

VMware

Exam Questions 3V0-21.23

VMware vSphere 8.x Advanced Design



NEW QUESTION 1

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 2

An administrator is tasked with configuring an appropriate Single Sign-On (SSO) solution for VMware vCenter based on the following criteria:

- The solution should support the creation of Enhanced Link Mode groups.
- All user accounts are stored within a single Active Directory domain and the solution must support only this Active Directory domain as the identity source.
- All user account password and account lockout policies must be managed within the Active Directory domain.
- The solution should support token-based authentication.

Which SSO solution should the administrator choose based on the criteria?

- A. vCenter Identity Provider Federation with Active Directory Federation Services as the identity provider
- B. vCenter Single Sign-On with Active Directory over LDAP as the identity source
- C. vCenter Single Sign-On with Active Directory (Windows Integrated Authentication) as the identity source
- D. vCenter Identity Provider Federation with Active Directory over LDAP as the identity provider

Answer: A

Explanation:

„ In vCenter Server Identity Provider Federation, vCenter Server uses the OpenID Connect (OIDC) protocol to receive an identity token that authenticates the user with vCenter Server.“ Integrated Windows Authentication is deprecated since vSphere 7.0

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.authentication.doc/GUID-157188E3-53>

NEW QUESTION 3

An administrator needs to provide encryption for workloads within an existing vSphere cluster. The following requirements must be met:

- Workloads should be encrypted at rest.
- Encrypted workloads must automatically be encrypted during transit.
- Encryption should not require any specific hardware.

What should the administrator configure to meet these requirements?

- A. Encrypted vSphere vMotion
- B. Unified Extensible Firmware Interface (UEFI) Secure Boot
- C. Host Encryption
- D. VM Encryption

Answer: D

Explanation:

The feature that should be configured to provide encryption for workloads within an existing vSphere cluster without requiring any specific hardware is VM Encryption, which allows encrypting VMs at rest and during vMotion.

References:

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

NEW QUESTION 4

An administrator is performing maintenance activities and discovers that a Virtual Machine File System (VMFS) datastore has a lot more used capacity than expected. The datastore contains 10 virtual machines (VMs) and, when the administrator reviews the contents of the associated datastore, discovers that five virtual machines have a snapshot file (-delta.vmdk files) that has not been modified in over 12 months. The administrator checks the Snapshot Manager within the vSphere Client and confirms that there are no snapshots visible.

Which task should the administrator complete on the virtual machines to free up datastore space?

- A. Consolidate the snapshots for each VM.
- B. Inflate the disk files for each VM.
- C. Delete all snapshots for each VM.
- D. Storage vMotion each VM to another datastore.

Answer: A

Explanation:

Consolidating snapshots for each VM will merge any snapshot files that are not associated with a snapshot in Snapshot Manager into the base disk file and free up datastore space.

References:

https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-53F65726-A23B

The presence of redundant delta disks can adversely affect the virtual machine performance. You can combine such disks without violating a data dependency. After consolidation, redundant disks are removed, which improves the virtual machine performance and saves storage space.

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 vSphere cluster hosts a three-tier application. The cluster has 50% resources available. If a host in the cluster fails, the database server must be online before the application server, and the application server must be online before the Web server.

Which feature can be used to meet these requirements?

- A. Predictive DRS
- B. vSphere HA Orchestrated Restart
- C. vSphere HA Restart Priority
- D. Proactive HA

Answer: B

Explanation:

<https://www.vladan.fr/what-is-vmware-orchestrated-restart/>

NEW QUESTION 7

An administrator is investigating user logon failures for a VMware vCenter instance

Where can the administrator find log files containing information related to user login activities?

- A. On the vCenter Management Interface
- B. On the ESXi host using the Direct Console User Interface (®)
- C. On the vCenter Server Appliance
- D. In the vSphere Client when viewing the vCenter virtual machine

Answer: C

Explanation:

The administrator can find log files containing information related to user login activities on the vCenter Server Appliance, which is a preconfigured Linux-based virtual machine that runs all vCenter Server services. The log files are located in /var/log/vmware/vmware-vpx/vpxd.log and /var/log/vmware/sso/ssoAdminServer.log directories. References:

<https://docs.vmware.com/en/VMware-vSphere/8.0/com.vmware.vsphere.troubleshooting.doc/GUID-5F9A7E49>

NEW QUESTION 8

What is the role of vSphere Distributed Services Engine?

- A. Provide a live shadow Instance of a virtual machine (VM) that mirror, the primary VM to prevent data loss and downtime during outages
- B. Implement Quality of Service (QoS) on network traffic within a vSphere Distributed Switch
- C. Provide hardware accelerated data processing to boost infrastructure performance
- D. Redistribute virtual machines across vSphere cluster host affinity rules following host failures or during maintenance operations

Answer: C

Explanation:

The role of vSphere Distributed Services Engine is to provide hardware accelerated data processing to boost infrastructure performance by offloading network services from the CPU to the DPU.

References: <https://core.vmware.com/resource/whats-new-vsphere-8>

NEW QUESTION 9

An administrator needs to consolidate a number of physical servers by migrating the workloads to a software-defined data center solution. Which VMware solution should the administrator recommend?

- A. VMware Horizon
- B. VMware vSAN
- C. VMware vSphere
- D. VMware

Answer: C

Explanation:

Option C is correct because VMware vSphere is the solution that provides a software-defined data center platform that can consolidate physical servers by migrating the workloads to virtual machines. Option A is incorrect because VMware Horizon is a solution for virtual desktop infrastructure (VDI) and application delivery. Option B is incorrect because VMware vSAN is a solution for software-defined storage that is integrated with vSphere. Option D is incorrect because VMware NSX is a solution for software-defined networking that is integrated with vSphere. References: <https://www.vmware.com/products/vsphere.html>

NEW QUESTION 10

An administrator creates a new corporate virtual machine (VM) template every month to include all of the latest patches. The administrator needs to ensure that the new VM template is synchronized from the primary data center site (London) to two secondary data center sites (Tokyo and New York). The administrator is aware that datastore space is limited within the secondary data center sites. The administrator needs to ensure that the VM template is available in the secondary sites the first time a new virtual machine is requested.

Which four steps should the administrator take to meet these requirements? (Choose four.)

- A. Create a new published content library at the primary site.
- B. Add the virtual machine template to the subscribed content library.
- C. Create a new published content library in each secondary site.
- D. Create a new subscribed content library in each secondary site.
- E. Configure the subscribed content library to download content when needed.
- F. Configure each subscribed content library to download content immediately.
- G. Add the virtual machine template to the published content library.

Answer: ADEG

Explanation:

To meet the requirements of synchronizing and protecting images and templates with limited datastore space, the administrator needs to create a new published content library at the primary site, which makes it available for subscription by other vCenter Server instances; create a new subscribed content library in each secondary site, which allows accessing content from a published content library; configure the subscribed content library to download content when needed, which saves datastore space by only downloading content on demand; and add the virtual machine template to the published content library, which makes it available for other hosts to use.

References:

https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-FBEED81C-F9D

NEW QUESTION 10

An administrator has a host profile named Standard-Config. The administrator wants to change the other host profiles to use only the storage configuration settings that are defined in the Standard-Config host profile.

What should the administrator do to make this change?

- A. Export host customizations and import them to the other host profiles.
- B. Copy the storage settings from Standard-Config to all other host profiles.
- C. Duplicate the Standard-Config host profile and only modify the storage configuration settings.
- D. Export the Standard-Config host profile and attach it to the other hosts.

Answer: B

Explanation:

Option B is correct because it allows the administrator to copy the storage settings from Standard-Config host profile to all other host profiles without affecting other settings. Option A is incorrect because it only exports host customizations and not host profile settings. Option C is incorrect because it creates a new host profile instead of modifying the existing ones. Option D is incorrect because it attaches the Standard-Config host profile to the other hosts instead of changing their host profiles. References: <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.hostprofiles.doc/GUID-F1A1D1D0-D6>

NEW QUESTION 14

An administrator plans to bring VMware vCenter offline in order to perform hardware maintenance on the host where the vCenter Server Appliance is running. Which vSphere feature must be configured to ensure that vCenter users experience minimal downtime?

- A. vSphere Distributed Resource Scheduler
- B. Hybrid Linked Mode
- C. vCenter Server High Availability
- D. Enhanced Linked Mode

Answer: C

Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-4A626993-A829-495>

NEW QUESTION 16

An administrator is tasked with migrating a single virtual machine (VM) from an existing VMware vCenter to a secure environment where corporate security policy requires that all VMs be encrypted. The secure environment consists of a dedicated vCenter instance with a 4-node vSphere cluster and already contains a number of encrypted VMs.

Which two steps must the administrator take to ensure the migration is a success? (Choose two.)

- A. Ensure that the source and destination vCenter instances share the same Key Management Server(KMS).
- B. Ensure that Encrypted vMotion Is turned off for the VM.
- C. Ensure that the VM is encrypted before attempting the migration.
- D. Ensure that the VM is powered off before attempting the migration.
- E. Ensure that the source and destination vCenter Servers have a different Key Management Server (KMS).

Answer: AC

Explanation:

To ensure a successful migration of an encrypted VM to a secure environment, the administrator needs to ensure that the source and destination vCenter instances share the same Key Management Server (KMS), which provides encryption keys for both environments; and ensure that the VM is encrypted before attempting the migration, which allows preserving its encryption status during vMotion.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.security.doc/GUID-F8F105EC-A6EA-https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.security.doc/GUID-C3FFBF62-D6BF>

NEW QUESTION 17

What is the minimum network throughput in Gb/s for vSAN using the Express Storage Architecture (ESA)?

- A. 50
- B. 25
- C. 1
- D. 10

Answer: D

Explanation:

<https://core.vmware.com/resource/vmware-vsan-design-guide#:~:text=Summary%20of%20Network%20Design>

NEW QUESTION 19

A vSphere environment is experiencing intermittent short bursts of CPU contention, causing brief production outages for some of the virtual machines (VMs). To understand the cause of the issue, the administrator wants to observe near real-time statistics for all VMs.

Which two vSphere reporting tools could the administrator use? (Choose two.)

- A. Advanced Performance Charts
- B. esxcli
- C. resxtp
- D. Overview Performance Charts
- E. esxtp

Answer: AE

Explanation:

Advanced Performance Charts and esxtp are both vSphere reporting tools that can be used to observe near real-time statistics for all VMs. Advanced Performance Charts provides a graphical view of performance data, while esxtp is a command-line tool that provides more detailed information.

NEW QUESTION 23

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

NEW QUESTION 28

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 30

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?

- A. Configure the virtual machine storage policy.
- B. Enable guest OS VSS quiescing for this virtual machine.
- C. Perform a full initial synchronization of the source virtual machine to the target location.
- D. 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 33

An administrator has been notified that a number of hosts are not compliant with the company policy for time synchronization.

The relevant portion of the policy states:

- All physical servers must synchronize time with an external time source that is accurate to the microsecond. Which step should the administrator take to ensure compliance with the policy?

- A. Ensure that each vCenter Server Appliance is configured to use a Network Time Protocol (NTP) source.
- B. Ensure that each ESXi host is configured to use a Precision Time Protocol (PTP) source.
- C. Ensure that each ESXi host is configured to use a Network Time Protocol (NTP) source.
- D. Ensure that each vCenter Server Appliance is configured to use a Precision Time Protocol (PTP) source.

Answer: B

Explanation:

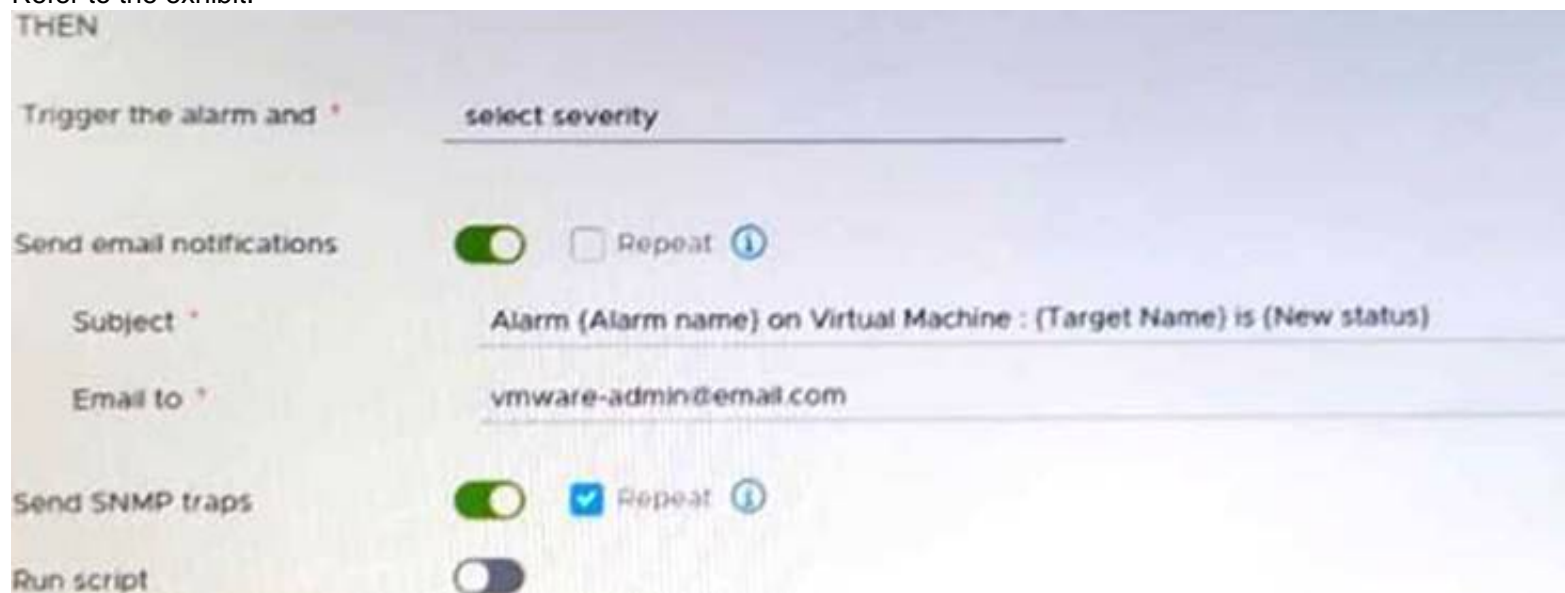
To comply with the policy of synchronizing time with an external source that is accurate to the microsecond, the administrator needs to ensure that each ESXi host is configured to use a PTP source, which provides higher accuracy than NTP.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vcenterhost.doc/GUID-F7DF1DD3-E3>

NEW QUESTION 37

Refer to the exhibit.



After updating a predefined alarm on VMware vCenter, 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 by the administrator to resolve this issue?

- A. In the ESXi host system config
- B. In the alarm rule definitions
- C. In the vCenter settings in the vSphere Client
- D. in the vCenter Management Interface

Answer: C

Explanation:

Option C is correct because it allows the administrator to configure the mail server settings in the vCenter settings in the vSphere Client, which are required for sending email notifications for alarms. Option A is incorrect because it configures the mail server settings on an ESXi host system, which are not used for sending email notifications for alarms. Option B is incorrect because it configures the alarm rule definitions, which are already enabled in the exhibit. Option D is incorrect because it configures the vCenter Management Interface, which is not used for sending email notifications for alarms. References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.monitoring.doc/GUID-A2A4371A-B88>

NEW QUESTION 40

What are two uses cases for VMware Tools? (Choose two.)

- A. Time synchronization with an NTP server
- B. Direct deployment of the Aria Automation Config minion
- C. Share folders between ESXi hosts and guest OS file systems
- D. Ability to shut down a virtual machine remotely
- E. Support for unsupported network device drivers

Answer: CD

Explanation:

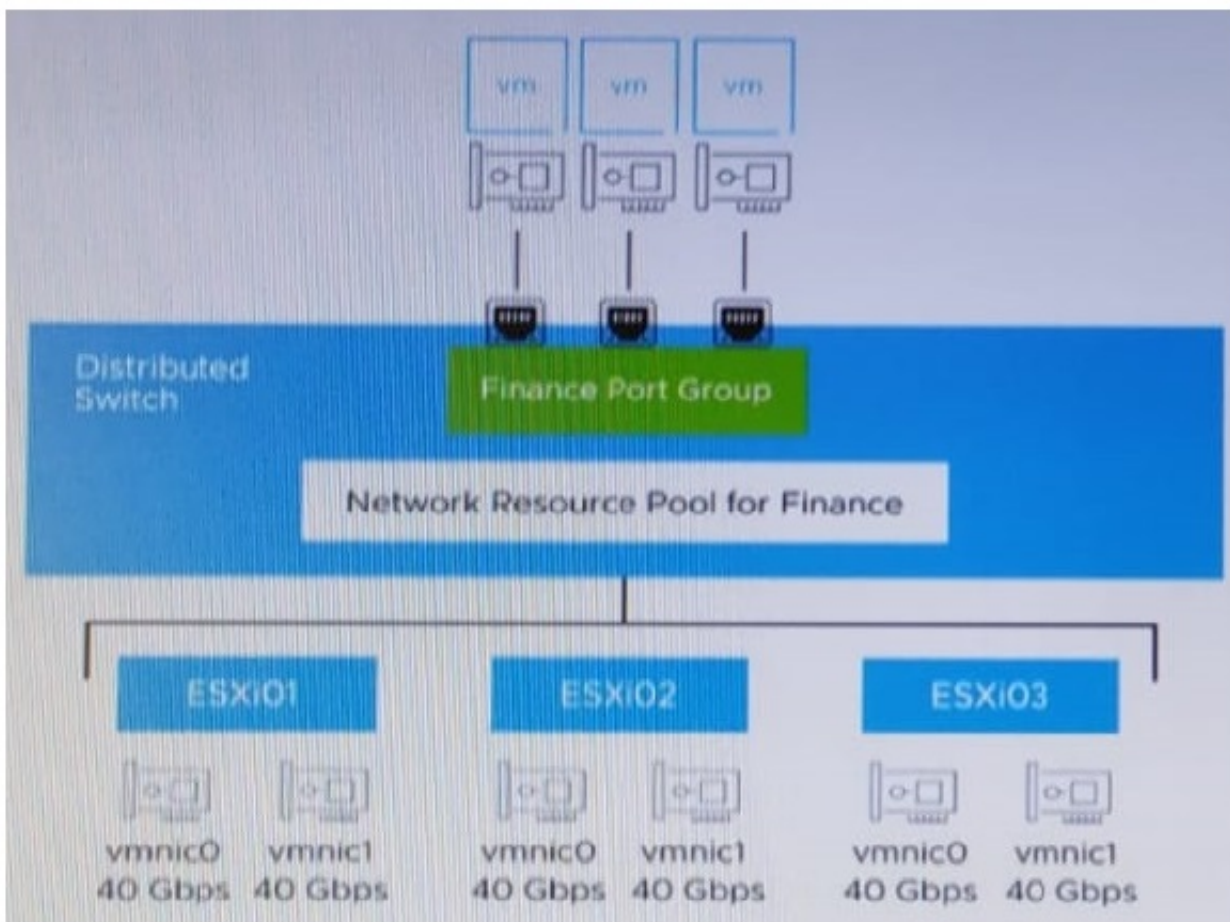
<https://www.stevenbright.com/2022/03/deploy-salt-minions-automatically-using-vmware-tools/>

Two use cases for VMware Tools are direct deployment of the Aria Automation Config minion and ability to shut down a virtual machine remotely. Direct deployment of the Aria Automation Config minion is a feature that allows the administrator to deploy a configuration management agent to a virtual machine using VMware Tools. This feature enables automation and orchestration of virtual machine configuration tasks. Ability to shut down a virtual machine remotely is a feature that allows the administrator to gracefully power off a virtual machine from the vSphere Client or other VMware products. This feature requires VMware Tools to be installed and running on the guest operating system. References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vmwaretools.doc/GUID-28C39A00-74>

NEW QUESTION 42

Refer to the exhibit.



An administrator set up the following configuration:

- The distributed switch has three ESXi hosts, and each host has two 40 Gbps NICs.
- The amount of bandwidth reserved for virtual machine (VM) traffic is 6 Gbps.

The administrator wants to guarantee that VMs in the Finance distributed port group can access 50 percent of the available reserved bandwidth for VM traffic. k Given this scenario, what should the size (in Gbps) of the Finance network resource pool be?

- A. 18
- B. 80
- C. 36
- D. 120

Answer: A

Explanation:

The size of the Finance network resource pool should be 50 percent of the reserved bandwidth for VM traffic, which is 6 Gbps x 3 hosts = 18 Gbps.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-9F1D4E96-339>

<https://docs.vmware.com/en/VMware-vSphere/8.0/vsphere-networking/GUID-29A96AB2-AEBF-420E-BDD6>

NEW QUESTION 45

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.

- A. Forged transmits set to reject
- B. MAC address changes set to accept
- C. Promiscuous mode set to reject
- D. 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

An administrator wants to create virtual machine (VM) templates and store them in a content library. The administrator would like to use the content library to manage different versions of these templates so that reverting to an earlier version is an option.

How should the administrator create these templates?

- A. Select a VM in the vCenter inventory.Clone the VM to the content library as a VM template type.
- B. Select a VM template in the vCenter inventor
- C. Clone the template to the content library.
- D. Export a VM in the vCenter inventory to an OVF templat
- E. Import the OVF template into the content library.
- F. Convert a VM to a template in the vCenter inventory.Clone the template to the content library.

Answer: A

Explanation:

Option A is correct because it allows the administrator to clone a VM to the content library as a VM template type, which can be used to create and manage different versions of these templates in the content library. Option B is incorrect because it requires the administrator to convert a VM to a template in the vCenter inventory first, which is an extra step. Option C is incorrect because it requires the administrator to export a VM to an OVF template and import it into the content library, which are extra steps. Option D is incorrect because it requires the administrator to convert a VM to a template in the vCenter inventory and clone it to the content library, which are extra steps. References:

https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-9F9E3F8C-0E2

NEW QUESTION 50

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