

# VMware

## Exam Questions 2V0-21.23

VMware vSphere 8.x Professional



### NEW QUESTION 1

Which three features are only available when using vSphere Distributed Switches instead of vSphere Standard Switches? (Choose three.)

- A. 802.1Q tagging
- B. Port mirroring
- C. Netflow
- D. Configuration backup and restore
- E. IPv6 support
- F. IPv4 support

**Answer:** BCD

#### Explanation:

Three features that are only available when using vSphere Distributed Switches instead of vSphere Standard Switches are port mirroring, which allows monitoring network traffic on a virtual switch port; Netflow, which allows collecting IP traffic information from a virtual switch; and configuration backup and restore, which allows saving and restoring distributed switch settings.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-D5960C77-0D1> <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-A59628EA-985> <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-E9EB9D18-692>

### NEW QUESTION 2

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 3

An administrator is deploying a new all flash vSAN cluster based on the vSAN Original Storage Architecture (OSA).

What is the minimum supported network throughput in Gb/s for each host?

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

**Answer:** B

#### Explanation:

The minimum supported network throughput in Gb/s for each host in an all flash vSAN cluster based on the vSAN Original Storage Architecture (OSA) is 10.

References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vsan-planning.doc/GUID-FCEA0CDD>

vSAN Express Storage Architecture (ESA) are only supported with 25Gbps and higher connection speeds.

ESA ReadyNodes configured for vSAN ESA will be configured with 25/50/100Gbps NICs. vSAN OSA

all-flash configurations are only supported with a 10Gb or higher connections. One reason for this is that the improved performance with an all-flash configuration may consume more network bandwidth between the hosts to gain higher throughput. <https://core.vmware.com/resource/vmware-vsan-design-guide#sec6815-sub3>

### NEW QUESTION 4

If a distributed switch uses the "Route based on physical NIC load" load balancing algorithm, what does the mean send or receive utilization of an uplink need to exceed for the flow of traffic to move to the second uplink?

- A. 75 percent of the capacity over a 30 second period
- B. 60 percent of the capacity over a 30 second period
- C. 60 percent of the capacity over a 40 second period
- D. 75 percent of the capacity over a 40 second period

**Answer:** A

#### Explanation:

The distributed switch calculates uplinks for virtual machines by taking their port ID and the number of uplinks in the NIC team. The distributed switch tests the uplinks every 30 seconds, and if their load exceeds 75 percent of usage, the port ID of the virtual machine with the highest I/O is moved to a different uplink.

<https://docs.vmware.com/en/VMware-vSphere/8.0/vsphere-networking/GUID-959E1CFE-2AE4-4A67-B4D4-2>

### NEW QUESTION 5

A combination of which two components of the software-defined data center (SDDC) are responsible for the initial abstraction of CPU, memory, disk, and network resources and their subsequent management? (Choose two.)

- A. VMware ESXi
- B. VMware vCenter Cloud Gateway
- C. VMware Ana Suite Lifecycle
- D. VMware vCenter
- E. VMware Ana Operations

**Answer:** AD

**Explanation:**

VMware ESXi and VMware vCenter are the two components of the software-defined data center (SDDC) that are responsible for the initial abstraction of CPU, memory, disk, and network resources and their subsequent management<sup>1</sup>. VMware ESXi is the virtualization platform where you create and run virtual machines and virtual appliances<sup>2</sup>. VMware vCenter is the service through which you manage multiple hosts connected in a network and pool host resources<sup>2</sup>. These two components are part of the SDDC architecture that enables a fully automated, zero-downtime infrastructure for any application, and any hardware, now and in the future<sup>3</sup>.

**NEW QUESTION 6**

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 7**

An administrator wants to use tag-based placement rules on their virtual machine disks using VMware vCenter. Which option would allow the administrator to achieve this?

- A. Storage Policy Based Management
- B. Storage I/O Control
- C. vSphere Storage APIs for Storage Awareness (VASA)
- D. vSphere Distributed Resource Scheduler (DRS)

**Answer:** A

**Explanation:**

<https://vnote42.net/2020/01/15/vcenter-tag-based-vm-placement/>

**NEW QUESTION 8**

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 9**

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 10

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 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**

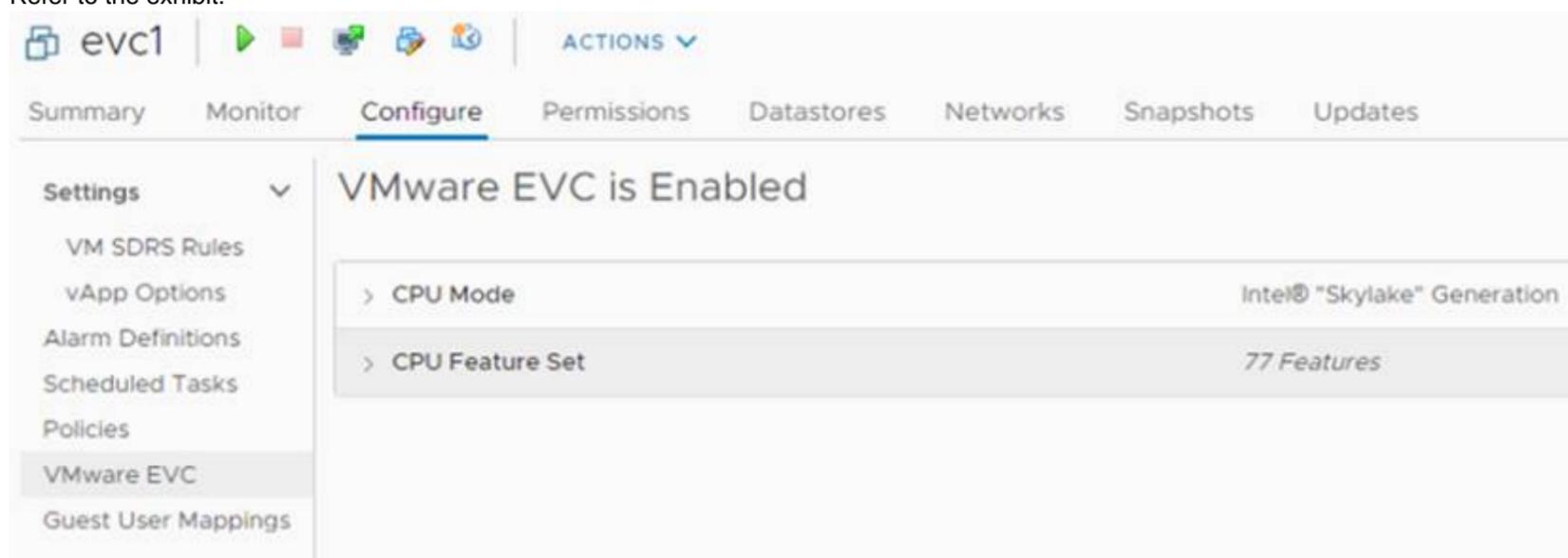
#### Explanation:

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.resgmt.doc/GUID-0591F865-91B5-4>

#### NEW QUESTION 11

Refer to the exhibit.



An administrator is tasked with adding new capacity to an existing software-defined data center (SDDC).

- The SDDC currently hosts two vSphere clusters (ClusterA and ClusterB) with different CPU compatibilities.
- vSphere vMotion and vSphere Distributed Resource Scheduler (DRS) are currently in use in the SDDC.
- The new capacity will be implemented by provisioning four ESXi hosts running a new generation of Intel Skylake CPUs.
- All workload virtual machines (VMs) must support live migration to any cluster in the SDDC.

The administrator noticed the running critical "ever virtual machine (VM) shown in the exhibit is not migrating using vSphere vMotion to the original Clusters A or B. Which three steps must the administrator take to support this functionality? (Choose three.)

- A. Power on the VM.
- B. Disable the Enhanced vMotion Compatibility (EVC) on the VM.
- C. Reboot the VM.
- D. Configure the Enhanced vMotion Compatibility (EVC) on vSphere Cluster A and B to support Intel Skylake.
- E. Power off the VM.

F. Configure the Enhanced vMotion Compatibility (EVC) on the VM to Intel Skylake.

**Answer:** ADE

#### NEW QUESTION 14

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 19

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 23

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 26

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 31**

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 36**

An administrator has configured Storage I/O Control (SIOC) on a Virtual Machine File System (VMFS) datastore.

- The datastore supports 30,000 IOPS
- Storage I/O Control has been set to manual
- Storage I/O Control is triggered when latency hits 30 ms
- The datastore contains 3 virtual machines (VMs)
- A gold tier VM
- A silver tier VM
- A bronze tier VM

Assuming the datastore latency does not exceed 29ms, what is the maximum number of IOPS the bronze tier VM is entitled to?

- A. A.-30,000
- B. 20,000
- C. 10,000
- D. 5,000

**Answer: A**

**Explanation:**

The bronze tier VM is entitled to 30,000 IOPS, which is the maximum number of IOPS that the datastore supports. Storage I/O Control (SIOC) does not limit the IOPS of any VM unless the datastore latency exceeds the threshold, which is 30 ms in this case. Therefore, as long as the datastore latency is below 29 ms, the bronze tier VM can use up to 30,000 IOPS. References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.resmgmt.doc/GUID-7686FEC3-1FAC>

**NEW QUESTION 38**

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**

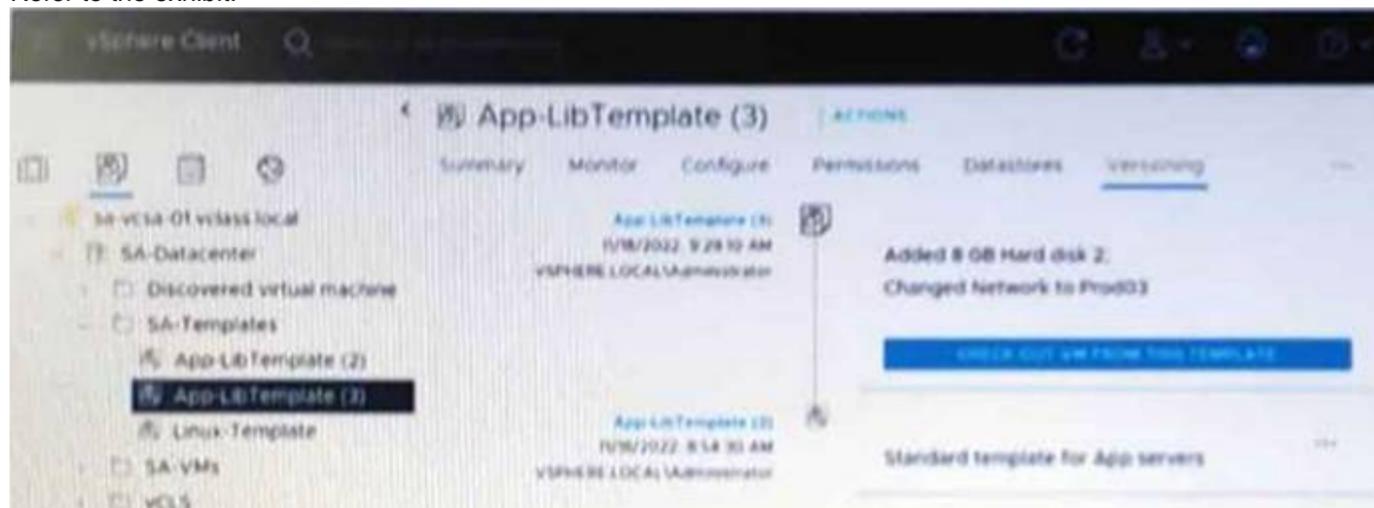
**Explanation:**

„ 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 41**

Refer to the exhibit.



Given the configuration shown in the exhibit, what must the administrator do to delete only the latest version of the template?

- A. Delete App-LibTemplate (3) from the SA-Templates folder.
- B. In the SA-template folder, rename App-Libtemplate (2) to App-LibTemplate
- C. Check out AppLibTemplate (3) and delete the template from the SA-Templates folder.

D. Revert to APP-LibTemplate (2) and delete App-LibTemplate (3).

**Answer:** D

**Explanation:**

Option D is correct because it allows the administrator to delete only the latest version of the template by reverting to the previous version and then deleting the current version. Option A is incorrect because it deletes the entire template and not just the latest version. Option B is incorrect because it renames the previous version to the current version and does not delete anything. Option C is incorrect because it checks out the latest version and deletes it from the folder, but not from the library. References:

[https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm\\_admin.doc/GUID-9F9E3F8C-0E2](https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vm_admin.doc/GUID-9F9E3F8C-0E2)

**NEW QUESTION 46**

An administrator has Windows virtual machines (VMs) and VMware Tools is installed in each VM. The administrator performs a status check of VMware Tools using vSphere Lifecycle Manager.

What is the VMware Tools status for the Windows VMs if the version of VMware Tools has a known problem and must be immediately upgraded?

- A. Version Unsupported
- B. Guest Managed
- C. Unknown
- D. Upgrade Available

**Answer:** A

**Explanation:**

If VMware Tools has a known problem, the tools status will be Version Unsupported <https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere-lifecycle-manager.doc/GUID-12649CB>

**NEW QUESTION 50**

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 51**

An administrator is tasked with adding two additional hosts into an existing production vSphere cluster to support the need for additional capacity.

The vSphere cluster currently has four identically configured ESXi hosts (esx01, esx02, esx03 and esx04) that utilize Intel Skylake-based CPUs. The two new hosts (esx05 and esx06) are configured identically in terms of memory and storage to the existing hosts: but utilize Intel Ice Lake-based CPUs.

The administrator must ensure that:

- Any virtual machine migrates to any of the six ESXi hosts running in the cluster.
- There is no virtual machine downtime during the process of adding the new hosts. Which step should the administrator take to meet these requirements?

- A. Create a new vSphere cluster with Enhanced vMotion Compatibility (EVC) enabled and move all hosts into the new cluster
- B. Create a new vSphere cluster and move only three hosts into the new cluster.
- C. Configure Enhanced vMotion Compatibility (EVC) mode on the existing cluster and add the two new hosts into the cluster.
- D. Create a new vSphere cluster with vSphere High Availability (HA) enabled and move all hosts into the new cluster

**Answer:** C

**Explanation:**

The step that the administrator should take to meet these requirements is to configure Enhanced vMotion Compatibility (EVC) mode on the existing cluster and add the two new hosts into the cluster. EVC mode allows migration of virtual machines between different generations of CPUs by masking unsupported processor features. EVC mode can be enabled on an existing cluster without affecting powered-on virtual machines. References:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.vcenterhost.doc/GUID-9F444D9B-44A>

<https://blogs.vmware.com/vsphere/2019/06/enhanced-vmotion-compatibility-etc-explained.html>

**NEW QUESTION 55**

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