VMware

Exam Questions 2V0-21.20

Professional VMware vSphere 7.x

NEW QUESTION 1
An administrator wants to be able to log in to the vSphere Client and view the inventories of two vCenter Server instances.
What must the administrator do to meet this requirement? (Choose the best answer.)

A. Configure Enhanced Linked Mode on each vCenter Server instance after deployment is complete.
B. Connect each vCenter Server instance to the same vCenter Single Sign-On domain during deployment.
C. Connect each vCenter Server instance to the same vCenter Single Sign-On domain using the vSphere Client.
D. Configure the vCenter Server Management Interface to view both vCenter Server instances.

Answer: B

Explanation:
https://kb.vmware.com/s/article/2034074
You can join vCenter Server instances in Linked Mode only when all of the instances are registered in the same Single Sign-On deployment. This includes Single Sign-On instances installed on different sites. When vCenter Server B on site B is joined to vCenter Server A on site A, the join tool establishes connection both to Single Sign-On A and Single Sign-On B.

NEW QUESTION 2
An administrator is investigating the reason for a powered on virtual machine failing to migrate with the following error log message:

```
The virtual machine requires hardware features that are unsupported or disabled on the
target host.

CPUID details: incompatibility at level 0xx register 'xxx'
Host bits: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx
Required: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx
```

Which step should the administrator complete to resolve this error? (Choose the best answer.)

A. Configure High Availability on the cluster.
B. Configure vSAN on the cluster.
C. Configure Distributed Resource Scheduler (DRS) on the cluster.
D. Configure Enhanced vMotion Compatibility on the cluster.

Answer: D

NEW QUESTION 3
Which type of network adapter is designed to provide connectivity to hosts and handle the standard system traffic of vSphere vMotion? (Choose the best answer.)

A. VMkernel port
B. VXLAN virtual tunnel end point (VXLAN VTEP)
C. Virtual machine network interface card (VMNIC)
D. VM network

Answer: A

NEW QUESTION 4
An IT department is experiencing random hardware failures that are costing the company money. The CIO is looking for technical support beyond traditional break/fix with enhanced visibility and proactive insights into the environment at no additional cost.
Which VMware service meets the needs of the CIO? (Choose the best answer.)

A. VMware Global Support Services
B. VMware Premier Support
C. VMware Skyline
D. vRealize Operations Manager

Answer: C

NEW QUESTION 5
Which two components are core to vSphere? (Choose two.)

A. ESXi
B. vSAN
C. vCenter Server
D. vRealize Network Insight
E. vRealize Operations Manager

Answer: AC

NEW QUESTION 6
An administrator is unable to manage certificates with the vSphere Client.
What is another supported option that can be used to manage certificates? (Choose the best answer.)

A. vCenter Server Management Interface

B. Command Line Interface
C. vRealize Operations Manager
D. Cloud Builder

Answer: B

NEW QUESTION 7
An administrator has been tasked with mitigating datastore capacity issues without datastore expansion. Which vSphere Storage vMotion migration option would achieve this mitigation? (Choose the best answer.)

A. Lazy-zeroed thick-provisioned
B. Thin-provisioned
C. Eager-zeroed thick-provisioned
D. Same as format source

Answer: B

NEW QUESTION 8
Refer to the exhibit.

An administrator enables email notifications as shown in the attached alarm. However, notifications are NOT being sent.
Where must the mail server settings be configured to resolve this issue? (Choose the best answer.)

A. In vCenter Server General settings in the vSphere Client.
B. In the alarm rule definitions
C. In the ESXi host system config for the cluster node hosting the vCenter Server Appliance
D. In Administration settings in the vCenter Server Management Interface

Answer: A

NEW QUESTION 9
Refer to the exhibit.

An administrator is consistently receiving an alarm regarding a CPU performance issue; however, there is NO CPU issue identified.
What can the administrator do to make sure the alarm is triggered when there is an actual CPU performance issue? (Choose the best answer.)

A. Change 'VM CPU Ready Time' to 'VM Memory Usage.'
B. Change 'Show as Critical' to 'Show as Warning.'
C. Change 'VM CPU Ready Time' to 'VM CPU Usage.'
D. Change 'is below' to 'is above.'

Answer: D

Explanation:
https://www.actualtechmedia.com/wp-content/uploads/2013/11/demystifying-cpu-ready.pdf

NEW QUESTION 10
An administrator would like to make virtual machine templates and ISO images available to all vCenter Server instances in the data center.
Which feature should the administrator use to achieve this goal? (Choose the best answer.)

A. Host profiles
B. Content libraries
C. Storage policies
D. Resource pools

Answer: B

NEW QUESTION 10
An administrator is asked to take a snapshot of a virtual machine prior to an application upgrade. The virtual machine has one standard virtual machine disk (VMDK) and one physical mode raw device mapping (RDM) attached.
Which statement is true with regard to taking this snapshot? (Choose the best answer.)

A. The administrator will be unable to snapshot the RDM.
B. The administrator will be able to snapshot the standard VMDK in independent persistent mode.
C. The administrator will be able to snapshot the RDM in independent persistent mode.
D. The administrator will be able to snapshot both disks.

Answer: A

Explanation:
https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.vsphere.vm_admin.doc/GUID-53F65726-A23B

NEW QUESTION 12
Which virtual disk option allows a virtual machine to consume the minimum storage capacity? (Choose the best answer.)

A. Independent persistent
B. Lazy-zeroed thick-provisioned
C. Eager-zeroed thick-provisioned
D. Thin-provisioned

Answer: D

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-8204A8D7-25B6-4

NEW QUESTION 14
An administrator wants to implement virtual machine encryption.
Which component encrypts the virtual machine files? (Choose the best answer.)

A. Certificate
B. Data encryption key (DEK)
C. Key encryption key (KEK)
D. Key management server (KMS)

Answer: BC

NEW QUESTION 17
An administrator is running a variety of vSphere 6.5 cluster configurations and is tasked with upgrading to vSphere 7.0.
Which two conditions could cause potential conflicts or outages to the virtual machines (VMs)? (Choose two.)

A. The use of a Windows vCenter Server system
B. Datastores attached to the hosts based on VMFS3
C. The upgrade of a vSphere Distributed Switch with VMs attached
D. The upgrade of an external platform services controller
E. The use of third-party custom vSphere Installation Bundles (VIBs) installed on the ESXi hosts

Answer: CE

Explanation:
https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/techpaper/vmfs-5_upgrade_consideratio

NEW QUESTION 18
vCenter Server experiences a catastrophic failure and the administrator must restore from a vCenter Server backup stored on an FTP server.
What must the administrator do to restore vCenter Server? (Choose the best answer.)

A. Use the vSphere Client to deploy the appliance onto an ESXi host and restore the vCenter Server data from the backup.
B. Use the vCenter Server Management Interface to restore the vCenter Server data, and power on the appliance.
C. Use the vCenter Server GUI installer to deploy a vCenter Server instance and use the vSphere Client to restore vCenter Server data from the backup.
D. Use the vCenter Server GUI installer to deploy a vCenter Server instance and restore the vCenter Server data from the backup.

Answer: D

NEW QUESTION 20
A new vSphere 7.0 environment is deployed with the following:

> A single vCenter Server
> Two vSAN clusters
> A vSAN default storage policy

Which statement is true regarding virtual disk availability in this environment? (Choose the best answer.)

A. Replicas will be placed on different disk groups but can be placed on the same host.
B. All stripes will be placed on different disk groups and cannot be placed on the same host.
C. Each virtual disk will have four replicas of data.
D. Each virtual disk will have two replicas of data.

Answer: D

NEW QUESTION 22
Which action is supported over a VMkernel vMotion TCP/IP stack? (Choose the best answer.)

A. Hot migrations
B. Fault tolerance protection
C. Virtual machine cloning
D. Snapshot creation

Answer: B

NEW QUESTION 25
vCenter High Availability (HA) protects vCenter Server against host and hardware failures.
What is the minimum number of ESXi hosts required to enable this capability? (Choose the best answer.)

A. 5
B. 7
C. 1
D. 3

Answer: D

NEW QUESTION 28
An administrator is configuring ESXi host behavior before and during the remediation process. Which remediation setting is supported only on select hardware platforms? (Choose the best answer.)

A. VM migration
B. HA admission control
C. Maintenance mode failures
D. Quick Boot

Answer: D

NEW QUESTION 32
An administrator wants to leverage the processor-specific technology that uses a security extension for securing virtual machines (VMs). This will allow user-level code to define private regions of memory called enclaves that are protected from external access.
What does the administrator need to configure to enable VMs to use this technology? (Choose the best answer.)

A. Trusted Platform Module (TPM)
B. Virtual Intel Software Guard Extensions (vSGX)
C. Advanced Encryption Standard-New Instructions (AES-NI)
D. Transparent Page Sharing (TPS)

Answer: B

NEW QUESTION 36
An administrator runs a two-node vSphere cluster, which contains two domain controller virtual machines (VMs). The administrator wants to ensure that VMs run on separate hosts without interfering with normal maintenance operations.
How should the administrator configure Distributed Resource Scheduler (DRS)? (Choose the best answer.)

A. Create a 'Must run Virtual Machines to Hosts' anti-affinity rule.
B. Create a 'Virtual Machines to Virtual Machines' anti-affinity rule.
C. Create a 'Virtual Machines to Virtual Machines' dependency rule.
D. Create a 'Should run Virtual Machines to Hosts' anti-affinity rule.

Answer: B

NEW QUESTION 37
ESXi provides VLAN support by assigning a VLAN ID to which component? (Choose the best answer.)

A. Virtual standard switch
B. Physical network interface card (NIC)
C. Virtual distributed switch

D. Port group

Answer: D

NEW QUESTION 39
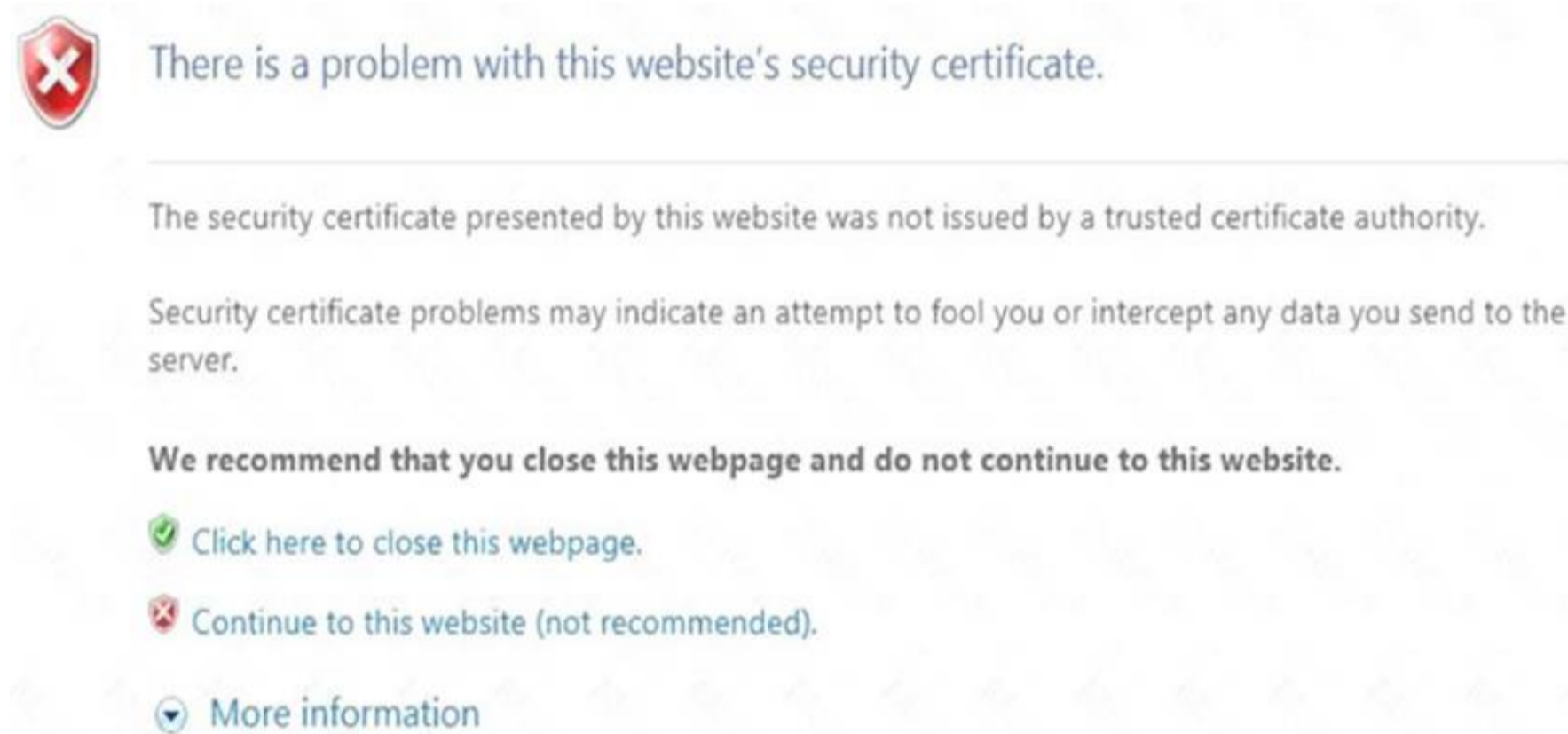Which two configuration tasks must be performed from the vCenter Server Management Interface? (Choose two.)

A. Add administrator accounts.
B. Add an Network Time Protocol (NTP) server.
C. Add a vCenter Server license.
D. Enable SSH login.
E. Change the logging level.

Answer: BC

NEW QUESTION 44
Refer to the exhibit.

An administrator repeatedly encounters this error message while attempting to connect to vCenter Server. What should the administrator do to address this error message? (Choose the best answer.)

A. Use a different browser.
B. Trust the VMware certificate authority (CA) root certificate.
C. Restart the vCenter Server Appliance.
D. Reissue a new, unexpired certificate.

Answer: D

NEW QUESTION 48
A single host is manually configured to company standards.
Which option would an administrator select to capture this configuration for future use? (Choose the best answer.)

A. Extract Host Profile
B. Reset Host Customizations
C. Attach Host Profile
D. Import Host Profile

Answer: A

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.esxi.install.doc/GUID-4D8EDD07-6C77-4845- https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.hostprofiles.doc/GUID-4D3909C5-A3

NEW QUESTION 49
Which tool is used to monitor the free space in the vCenter Server database? (Choose the best answer.)

A. esxtop
B. df
C. vimtop
D. vmstat

Answer: B

NEW QUESTION 50

Which local only host utility is used for primary, real-time performance monitoring in vSphere? (Choose the best answer.)

A. resxtop
B. top
C. esxtop
D. vSphere Command-Line Interface (CLI)

Answer: C

NEW QUESTION 51

An administrator is troubleshooting a recent failure and finds the following error messages:

```
The guest OS has reported an error during quiescing. The error code was: 5 The error message was:
Asynchronous operation failed: >VssSyncStart
The guest OS has reported an error during quiescing. The error code was: 5 The error message was:
'VssSyncStart' operation failed: The >system cannot find the file specified. (0x80070002)
```

Which action has failed, thus resulting in these errors? (Choose the best answer.)

A. Virtual machine power off
B. Virtual machine snapshot
C. Virtual machine migration
D. Virtual machine reconfiguration

Answer: B

NEW QUESTION 52

An administrator adds an additional host to a cluster and is attempting to remediate the configuration with a host profile.
Which option would the administrator select on the host before it can be remediated with an existing host profile? (Choose the best answer.)

A. Export Host Customizations
B. Export Host Profile
C. Attach Host Profile
D. Copy Settings from Host

Answer: C

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.hostprofiles.doc/GUID-09C00374-53C

NEW QUESTION 55

What is the minimum CPU core requirement for successful installation, or upgrade, or ESXi on a host? (Choose the best answer.)

A. 8
B. 1
C. 32
D. 2

Answer: D

NEW QUESTION 56

An administrator receives an escalation to investigate a low disk space alarm on a datastore. The administrator discovers that a snapshot has been accidentally taken on a production, write-intensive database server. The snapshot has grown to nearly 1 TB in size in less than an hour and continues growing every second. Which behavior should the administrator expect while deleting the snapshot? (Choose the best answer.)

A. ESXi will create a virtual RAM disk to cache ongoing database write activity; performance impact will be limited.
B. ESXi will commit the snapshot delta disk into the base disk; ongoing database write activity could result in long stun times.
C. ESXi will merge the snapshot delta disk into the base disk; the virtual machine will be briefly stunned.
D. ESXi will instantly switch from the base disk to the snapshot delta disk with no performance impact.

Answer: B

Explanation:
https://kb.vmware.com/s/article/1002836

NEW QUESTION 60

An administrator is asked to deploy a virtual machine (VM) that can sniff packets for the Security team. Which setting must be set to "accept" on the VM's port group? (Choose the best answer.)

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

Answer: A

NEW QUESTION 62

An administrator is tasked with upgrading an existing vSphere environment to version 7.0. There are existing VMFS3 and VMFS5 datastores in the environment. Which statement is true regarding this upgrade? (Choose the best answer.)

A. An ESXi 7.0 host will NOT recognize a VMFS3 datastore.
B. VMFS3 is supported with ESXi 7.0 to store boot configurations only.
C. A VMFS5 datastore CANNOT be upgraded; a new VMFS6 datastore is required.
D. An ESXi 7.0 host can automatically upgrade a VMFS5 datastore.

Answer: C

NEW QUESTION 65
An administrator can attach a baseline to which two inventory objects? (Choose two.)

A. Resource pools
B. Data centers
C. Datastores
D. Templates
E. ESXi hosts

Answer: DE

Explanation:
https://docs.vmware.com/en/VMware-vSphere/6.0/com.vmware.vsphere.upgrade.doc/GUID-5EA28531-0813-4

NEW QUESTION 70
Which step can an administrator take so that vSphere can access patch information if vCenter Server does NOT have Internet access? (Choose the best answer.)

A. Use a Web server on the vCenter Server machine to automate the transfer of files.
B. Install VMware vSphere Update Manager Download Service on a Windows server.
C. Use an offline ISO file to import patches to the vSphere Lifecycle Manager depot manually.
D. Install VMware vSphere Update Manager Download Service on a Linux server.

Answer: D

NEW QUESTION 73
A virtual machine with a single 100 GB virtual machine disk file has a single 20 GB snapshot. The virtual machine is powered off.
How much additional free space on the datastore is required to delete the snapshot, committing the snapshot delta disk to the base disk? (Choose the best answer.)

A. 0 GB
B. 100 GB
C. 20 GB
D. 120 GB

Answer: A

NEW QUESTION 76
An administrator is tasked with planning an upgrade of a VMware vSphere environment to version 7.0. The platform consists of 80 ESXi hosts, logically divided into 10 clusters. The tasks will be completed by another operations team within the company.
The hardware is consistent and a single embedded vCenter Server 6.7 appliance is managing the environment. Which statement is true regarding a suitable upgrade approach? (Choose the best answer.)

A. The vCenter Server can be upgraded using a pre-configured customized JSON template.
B. The ESXi hosts can only be upgraded using the Graphical User Interface Installer.
C. Auto-deploy must be used to upgrade the large scale environment.
D. A new Platform Services Controller must be deployed first.

Answer: C

NEW QUESTION 77
Which privilege is required to run the esxtop utility? (Choose the best answer.)

A. Root user
B. vStatsUser
C. vStatsAdmin
D. Administrator

Answer: A

NEW QUESTION 78
An administrator wants to be able to send vCenter Server log files to a remote syslog server and analyze logs using vRealize Log Insight.
Which step must the administrator take to meet this requirement? (Choose the best answer.)

A. Configure the vCenter Server logging options using the vSphere Client.
B. Specify the remote syslog server name at deployment using the vCenter Server GUI Installer.
C. Specify the vRealize Log Insight system name using the vSphere Client.
D. Configure log file forwarding using the vCenter Server Management Interface.

Answer: D

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vcenter.configuration.doc/GUID-9633

NEW QUESTION 83
An administrator sees a virtual machine message that reads, "Consolidation is required" in the vSphere Client. Which action does ESXi take when the administrator completes snapshot consolidation? (Choose the best answer.)

A. Collapses all snapshots in the current snapshot tree
B. Commits redundant delta disks to the base disk
C. Collapses all snapshots into a single snapshot
D. Deletes all snapshots without committing to the base disk

Answer: D

NEW QUESTION 88
What is a minimum disk controller requirement for VMware vSAN? (Choose the best answer.)

A. A disk controller in JBOD mode
B. A disk controller in pass-through or RAID 1 mode
C. A disk controller in pass-through or RAID 5 mode
D. A disk controller in pass-through or RAID 0 mode

Answer: D

NEW QUESTION 90
When deploying a vCenter Server Appliance, which two single sign-on (SSO)-related options are presented to an administrator? (Choose two.)

A. Create a vCenter Enhanced Linked Mode group
B. Create a vCenter Single Sign-On domain
C. Join an existing vCenter Single Sign-On domain
D. Repoint to another domain
E. Reset Single Sign-On password

Answer: BC

NEW QUESTION 93
What is the foundation of a software-defined data center (SDDC)? (Choose the best answer.)

A. vRealize Operations Manager
B. vSphere
C. vSAN
D. NSX

Answer: B

NEW QUESTION 94
What can an administrator use to partition limited CPU and memory resources between two departments? (Choose the best answer.)

A. vSphere distributed switch
B. vSphere High Availability
C. vCenter folders
D. Resource pools

Answer: D

NEW QUESTION 97
A host profile is updated with a new password that urgently needs to be changed on all hosts attached to the host profile.
Which option would an administrator select to complete the password change? (Choose the best answer.)

A. Copy Settings from Host
B. Remediate
C. Check Host Profile Compliance
D. Edit Host Customizations

Answer: B

NEW QUESTION 102
An administrator is deploying a vCenter Server Appliance and wants to join an existing vCenter Single Sign- On domain.
The administrator gathers the following information:
> FQDN of the vCenter Single Sign-On server to join
> Domain name of the vCenter Single Sign-On server being joined
> Password of the vCenter Single Sign-On server administrator account.
What other information is needed to join the existing vCenter Single Sign-On domain? (Choose the best answer.)

A. vSphere Client port
B. Lightweight Directory Access Protocol (LDAP) port
C. Single Sign-On (SSO) port
D. HTTPS port

Answer: A

NEW QUESTION 103
An administrator is utilizing Network I/O Control (NIOC) to allocate bandwidth utilization on a physical 10 Gbps adapter.
What is the maximum amount of bandwidth that can be reserved? (Choose the best answer.)

A. 2.5 Gbps
B. 10 Gbps
C. 5.0 Gbps
D. 7.5 Gbps

Answer: D

NEW QUESTION 106
An administrator is tasked with upgrading an existing vSphere environment to version 7.0. The environment consists of mounted NFS v3 datastores. The new design requires configuration of NFS v4.1 datastores.
Which statement is true regarding this upgrade? (Choose the best answer.)

A. The NFS v3 datastores can be unmounted and remounted using NFS v4.1.
B. A new VMKernel port for NFS v4.1 needs to be created before the upgrade.
C. Following first boot, NFS v3 datastores are automatically converted to NFS v4.1 by ESXi 7.0
D. ESXi 7.0 does NOT support NFS v4.1.

Answer: B

NEW QUESTION 111
There are two vSphere clusters in a company environment. One cluster is hosting development workloads and another is hosting production workloads. Both vSphere clusters are managed by the same vCenter Server.
The application team would like to move a new virtual machine from the development to production cluster
with no downtime.
Which feature would allow non-disruptive movement between these two clusters? (Choose the best answer.)

A. Cross vCenter Migration
B. vSphere High Availability
C. vSphere vMotion
D. vSphere Replication

Answer: C

NEW QUESTION 115
An administrator is tasked with upgrading an existing vSphere environment to version 7.0. The current configuration is using an external Platform Services Controller.
Which two statements are true regarding this upgrade? (Choose two.)

A. The external Platform Services Controller needs to be converged into an embedded vCenter Server Appliance.
B. The external Platform Services Controller needs to be decommissioned following the deployment of the new vCenter Server Appliance.
C. The external Platform Services Controller backup can be restored to a new embedded vCenter Server Appliance.
D. The external Platform Services Controller needs to be upgraded after the vCenter Server Appliance.
E. The external Platform Services Controller needs to be powered down while a new vCenter Server Appliance is deployed.

Answer: AB

Explanation:
https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vcenter.upgrade.doc/GUID-30485437-B107-42

NEW QUESTION 117
What are two minimum disk requirements for a vSAN hybrid disk group configuration? (Choose two.)

A. At least one magnetic data disk
B. At least one SATADOM device
C. At least two magnetic data disks
D. At least one flash device
E. At least two flash devices

Answer: CD

NEW QUESTION 120
An administrator is NOT able to enable ESXi secure boot.
What is a possible cause of this issue? (Choose the best answer.)

A. The vCenter Server version is 7.0.
B. ESXi is using Trusted Platform Module version 1.2.

C. The ESXi version is 7.0
D. ESXi is using Unified Extensible Firmware Interface (UEFI).

Answer: C

NEW QUESTION 125
An administrator identifies a snapshot file named "Win10-000001-sesparse.vmdk" on a datastore. Which type of information can be determined about this datastore? (Choose the best answer.)

A. The datastore is formatted as VMFS3.
B. The datastore is formatted as VMFS6.
C. The datastore is a raw device mapping.
D. The datastore is a vSAN datastore.

Answer: B

NEW QUESTION 126
What is the server virtualization product that combines the ESXi hypervisor and the vCenter Server? (Choose the best answer.)

A. NSX
B. vRealize Operations Manager
C. vSphere
D. vSAN

Answer: C

NEW QUESTION 131
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