

# VMware

## Exam Questions 2V0-21.20

Professional VMware vSphere 7.x



#### NEW QUESTION 1

An administrator is trying to configure vCenter Single Sign-On from the vSphere Client but does NOT have permission. Which role is required in order to configure vCenter Single Sign-On? (Choose the best answer.)

- A. vCenter Single Sign-On Administrator
- B. vCenter Administrator
- C. vCenter Server Appliance Root
- D. vCenter Power User

**Answer: A**

#### 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.)

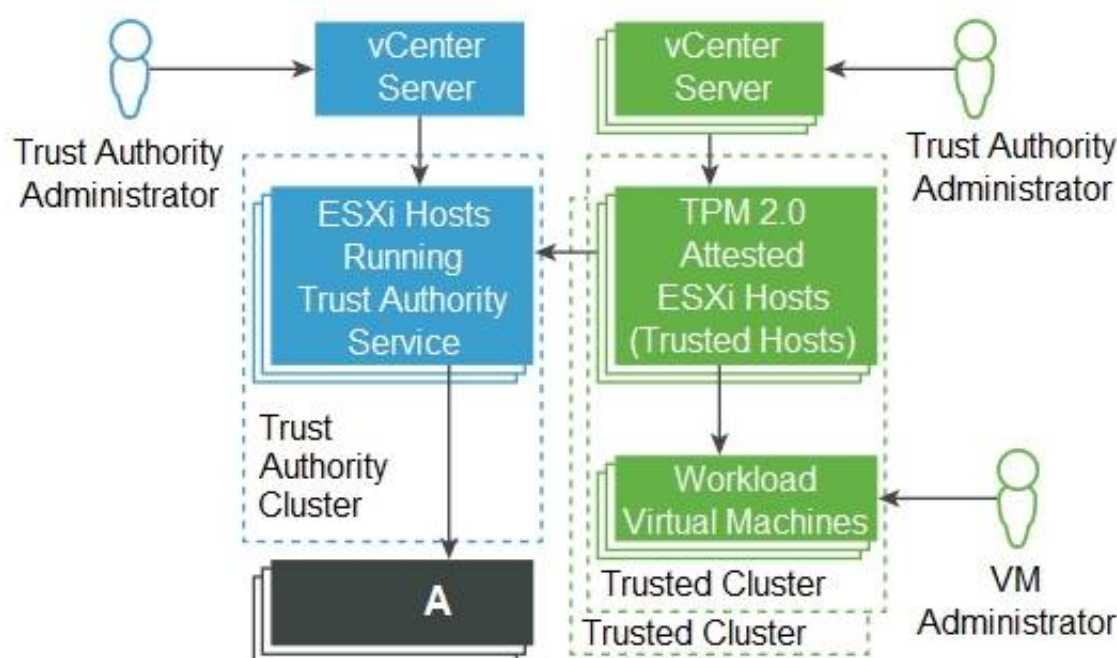
- A. Configure High Availability on the cluster.
- B. Configure vSAN on the cluster.
- C. Configure Distributed Resource Scheduler (DRS) on the cluster.
- D. Configure Enhanced vMotion Compatibility on the cluster.

**Answer: D**

#### NEW QUESTION 3

Refer to the exhibit.

**Figure 8-1. vSphere Trust Authority Architecture**



Which trusted infrastructure component is missing and represented by the area labeled "A"? (Choose the best answer.)

- A. Key Management Server
- B. vSphere Virtual Machine Encryption
- C. Key Provider Service
- D. Attestation Service

**Answer: A**

#### NEW QUESTION 4

Which vSphere feature provides for continuous local data center availability? (Choose the best answer.)

- A. vSphere Fault Tolerance
- B. Cross vCenter Migration
- C. vSphere Storage vMotion
- D. vSphere Replication

**Answer: A**

#### NEW QUESTION 5

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 6

What are two pre-requisites for enabling ESXi secure boot? (Choose two.)

- A. External Key Management Service
- B. vCenter Server 7.0 or greater
- C. Trusted Platform Module version 2.0
- D. ESXi 7.0 or greater
- E. Unified Extensible Firmware Interface (UEFI)

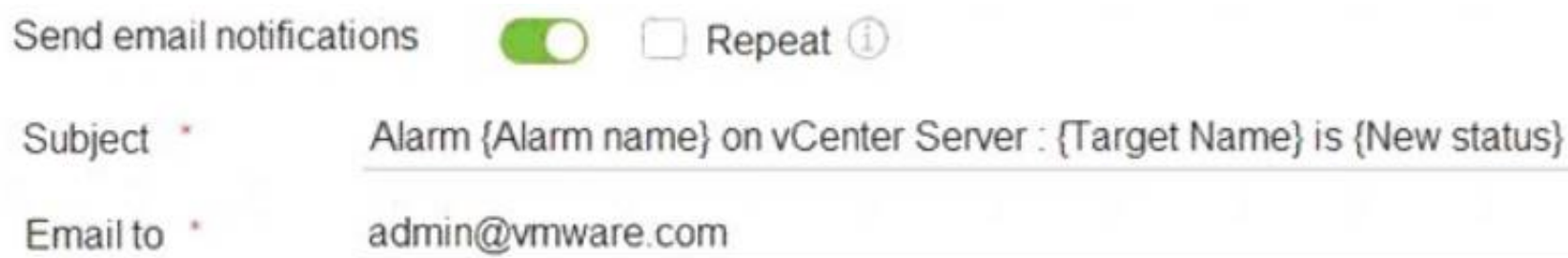
**Answer:** AE

#### Explanation:

<https://blogs.vmware.com/vsphere/2017/05/secure-boot-esxi-6-5-hypervisor-assurance.html>

#### NEW QUESTION 7

Refer to the exhibit.



The screenshot shows the configuration for an email notification alarm in vCenter. The 'Send email notifications' toggle is turned on (green). The 'Repeat' checkbox is unchecked. The 'Subject' field contains the text 'Alarm {Alarm name} on vCenter Server : {Target Name} is {New status}'. The 'Email to' field contains the email address 'admin@vmware.com'.

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 8

What is the minimum number of ESXi hosts required to support vCenter High Availability? (Choose the best answer.)

- A. 6
- B. 3
- C. 2
- D. 4

**Answer:** B

#### NEW QUESTION 9

Refer to the exhibit.

Alarm Rule1

IF

VM CPU Ready Time

is below

1000=== ms for 15 min

ADD ADDITIONAL TRIGGER

THEN

Trigger the alarm and

Show as Critical

Send email notifications

☐

ADD ANOTHER RULE

DUPLICATE RULE

REMOVE RULE

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**

Which feature can an administrator use for site availability with minimal effort and a low recovery point objective (RPO)? (Choose the best answer.)

- A. vSphere vMotion
- B. vSphere High Availability
- C. vSphere Replication
- D. vSphere Fault Tolerance

**Answer: C**

**NEW QUESTION 13**

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

**NEW QUESTION 22**

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 27**

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 28**

In a vSphere High Availability (vSphere HA) cluster, which action does vSphere HA take when the VM Monitoring service does NOT receive heartbeats from a virtual machine (VM) in the cluster? (Choose the best answer.)

- A. The VM is restarted on a different host in the cluster.
- B. The VM is suspended on the same host in the cluster.
- C. The VM is migrated to a different host in the cluster.
- D. The VM is restarted on the same host in the cluster.

**Answer:** A

**NEW QUESTION 30**

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 33**

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 34**

Which resource pool setting is used to specify the relative priority or importance as high, normal or low? (Choose the best answer.)

- A. Limits
- B. Reservation type
- C. Shares
- D. Reservations

**Answer:** C

#### NEW QUESTION 36

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 41

Which two VMware features are supported in a virtual machine using Intel Software Guard Extensions (Intel SGX) technology? (Choose two.)

- A. Fault tolerance
- B. vSphere vMotion
- C. VM encryption
- D. Virtual machine suspend and resume
- E. Storage I/O Control

**Answer:** CE

#### Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.security.doc/GUID-EF552A5E-744B-4>

#### NEW QUESTION 43

Which feature is a pre-requisite for configuring admission control on a cluster? (Choose the best answer.)

- A. vSphere Enhanced vMotion Compatibility (EVC)
- B. vSphere High Availability (HA)
- C. vSphere Fault Tolerance
- D. vSphere Distributed Resource Scheduler (DRS)

**Answer:** B

#### Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-C4059DB9-D673-45C>

#### NEW QUESTION 48

What is a requirement of Storage I/O Control? (Choose the best answer.)

- A. Storage connected through Fibre Channel
- B. Management by a single vCenter Server
- C. Datastores with multiple extents
- D. Automated storage tiering capabilities

**Answer:** B

#### NEW QUESTION 52

Which VMware feature should an administrator configure to help manage and delegate CPU and memory resources? (Choose the best answer.)

- A. VMware Enhanced vMotion Compatibility (EVC)
- B. Resource pools
- C. vSphere Distributed Resource Scheduler (DRS)
- D. vSphere High Availability (HA)

**Answer:** B

#### NEW QUESTION 54

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

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 wants to ensure that when virtual machines (VMs) are powered on, Distributed Resource Scheduler (DRS) places them on the best-suited host. When the cluster becomes imbalanced, the administrator wants DRS to display recommendations for manual VM migration. Which DRS automation level should the administrator select? (Choose the best answer.)

- A. Manual
- B. Partially automated
- C. Fully automated
- D. Disabled

**Answer:** B

**Explanation:**

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-C21C0609-923B>

#### NEW QUESTION 64

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 69

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 72

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 76

An administrator places a 300 GB virtual machine named "Finance1" on a 2 TB datastore containing other virtual machines. After virtual machine placement, the datastore has 200 GB of free space. The accounting department takes a nightly snapshot of Finance1, then deletes the previous snapshot. The administrator is concerned about snapshots filling the datastore. Which statement is true regarding snapshots? (Choose the best answer.)

- A. The snapshots on Finance1 cannot outgrow the datastore in less than 24 hours.
- B. Any snapshot on Finance1 has the potential to fill the datastore to capacity.
- C. vCenter Server will not allow snapshots to fill the datastore beyond 95%.
- D. The snapshots on Finance1 will be automatically committed if SEsparse format is used.

**Answer:** B

#### 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 80**

An administrator is tasked with upgrading an existing VMware vSphere 6.5 environment to version 7.0. There are existing VMFS3 and VMFS5 datastores in the environment.

Which two statements are true regarding this upgrade? (Choose two.)

- A. VMFS5 is no longer supported with ESXi 7.0.
- B. VMFS3 is no longer supported with ESXi 7.0.
- C. An ESXi 7.0 host can automatically upgrade a VMFS5 datastore.
- D. An ESXi 7.0 host will automatically upgrade a VMFS3 datastore when discovered.
- E. A VMFS3 datastore cannot be upgraded; a new VMFS6 datastore is required.

**Answer:** BD

**Explanation:**

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-DAD74662-E09E-4>

**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 86**

Which two storage technologies can an administrator use to deploy the Virtual Machine File System (VMFS)? (Choose two.)

- A. Fibre Channel storage
- B. vSAN storage
- C. Virtual Volumes storage
- D. NFS storage
- E. iSCSI storage

**Answer:** AE

**NEW QUESTION 91**

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 92**

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 96**

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 101**

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 102**

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 106**

What is the basic packaging for vSphere Installation Bundles (VIBs) and metadata in vSphere Lifecycle Manager? (Choose the best answer.)

- A. Vendor add-on
- B. Base image
- C. Component
- D. Baseline

**Answer:** C

**NEW QUESTION 110**

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 112**

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 114**

Which feature can an administrator configure to have a copy of critical virtual machines in another cluster? (Choose the best answer.)

- A. vSphere Storage vMotion
- B. vSphere Fault Tolerance
- C. vSphere Replication
- D. Instant Clone

**Answer:** D

**NEW QUESTION 116**

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 118

A recently deployed set of test virtual machines are impacting the performance of a company development team project datastore. The shared cache server appears to be suffering from storage congestion.

Storage I/O Control is already enabled on all company datastores.

Which two steps should the administrator take to improve the performance of the cache server? (Choose two.)

- A. Update the storage provider for the existing array.
- B. Create a claim rule to control the storage path.
- C. Configure the path selection policy.
- D. Configure storage shares per virtual machine.
- E. Configure storage limits per virtual machine.

**Answer: DE**

#### Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-25C3D9FE-3A9D>

#### NEW QUESTION 122

Refer to the exhibit.



Which two statements are true regarding the state of the virtual machine (VM) if an administrator clicks the “Delete All” option? (Choose two.)

- A. The VM state will match Snap-C.
- B. No snapshots will remain on the VM.
- C. Snap-A will be intact on the VM.
- D. The VM state will match Snap-B
- E. The VM state will match Snap-A.

**Answer: BD**

#### Explanation:

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-542CF191-B8D](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-542CF191-B8D)

#### NEW QUESTION 126

Which step is required when adding an existing hard disk that is configured as a boot disk during virtual machine creation? (Choose the best answer.)

- A. Enable Secure Boot.
- B. Select ‘RDM Disk’ from the ‘Add New Device’ drop-down menu.
- C. Remove the existing disk before adding the boot disk.
- D. Set the boot delay to at least 5,000 milliseconds.

**Answer: C**

#### Explanation:

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-79116E5D-22B3](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-79116E5D-22B3)

#### NEW QUESTION 127

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