095, the port group can see traffic on any VLAN while leaving the VLAN tags intact.

Question No : 79 - (Topic 2)

When you are configuring the NIC teaming policy for a vSwitch, what happens when the Failback option is set toYes?

A. A failed uplink will be left inactive upon recovery until another uplink fails.
B. The vswitch is notified when a failover event occurs.
C. The physical switches are notified when a failback event occurs.
D. A failed uplink is returned to activeduty immediately upon recovery.

Answer: D

Explanation: Select Yes or No to disable or enable failback.This option determines how a physical adapter is returned to active duty after recovering from a failure. If failback is set to Yes (default), the adapter isreturned to active duty immediately upon recovery, displacing the standby adapter that took over its slot, if any. If failback is set to No, a failed adapter is left inactive even after recovery until another currently active adapter fails, requiring its replacement.

Question No : 80 - (Topic 2)

Which three features are only available in the vSphere Client when using a vSphere Distributed Switch? (Choose three.)

A. Port Mirroring
B. PVLAN tagging
C. Storage I/O Control
D. Ingress Traffic Shaping
E. 802.1q VLAN Tagging

Answer: A,B,D
Reference:http://pubs.vmware.com/vsphere-51/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-51-networking-guide.pdf

Question No : 81 - (Topic 2)

What are three methods of adding virtual machine networking to a vSphere Distributed Switch? (Choose three.)

A. A portgroup can be created using the vSphere client and virtual machines can be added using theirProperties tab.
B. A portgroup can be created as part of the Migrate Virtual Machine Networking wizard before virtual machines are moved to the vDS.
C. A portgroup can be cloned from a vSphere Standard Switch, inheriting the virtual machines that were attached to the cloned portgroup.
D. A portgroup can be created using the vSphere client and virtual machines can be migrated using the Migrate Virtual Machine Networking wizard.
E. A portgroup can be created during the creation of the vDS and virtual machines can be migrated using the Migrate Virtual Machine Networking wizard.

Answer: A,D,E
Reference:http://pubs.vmware.com/vsphere-51/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-51-networking-guide.pdf

Question No : 82 - (Topic 2)

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

A. Route based on source MAChash
B. Route using physical NIC load
C. Route based on the destination virtual port ID
D. Route based on port IP hash

Answer: A,D
Reference:http://pubs.vmware.com/vsphere-51/index.jsp#com.vmware.vsphere.networking.doc/GUID-796BBD4A-18E2-4E19-889C-C529AF011323.html

Question No : 83 - (Topic 2)

Which type of port on a secondary private VLAN can communicate with promiscuous ports and other ports that share its VLAN tag?

A. Isolated
B. Promiscuous
C. Community
D. Trunked

Answer: C
Reference:http://pubs.vmware.com/vsphere-55/topic/com.vmware.ICbase/PDF/vsphere-esxi-vcenter-server-55-networking-guide.pdf

Question No : 84 - (Topic 2)

Which methods canbe used to migrate a VMkernel port from a vSphere Standard Switch to

a vSphere Distributed Switch? (Choose two.)

A. Use the Add Virtual Adapter wizard from the Manage Virtual Adapters window.
B. Use the Manage Hosts wizard from the Configuration tab of the vDS.
C. Use the Migrate Virtual Machine Networking option to select the port from a list.
D. Edit the Network Adapter settings for the port and select a dvPort group from the list.

Answer: A,B
Reference:http://www.dashvue.com/2011/04/migrating-to-vnetwork-distributed-switch/

Question No : 85 - (Topic 2)

Which statement describes the functionality of traffic shaping on a vSphere Standard Switch?

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

Answer: A
Explanation: A traffic shaping policy is defined by average bandwidth, peak bandwidth, and burst size. You can establish a traffic shaping policy for each port group and each distributed port or distributed port group.
ESXishapes outbound network traffic on standard switches and inbound and outbound traffic on distributed switches. Traffic shaping restricts the network bandwidth available on a port, but can also be configured to allow bursts of traffic to flow through at higher speeds.

Question No : 86 - (Topic 2)

Which vSwitch or vSwitch port group policy setting allows packets to be received by a virtual machine with different destination MAC addresses than the configured MAC address?

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

Answer: D

Explanation: Mac address changes allows packets to be received by virtual machines with different destination mac addresses than the configured one.

Question No : 87 - (Topic 2)

What failure will beacon probing identify invSphere networking?

A. An improper VLAN configuration on a physical switch port
B. A disconnected network cable
C. A VMkernel IP mismatch affecting vMotion or HA traffic
D. Jumbo frames improperly configured on an iSCSI target

Answer: A

Reference:http://kensvirtualreality.wordpress.com/2009/04/10/the-great-vswitch-debate-part-4/(see beacon probing)

Question No : 88 - (Topic 2)

An administrator is creating avSphere Standard Switch with virtual machine and VMkernel networking. The administrator has two uplinks attached to the switch and wants to make sure multiple sessions for a virtual machine can utilize both uplinks.

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

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

Answer: A
Reference:http://www.vmware.com/files/pdf/virtual_networking_concepts.pdf(page 8, see route based on IP hash)

Question No : 89 - (Topic 2)

An administrator wants to determine the current network adapter configuration for an uplink on an ESXi 5.x host.

Which three items can be viewed from the Network Adapters section of the Configuration tab, using the vSphere Client? (Choose three.)

A. VLAN configuration
B. AdapterDriver
C. Actual speed and duplex
D. Adapter Name
E. vSwitch configuration

Answer: C,D,E
Explanation: http://www.vmguru.nl/wordpress/wp-content/uploads/2010/03/networkcards-config-check.jpg

Question No : 90 - (Topic 2)

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

A. Isolation allows domination by any one traffic flow.
B. Limits enforce maximum throughput control on a virtual machine.
C. Enforce traffic bandwidth limit on the overall vDS set of dvUplinks.
D. Load based teaming efficiently uses a vDS set of dvUplinks for network capacity.
E. Relative shares fairly allocates available bandwidth among multiple flows.

Answer: C,D,E
Reference:http://www.vmware.com/files/pdf/techpaper/VMW_Netioc_BestPractices.pdf(pag

e 4)

Question No : 91 - (Topic 2)

Which two statements are true about VLANs and portgroups defined on a vSphere Standard Switch? (Choose two.)

A. A VLAN can be accessed by the entire virtual switch or individual portgroups.
B. VLANs can be configured only on individual portgroups.
C. Multiple portgroups are restricted from accessing the same VLAN.
D. Multiple VLANs can be accessed by virtual machines connected to one portgroup.

Answer: A,D

Reference:http://www.vmware.com/files/pdf/virtual_networking_concepts.pdf(page 6, see port groups)

Question No : 92 - (Topic 2)

A vSphere Standard Switch has been configured for IP-based load balancing using two uplinks. A new uplink is added to the vswitch. What additional configuration is required 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, but it will not participate in the active NIC team until assigned to a port group.
C. The physical switch must add the new port to the existing802.3ad group.
D. The uplink is automatically marked as unused when it is added to IP-based NIC team.

Answer: C

Explanation:

For 802.3ad group, you need to add a physical switch to make sure it works properly. The switch must be set to perform 802.3ad link aggregation in static mode ON and the virtual switch must have its load balancing method set to Route based on IP hash. Ensure that the participating NICs are connected to the ports configured on the same physical switch.

Topic 3, Plan andConfigure vSphere Storage

Question No : 93 - (Topic 3)

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

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

A. They are generated by Datastore Clusters as LUNs are added tothe cluster.
B. They are automatically determined by the Storage Profile when it is created.
C. They can be retrieved from the array through the VMware APIs for Storage Awareness (VASA).
D. They can be manually generated by the administrator.

Answer: C,D

Explanation:

Understanding Storage Capabilities

A storage capability outlines the quality of service that a storage system can deliver. It is a guarantee that the storage system can provide a specific set of characteristics for capacity, performance, availability, redundancy, and so on.

If a storage system uses Storage APIs – Storage Awareness, it informs vCenter Server that it can guarantee a specific set of storage features by presenting them as a storage capability. vCenter Server recognizes the capability and adds it to the list of storage capabilities in the Manage Storage Capabilities dialog box. Such storage capabilities are system-defined. vCenter Server assigns the system-defined storage capability to each datastore that you create from that storage system.

NOTE:

Because multiple system capabilities for a datastore are not supported, a datastore that spans several extents assumes the system capability of only one of its extents.
You can create user-defined storage capabilities and associate them with datastores. You should associate the same user-defined capability with datastores that guarantee the same level of storage capabilities. You can associate a user-defined capability with a datastore that already has a system-defined capability. A datastore can have only one system-defined and only one user-defined capability at a time.

Question No : 94 - (Topic 3)

An administrator has deployed vCenter Data Recovery and wants the largest possible de-duplication store. Which three storage options can be used? (Choosethree.)

A. Two CIFS shares
B. Two RDMs on a FCP array
C. One NFS mount on the ESXi host and one RDMs on an iSCSI array
D. One CIFS share and one FCP RDM
E. Two NFS mounts on the ESXi host

Answer: B,C,E

Explanation: VDR supports deduplication stores that are up toone terabyte in size and each backup appliance is limited to using two deduplication stores per appliance (1 TB on VMDKs and RDMs and 500 GB on CIFS network shares). To get the largest possible dedup store, we must not use CIFS.

Question No : 95 - (Topic 3)

An administrator must decommission a datastore.

Unmount VMFS or NFS Datastores

When you unmount a datastore, it remains intact, but can no longer be seen from the hosts that you specify. The datastore continues to appear on other hosts, where it remains mounted.

Do not perform any configuration operations that might result in I/O to the datastore while the unmount is in progress.

NOTE   vSphere HA heartbeating does not prevent you from unmounting the datastore. If a datastore is used for heartbeating, unmounting it might cause the host to fail and restart any active virtual machine. If the heartbeating check fails, the vSphere Client displays a warning.

Prerequisites

Before unmounting VMFS datastores, make sure that the following prerequisites are met:

- No virtual machines reside on the datastore|
- The datastore is not part of a datastore cluster.
- The datastore is not managed by Storage DRS.
- Storage I/O control is disabled for this datastore.
- The datastore is not used for vSphere HA heartbeating.

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

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

Answer: A,B,E

Question No : 96 - (Topic 3)

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.

Which storage option best meets the company objectives?

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

Answer: D

Explanation:

NFS is agood choice to increase disk capacity of a vSphere environment in which vMotion can be used and the existing LAN infrastructure can be used.

Question No : 97 - (Topic 3)

An administrator has determined that storage performance to a group of virtual machines is reduced during peak activity. The virtual machines are located in a VMFS datastore called Production1 on an active-active storage array. The ESXi 5.x host running the virtual

machines is configured with an MRU multipathing policy.

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

A. Add virtual storage, create a VMFS datastore called Production2 on the new storage, and then migrate some of the virtual machines from Production1 to Production2.
B. Change the storage multipathing policy to Round Robin.
C. Add physical storage, create a VMFS datastore called Production2 on the new storage, and then migrate some of the virtual machines from Production1 to Production2.
D. Change the storage multipathing policy to Fixed with default settings.

Answer: B,C
Explanation:
Round Robin (VMware) The host uses an automatic path selection algorithm rotating through all available paths. This implements load balancing across all the available physical paths.
Load balancingis the process of spreading server I/O requests across all available host paths. The goal is to optimize performance in terms of throughput (I/O per second, megabytes per second, or response times).

Question No : 98 - (Topic 3)

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

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

Answer: B,D,E
Explanation:
Extents are only a single extent – not multiples. Also, because NFS is not VMFS it does not use extents. You grow the NFS fromthe actual NAS appliance itself with extents.

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.

- Storage I/O Control is supported on Fibre Channel-connected, iSCSI-connected, and NFS-connected storage. Raw Device Mapping (RDM) is not supported.

- Storage I/O Control does not support datastores with multiple extents.

- Before using Storage I/O Control on datastores that are backed by arrays with automated storage tiering capabilities, check the *VMware Storage/SAN Compatibility Guide* to verify whether your automated tiered storage array has been certified to be compatible with Storage I/O Control.

Question No : 99 - (Topic 3)

What number of IOPS should be used with Storage I/O Control to limit disk throughput to roughly 10 MBps if the guest application writes 64KB blocks?

A. 320
B. 160
C. 240
D. 64

Answer: B
erence:http://www.vmware.com/files/pdf/techpaper/view_storage_considerations.pdf(page 3 and 4)

Question No : 100 - (Topic 3)

What are two methods of maximizing VMFSperformance for virtual machines across all the hosts in a cluster? (Choose two.)

A. Use disk shares to prioritize virtual machine disk I/O
B. Enable Storage I/O control
C. Enable Storage DRS with I/O load balancing
D. Enable Host Cache using local SSD drives

Answer: B,C

Explanation:

To maximize VMFS performance of virtual machines, you can enable Storage I/O control and storage DRS with I/O load balancing.
Reference:http://www.vmware.com/files/pdf/techpaper/VMW-vSphere41-SIOC.pdf

Question No : 101 - (Topic 3)

Click the Exhibit button.
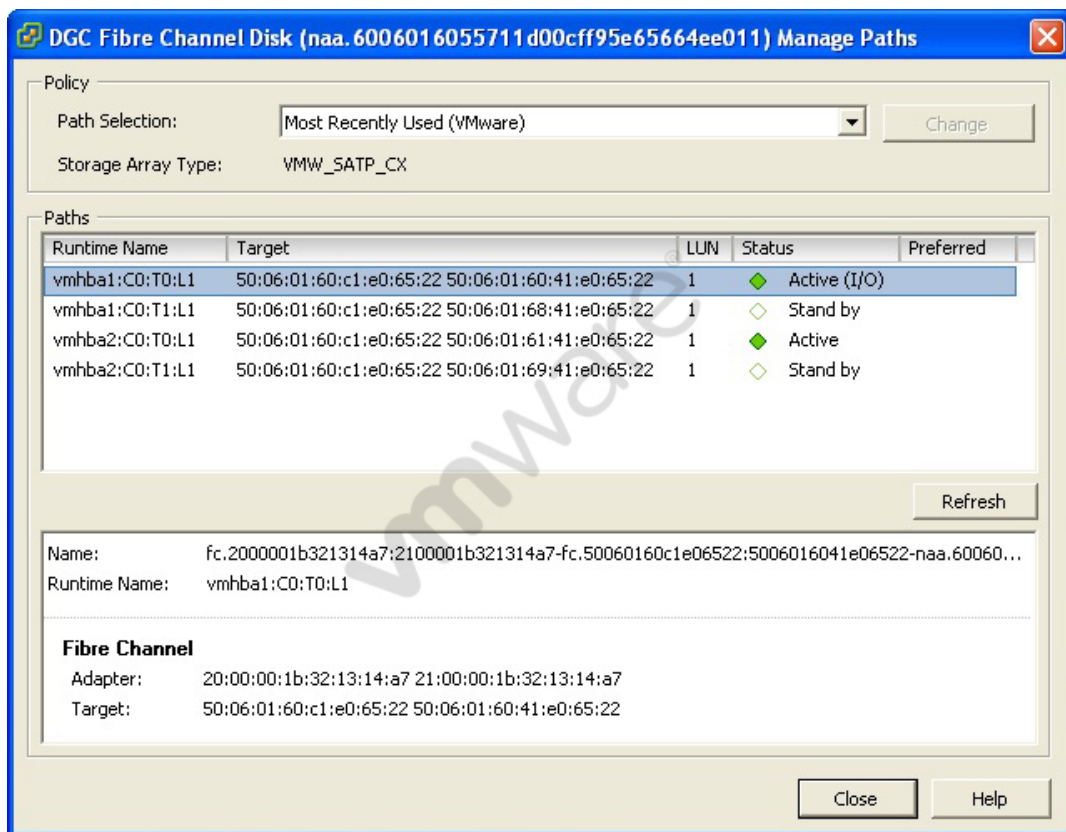
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200-601 Dump PDF VCE	500-052 Dump PDF VCE	644-066 Dump PDF VCE	700-201 Dump PDF VCE
210-060 Dump PDF VCE	500-170 Dump PDF VCE	644-068 Dump PDF VCE	700-205 Dump PDF VCE
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