VMware

Exam VCP-510

VMware Certified Professional on vSphere 5

Version: 29.0

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

Question No : 1 - (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 Virtual Appliance (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 : 2 - (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 : 3 - (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_config/authentication_and_user_management/c_administrator.html

Question No : 4 - (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 : 5 - (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 : 6 - (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 : 7 - (Topic 1)

What two Advanced 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 : 8 - (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 : 9 - (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. 1v CPU, 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 licensing impact 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 : 10 - (Topic 1)

Which three configuration settings will 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 Console NICs 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 : 11 - (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 : 12 - (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.

Users who 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 : 13 - (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 : 14 - (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.