



## **VMware**

### **Exam Questions 3V0-21.23**

VMware vSphere 8.x Advanced Design

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### NEW QUESTION 1

After adding a new vSphere ESXi host with identical hardware configuration to an existing vSphere cluster, which task would an administrator complete prior to checking the compliance with an existing host profile?

- A. Attach the host profile to the new host
- B. Duplicate the host profile
- C. Copy the host settings from the new host
- D. Import the host profile

**Answer:** A

#### Explanation:

The task that should be completed prior to checking the compliance with an existing host profile is to attach the host profile to the new host, which allows applying the configuration template of the reference host to the new host.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.hostprofiles.doc/GUID-0E5BF330-A76> <https://www.nakivo.com/blog/how-to-create-and-set-up-vmware-vsphere-host-profiles/>

### NEW QUESTION 2

An administrator is looking to deploy a new VMware vCenter Instance. The current environment consists of 75 hosts and is expected to grow up to 100 hosts over the next three years.

Which deployment size should the administrator select?

- A. Medium
- B. Tiny
- C. Large
- D. Small

**Answer:** D

#### Explanation:

VMware: Small environment (up to 100 hosts or 1,000 virtual machines) Medium environment (up to 400 hosts or 4,000 virtual machine)

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vcenter.install.doc/GUID-88571D8A-46E1-464> The administrator should select the small deployment size for the new vCenter Server instance, which is suitable for an environment with up to 100 hosts or 1,000 virtual machines. The small deployment size has 4 vCPUs and 19 GB of memory, which can handle the current and expected growth of the environment. The other deployment sizes are either too large or too small for the environment. References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vcenter.install.doc/GUID-88571D8A-46E1-464>

### NEW QUESTION 3

An administrator needs to update a VMware vCenter instance to a newer minor release version. Due to restrictions within the environment, the vCenter instance does not have access to the Internet. As a first step, the administrator downloads the required update on another machine.

What are the next steps the administrator must perform to complete the update? A Place the update ISO file in a Virtual Machine File System (VMFS) datastore. ' Use the vSphere Client to select the update ISO file as the source for the update.

- A. Place the update ISO file in a Virtual Machine File System (VMFS) datastore. Use the vSphere Client to select the update ISO file as the source for the update
- B. Mount the ISO update file to the CD-ROM drive of the vCenter instance. Use the vCenter Management Interface to select the CD-ROM as the source for the update
- C. Place the ISO update file in a folder accessible to the vCenter instance over HTTPS. Use the vCenter Management Interface to select the update file as the source for the update
- D. Place the ZIP update file in a folder accessible to the vCenter instance over HTTPS. Use the vSphere Client to select the update file as the source for the update.

**Answer:** B

#### Explanation:

<https://4sysops.com/archives/three-ways-to-update-vmware-vcenter-server-appliance-vcsa/>

### NEW QUESTION 4

An administrator is responsible for the management of a VMware vCenter instance that is currently experiencing performance issues. The administrator quickly identifies that the CPU and memory utilization of vCenter is consistently over 80%. Upon further analysis, it seems that the vpxd process is contributing significantly to the performance issue.

A combination of which four steps should the administrator take to resolve the performance issues and ensure that a similar issue can be rectified without requiring downtime to vCenter moving forward? (Choose four.)

- A. Gracefully shut down vCenter using the vSphere Client.
- B. Enable CPU Hot Add on the vCenter virtual machine.
- C. Power on the vCenter Server Appliance using the vSphere Host Client.
- D. Enable CPU and Memory Hot Add on the vCenter virtual machine.
- E. Add additional CPU to the vCenter Server Appliance.
- F. Power on the vCenter Server Appliance using the vSphere Client.
- G. Enable Memory Not Add on the vCenter virtual machine.
- H. Add additional memory resources to the vCenter Server Appliance.

**Answer:** ACDE

#### Explanation:

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vcenterhost.doc/GUID-8E7C1D6D-8E> <https://docs.vmware.com/en/VMware->

vSphere/7.0/com.vmware.vsphere.vcenterhost.doc/GUID-3B41119A-127 [https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-38F4D574-ADE](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-38F4D574-ADE)

#### NEW QUESTION 5

An administrator is tasked with applying updates to a vSphere cluster running vSAN using vSphere Lifecycle Manager. Downtime to the ESXi hosts must be minimal while the work is completed.

The administrator has already completed the following steps and no errors have been returned:

- Downloaded all applicable software and created a new Image
- Attached the new Image to the cluster and run a compliance check against the Image for the cluster
- Ran a remediation pre-check for the cluster

Which two series of steps should the administrator perform to start the remediation of the cluster using the new image? (Choose two.)

- A. \* 1. Use the Remediate option in vSphere Lifecycle Manager to remediate all of the ESXi hosts in the cluster in parallel.\* 2. Allow vSphere Lifecycle Manager to automatically control maintenance mode on the ESXi hosts.
- B. \* 1. Place each of the ESXi hosts into maintenance mode manually.\* 2. Use the Stage option in vSphere Lifecycle Manager to stage the required software on all ESXi hosts one at a time.
- C. \* 1. Leave all ESXi hosts in the cluster operational.\* 2. Use the Stage All option in vSphere Lifecycle Manager to stage the required software onto all ESXi hosts one at a time.
- D. \* 1. Leave all ESXi hosts in the cluster operational\* 2. Use the Stage All option in vSphere Lifecycle Manager to stage the required software onto all ESXi hosts in the cluster in parallel.
- E. \* 1. Use the Remediate Option in vSphere Lifecycle Manager to remediate all of the ESXi hosts in the cluster in sequence.\* 2. Allow vSphere Lifecycle Manager to automatically control maintenance mode on the ESXi hosts.

**Answer:** AD

#### Explanation:

Option A and D are correct because they allow vSphere Lifecycle Manager to automatically control maintenance mode on the ESXi hosts and remediate them in parallel or in sequence. Option B and C are incorrect because they require manual intervention to place the hosts into maintenance mode or to stage the software on each host, which is not efficient or minimal downtime. References: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere-lifecycle-manager.doc/GUID-9F9E3F8>

#### NEW QUESTION 6

A VMkernel port is labelled PROD01 and uses the default TCP/IP stack. Currently, this VMkernel port is configured for supporting live virtual machine (VM) migrations.

Which configuration change should the administrator make to isolate live VM migration traffic from other network traffic?

- A. Remove PROD01 and create a new VMkernel port and set the TCP/IP stack to vSphere vMotion.
- B. Remove PROD01 and create a new VMkernel port with the TCP/IP stack set to provisioning.
- C. Create a new VMkernel port and set the TCP/IP stack to provisioning.
- D. Modify PROD01 by changing the TCP/IP stack to vSphere vMotion.

**Answer:** A

#### Explanation:

Select a TCP/IP stack from the list. Once you set a TCP/IP stack for the VMkernel adapter, you cannot change it later. If you select the vMotion or the Provisioning TCP/IP stack, you will be able to use only these stacks to handle vMotion or Provisioning traffic on the host. All VMkernel adapters for vMotion on the default TCP/IP stack are disabled for future vMotion sessions. If you set the Provisioning TCP/IP stack, VMkernel adapters on the default TCP/IP stack are disabled for operations that include Provisioning traffic, such as virtual machine cold migration, cloning, and snapshot migration. <https://docs.vmware.com/en/VMware-vSphere/8.0/vsphere-networking/GUID-AA3656B0-005A-40A0-A293-43>

#### NEW QUESTION 7

A vSphere cluster has the following configuration:

- Virtual machines (VMs) are running Production and Test workloads
- vSphere Distributed Resource Scheduler (DRS) is enabled
- There are no resource pools in the cluster

Performance monitoring data shows that the Production workload VMs are not receiving their fully allocated memory when the vSphere cluster is fully utilized.

A combination of which two steps could the administrator perform to ensure that the Production VMs are always guaranteed the full allocation of memory? (Choose two.)

- A. Assign a custom memory share value to the resource pool containing the Production VMs.
- B. Assign a memory reservation value to the resource pool containing the Production VMs.
- C. Create a parent resource pool for the Production VMs.
- D. Create a sibling resource pool for each of the Production and Test VMs.
- E. Create a child resource pool for the Test VMs.

**Answer:** BD

#### Explanation:

<https://docs.vmware.com/en/VMware-vSphere/8.0/vsphere-resource-management/GUID-60077B40-66FF-4625>

#### NEW QUESTION 8

An administrator manually configures a reference ESXi host that meets company security standards for vSphere environments. The administrator now needs to apply all of the security standards to every identically configured host across multiple vSphere clusters within a single VMware vCenter instance.

Which four steps would the administrator complete to meet this requirement? (Choose four.)

- A. Extract the host profile from the reference host
- B. Export the host profile from vCenter.
- C. Import host customization on the reference host.
- D. Attach the host profile to each cluster that requires the secure configuration.

- E. Check the compliance of each host against the host profile.
- F. Reset host customization on the reference host.
- G. Remediate all non-compliant hosts.

**Answer:** ADEG

**Explanation:**

To apply the security standards from a reference host to other hosts across multiple clusters, the administrator needs to extract a host profile from the reference host, which captures its configuration settings; attach the host profile to each cluster that requires the same configuration; check the compliance of each host against the host profile, which compares their settings; and remediate all non-compliant hosts, which applies the configuration settings from the host profile.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.security.doc/GUID-F8F105EC-A6EA>

**NEW QUESTION 9**

A vSphere cluster has the following vSphere Distributed Resource Scheduler (DRS) group configuration:

\* Virtual machine (VM) group named DB

\* Host groups named PROD11 and PROD55

The administrator wants to force the VMs in the DB group to run on the hosts in the PROD11 group. However, if all the hosts in PROD55.

Which VM/Host rule must the administrator create to ensure that these requirements are met?

- A. A preferential rule between the DB group and PROD11 group
- B. A preferential rule between the DB group and the PROD55 group
- C. A preferential rule between the DB group and the PROD55 group
- D. A required rule between the DB group and the PROD11 group

**Answer:** A

**Explanation:**

Option A is correct because it allows the administrator to create a preferential rule between the DB group and PROD11 group, which will force the VMs in the DB group to run on the hosts in the PROD11 group if possible, but will allow them to run on the hosts in PROD55 group if necessary. Option B is incorrect because it will create a preferential rule between the DB group and PROD55 group, which will force the VMs in the DB group to run on the hosts in PROD55 group if possible, which is not what the administrator wants. Option C is incorrect because it is the same as option B. Option D is incorrect because it will create a required rule between the DB group and PROD11 group, which will force the VMs in the DB group to run only on the hosts in PROD11 group and not allow them to run on the hosts in PROD55 group if needed. References: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-60077B40-66FF-4>

**NEW QUESTION 10**

An administrator is creating a content library to manage VM templates and ISO images. The administrator wants to password-protect the images and templates and share them with a remote site.

Which two tasks must the administration perform when creating the content library? (Choose two.)

- A. Publish the local content library.
- B. Enable the security policy.
- C. Create a subscribed content library.
- D. Select an NFS datastore.
- E. Enable authentication.

**Answer:** AE

**Explanation:**

To password-protect and share images and templates with a remote site, the administrator needs to publish the local content library, which makes it available for subscription by other vCenter Server instances; and enable authentication, which requires users to enter credentials when accessing the content library.

References:

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-FBEED81C-F9D](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-FBEED81C-F9D)

**NEW QUESTION 10**

An administrator needs to create affinity rules for the following vSphere cluster setup:

•The cluster contains two virtual machines (VMs) named app01 and app02.

•The cluster contains six hosts named esx11 through esx16.

•The app01 and app02 VMs run software that is licensed to run only on esx11, esx12, or esx13.

•vSphere Distributed Resource Scheduler (DRS) is configured

Which set of steps must the administrator perform to ensure that the licensing requirements are met for app01 and app02?

- A. \* 1. Add all the hosts to a host group.\* 2. Create a VM-VM anti-affinity rule for app01 and app02
- B. 1. Add the esx11 - esx13 hosts to a host group\* 2. Create a VM-VM affinity rule for app01 and app02
- C. \* 1 Add the VMs to a VM group and the esx11 - esx13 hosts to a host group.\* 2 Create a VM-Host required rule between the VM group and the host group.
- D. \* 1. Add the VMs to a VM group and the esx11 - esx13 hosts to a host group.\* 2. Create a VM-Host preferential rule between the VM group and the host group

**Answer:** C

**Explanation:**

Add the VMs to a VM group and the esx11 - esx13 hosts to a host group, which allows the administrator to group together virtual machines or hosts that share common characteristics or requirements.

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-0591F865-91B5-4>

**NEW QUESTION 11**

An administrator is planning to upgrade a VMware vCenter instance to version 8. It is currently integrated with the following solutions:

\* VMware Aria Automation

\* VMware Cloud Director

Which tool can the administrator use to run Interoperability reports before the upgrade process?

- A. sphere Update Manager
- B. VMware Aria Suite Lifecycle
- C. vCenter Server Update Planner
- D. vSphere Lifecycle Manager

**Answer: C**

**Explanation:**

The tool that can be used to run interoperability reports before upgrading a vCenter Server instance is vCenter Server Update Planner, which allows checking compatibility with other VMware products.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vcenter.upgrade.doc/GUID-C3FFBF62-D6BF>

**NEW QUESTION 13**

An administrator must gracefully restart a virtual machine (VM) through the vSphere Client but the option is greyed out. The administrator has full administrative access on VMware vCenter and all the objects available in vCenter, but has no access to log onto the operating system. Which action should the administrator take to meet the objective?

- A. Upgrade the virtual hardware
- B. Migrate the VM to another host
- C. Install VMware Tools
- D. Restart vCenter

**Answer: C**

**Explanation:**

Installing VMware Tools will enable the graceful restart option for the virtual machine, as well as other features such as time synchronization and guest OS customization.

References:

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-9A5093A5-C54](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-9A5093A5-C54)

**NEW QUESTION 18**

Which two datastore types store the components of a virtual machine as a set of objects? (Choose two.)

- A. VMware Virtual Machine File System (VMFS)
- B. VMware vSAN
- C. Network File System (NFS) 3
- D. vSphere Virtual Volumes (vVols)
- E. Network File System (NFS) 4.1

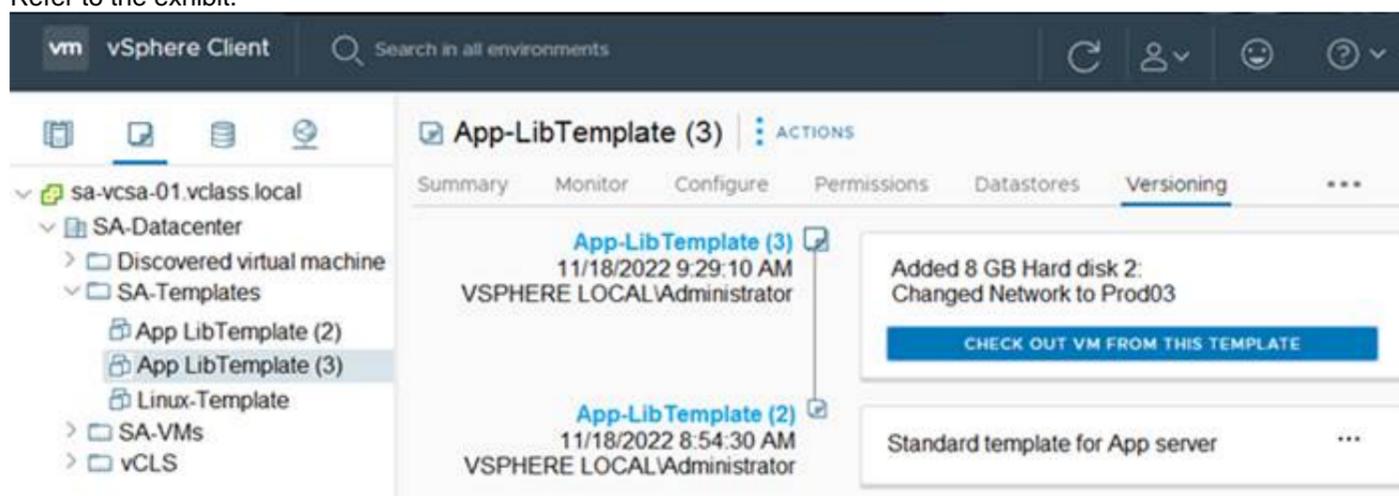
**Answer: BD**

**Explanation:**

Option B and D are correct because they are the datastore types that store the components of a virtual machine as a set of objects, which are logical containers that abstract physical storage resources. Option A, C and E are incorrect because they are the datastore types that store the components of a virtual machine as a set of files, which are stored on a file system that resides on a physical storage device. References: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-9F9E3F8C-0E2B-4>

**NEW QUESTION 23**

Refer to the exhibit.



Given the configuration shown in the exhibit, what should the administrator do if the latest VM template contains changes that are no longer needed?

- A. Delete App-LibTemplate (2)
- B. Revert to App-LibTemplate (2)
- C. Delete App-LibTemplate (3)
- D. Check out App-LibTemplate (3)

**Answer: B**

**Explanation:**

Deleting App-LibTemplate (3) will remove the changes that are no longer needed and revert to the previous version of the template.

References:

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-9A5093A5-C54](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-9A5093A5-C54)

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-D69B0279-CC9](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-D69B0279-CC9) If the latest VM template contains changes that are

no longer needed, the administrator should revert to the previous version of the template1.

Here are the steps to revert to a previous version of a template1:

- Navigate to the Versioning tab of the VM template.
- From the vertical timeline, navigate to the previous state of the VM template.
- Click the horizontal ellipsis icon (⋮), and select Revert to This Version.
- The Revert to Version dialog box opens. Enter a reason for the revert operation and click Revert. So, in this case, the correct answer is: B. Revert to App-LibTemplate (2)

This will make App-LibTemplate (2) the current VM template1. Please note that this operation will not delete App-LibTemplate (3), it will simply make App-LibTemplate (2) the current version1.

#### NEW QUESTION 27

An administrator has a requirement to revert a running virtual machine to a previous snapshot after a failed attempt to upgrade an application. When the administrator originally took the snapshot the following choices in the Take Snapshot dialog were made:

- Snapshot the virtual machine's memory = false
- Quiesce guest file system = false

What will be the result of the administrator selecting the 'Revert to Latest Snapshot?' option to return the virtual machine to a previous snapshot?

- A. The virtual machine will be restored to the parent snapshot in a powered on state
- B. The virtual machine will be restored to the parent snapshot in a powered off state.
- C. The virtual machine will be restored to the child snapshot in a powered off state
- D. The virtual machine will be restored to the child snapshot in a powered on state.

**Answer: B**

#### Explanation:

Powered on (does not include memory) Reverts to the parent snapshot and the virtual machine is powered off. Powered off (does not include memory) Reverts to the parent snapshot and the virtual machine is powered off. <https://docs.vmware.com/en/VMware-vSphere/8.0/vsphere-vm-administration/GUID-50BD0E64-75A6-4164-B>

#### NEW QUESTION 28

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)?

- 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: D**

#### Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-793013E2-0976-4>

#### NEW QUESTION 32

An administrator receives reports from the application team of poor performance of a virtual machine (VM). The administrator reviews the virtual machine and discovers that it has 20 snapshots that are over 12 months old.

What could the administrator do to improve the VM's performance?

- A. Inflate the base disk to make space for future snapshots.
- B. Revert to the latest snapshot.
- C. Consolidate all of the snapshots into the base VM.
- D. Identify and delete the largest delta .vmdk file.

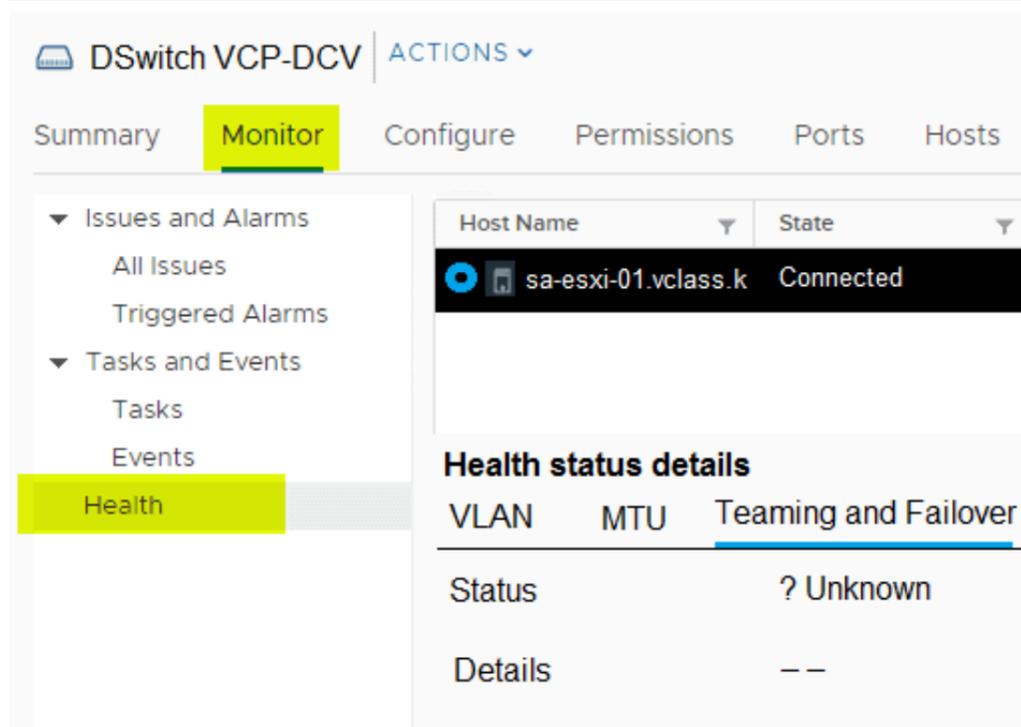
**Answer: C**

#### Explanation:

<https://4sysops.com/archives/performance-impact-of-snapshots-in-vmware-vsphere-7/#:~:text=As%20you%20k>

#### NEW QUESTION 36

Exhibit switch



The screenshot shows the vSphere Distributed Switch (DSwitch VCP-DCV) configuration page in the Monitor tab. The 'Hosts' section displays a table with columns for Host Name and State. One host, 'sa-esxi-01.vclass.k', is listed with a 'Connected' status. Below this, the 'Health status details' section is visible, showing a table with columns for VLAN, MTU, and Teaming and Failover. The 'Teaming and Failover' status is reported as '? Unknown'.

An administrator configures a distributed switch and adds the first VMware ESXi server to it. The administrator also performs the following activities:

- The administrator assigns two uplinks to the distributed switch.
  - The administrator enables uplink teaming.
- When attempting to perform a health check of the teaming policy, the health status of the Teaming and Failover reports as 'Unknown?', as seen in the exhibit.

What can the administrator changes in the distributed switch for the health status to report correctly?

- Add a minimum of three hosts with two uplinks each
- Add a minimum of two hosts with two uplinks each
- Add a minimum of three hosts with four uplinks each
- Add a minimum of two hosts with one uplink each

**Answer: B**

#### NEW QUESTION 40

An administrator is asked to segregate virtual machine (VM) traffic by VLAN on a vSphere standard switch. The following requirements must be met:

- VLAN ID on the switch port group must be 4095.
- VLAN tagging must be done at the VM level. Which tagging mode is required?

- External Switch Tagging (EST)
- None
- Virtual Guest Tagging (VGT)
- Virtual Switch Tagging (VST)

**Answer: C**

#### Explanation:

The tagging mode that is required is Virtual Guest Tagging (VGT), which allows VLAN tagging to be done at the VM level. VGT requires that the VLAN ID on the switch port group be set to 4095, which is a special value that indicates that packets from all VLANs are allowed to pass through. References:  
<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-D35A0A1C-B6>  
<https://kb.vmware.com/s/article/1003806>

#### NEW QUESTION 42

An administrator is tasked with looking into the disaster recovery options for protecting a database server using VMware vSphere Replication.

The following requirements must be met:

- The virtual machine must remain online during the protection.
- The virtual machine's snapshots must be used as part of the replication process. Which step must the administrator complete to accomplish this task?

- Configure the virtual machine storage policy.
- Enable guest OS VSS quiescing for this virtual machine.
- Perform a full initial synchronization of the source virtual machine to the target location.
- Configure network traffic isolation for vSphere Replication.

**Answer: C**

#### Explanation:

<https://docs.vmware.com/en/vSphere-Replication/8.7/com.vmware.vsphere.replication-admin.doc/GUID-C2493>

#### NEW QUESTION 46

An administrator is asked to configure a security policy at the port group level of a standard switch. The following requirements must be met:

- The security policy must apply to all virtual machines on portgroup-1.
- All traffic must be forwarded, regardless of the destination.

- Forged transmits set to reject
- MAC address changes set to accept
- Promiscuous mode set to reject
- Promiscuous mode set to accept

**Answer:** D

**Explanation:**

The security policy that must be configured at the port group level to allow all traffic to be forwarded regardless of the destination is promiscuous mode set to accept, which allows receiving all traffic on a virtual switch port.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-D5960C77-0D1>

**NEW QUESTION 47**

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