

Exam Questions 3V0-21.21

Advanced Design VMware vSphere 7.x

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NEW QUESTION 1

Which requirement would be classified as a functional requirement within the design documentation?

- A. The system must perform virtual machine backups through an API.
- B. Virtual machines must be patched within one month of the patch release date.
- C. Virtual machines must be restarted within 30 minutes of a host failure.
- D. The system must be able to scale to support 500 concurrent virtual machines.

Answer: C

NEW QUESTION 2

An architect is designing a vSphere environment for a customer and learns that the customer has:

- > A single vSphere cluster
- > Two storage arrays with different RAID capabilities

Which two design decisions should the architect make to maximize data availability and data performance for this customer? (Choose two.)

- A. Use Storage DRS.
- B. Use VMDK anti-affinity rules.
- C. Use multiple datastores for heartbeat.
- D. Use a minimum of three storage arrays.
- E. Use VM to host DRS rules.

Answer: AC

NEW QUESTION 3

An architect is reviewing a physical storage design. The customer has specified that storage DRS will be used for ease of operational management for capacity and performance.

Which recommendation should the architect include in the design?

- A. Create smaller datastores to balance space with Storage DRS
- B. Use a larger number of storage profiles (varied disk speeds and RAID levels) to improve performance
- C. Create larger datastores to balance space with Storage DRS
- D. Create more datastores within each Storage DRS cluster to balance space and performance

Answer: D

NEW QUESTION 4

An architect is designing a new vSphere platform for a customer to meet the following requirements:

- > The platform must be deployed into five physically separate sites.
- > The sites are spread across multiple regions.
- > Some sites require more than one vCenter Server.
- > The platform must provide an administrator with the ability to access virtual infrastructure components across all sites from a single management tool instance.

Which single sign-on (SSO) design recommendation will meet these requirements?

- A. Use an SSO domain across all vCenter Server instances
- B. Use an SSO domain per region
- C. Use an SSO domain per vCenter Server instance
- D. Use an SSO domain per site

Answer: C

NEW QUESTION 5

During a transformation project kick-off meeting, an architect highlights specific areas on which to focus while developing the new conceptual design.

Which two of the listed statements are business requirements? (Choose two.)

- A. The project should use the existing storage devices within the data center
- B. Sites must support a network latency of less than 12 ms round-trip time (RTT)
- C. The solution must allow data replication between sites
- D. There is no budget specifically assigned for disaster recovery
- E. There must not be a single point of failure for the virtual infrastructure

Answer: CE

NEW QUESTION 6

An architect is designing the expansion of an existing vSphere 7 environment. The customer is requesting a design for a new cluster to support the anticipated future business growth. The requirements specified for the existing environment design must be considered when designing the new cluster.

The existing design has the following requirements:

- > REQ01 The environment has an availability target of 99.5% for all infrastructure.
- > REQ02 The recovery time objective (RTO) for Tier 1 virtual machines is one hour.
- > REQ03 Windows and Linux virtual machines must reside on separate clusters.
- > REQ04 Access to the management cluster within the environment must be controlled. Which of the listed requirements would be classified as a functional requirement?

- A. The environment has an availability target of 99.5% for all infrastructure
- B. The recovery time objective (RTO) for Tier 1 virtual machines is one hour
- C. Access to the management cluster within the environment must be controlled
- D. Windows and Linux virtual machines must reside on separate clusters

Answer: D

NEW QUESTION 7

An architect will be taking over control of a former Linux server fleet and repurposing the hardware into a new vSphere cluster. The current environment is already connected to the network but the hosts do not have any local disks. Since the fleet hardware is uniform, the architect can use a single ESXi image. All hosts within the cluster have the same CPU and memory capacity.

Which ESXi deployment method should the architect use?

- A. Stateless cached vSphere Auto Deploy
- B. Stateless vSphere Auto Deploy
- C. Manual install of each ESXi host with an image from USB
- D. Stateful vSphere Auto Deploy

Answer: B

NEW QUESTION 8

An architect is designing a new greenfield environment that will install ESXi on local disks. There is a requirement to streamline initial and future installations of ESXi hosts.

Which configuration option should the architect recommend for installing ESXi hosts to meet these requirements?

- A. Installation with kick start script
- B. Auto Deploy with stateless caching mode
- C. Manual installation using boot from SAN
- D. Auto Deploy with stateful install mode

Answer: D

NEW QUESTION 9

An architect is designing a new vSphere platform to meet a list of requirements from the security team. Which two requirements would be classified as non-functional requirements? (Choose two.)

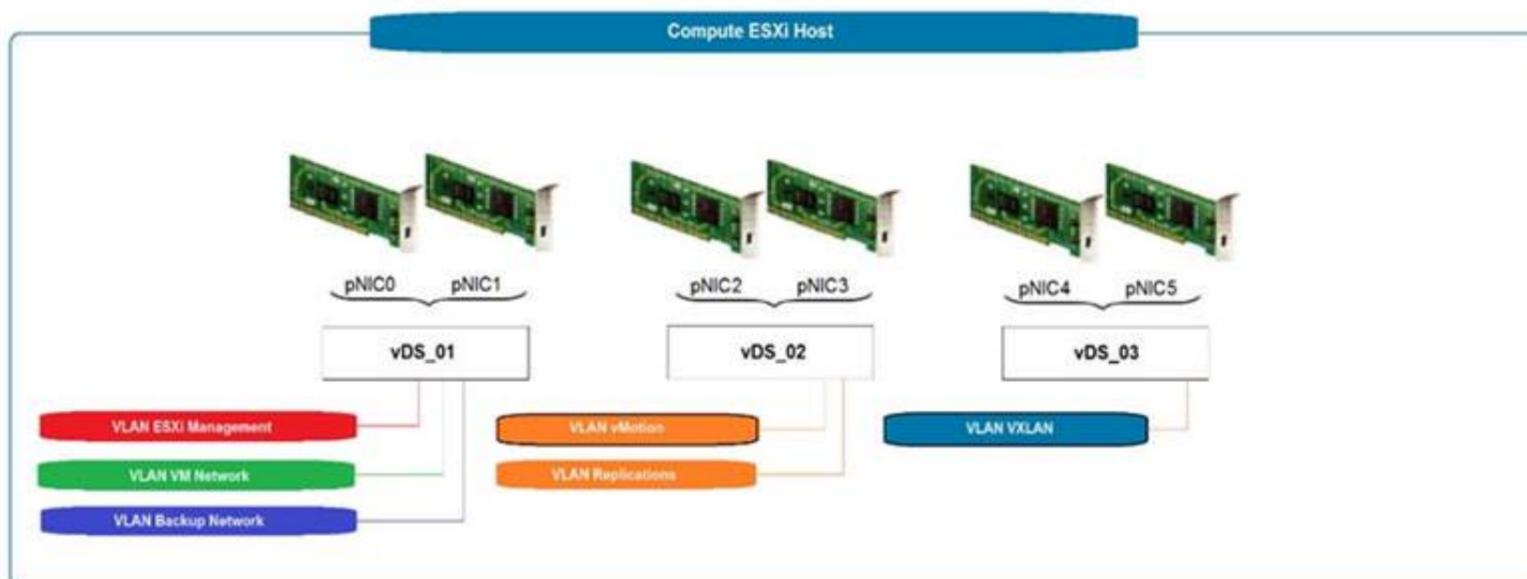
- A. Migration of virtual machines between hosts must be encrypted
- B. Log information must be verbose to support incident resolution
- C. Critical events generated within the platform must be logged to an external Syslog service
- D. Data integrity must be ensured
- E. A common content library must be maintained across all data centers

Answer: CD

NEW QUESTION 10

Refer to the exhibit.

During a requirements gathering workshop, the architect shares the following diagram:



What should the architect recommend for guaranteed throughput for each service?

- A. Use explicit failover order with pNIC0 as Active for ESXi Management and VM Network Use explicit failover order with pNIC1 as Active for backup network Use explicit failover order with pNIC2 as Active for vMotion Use explicit failover order with pNIC3 as Active for replication
- B. Use the Route Based on IP Hash for ESXi management and VM network Use the Route Based on IP Hash for backup network Use the Route Based on the Originating Virtual Port for vMotion Use failover with pNIC3 as Active for replication
- C. Create a link aggregation group (LAG) for vDS_01 Use the Route Based on Physical NIC Load for vMotion Use the Route Based on Physical NIC Load for replication
- D. Use the Route Based on IP Hash for ESXi management and VM network Use failover with pNIC1 as Active for backup network Create a link aggregation group (LAG) for vDS_02

Answer: A

NEW QUESTION 10

An architect is designing a new backup solution for a vSphere platform that has been recently upgraded to vSphere 7. The architect wants the backup solution to perform the following:

- Full virtual machine image backup and restore
- Incremental virtual machine image backup and restore
- File level backup and restore within both Windows and Linux virtual machines
- LAN-free backup

Which functional requirement should the architect include in the design of the new backup solution?

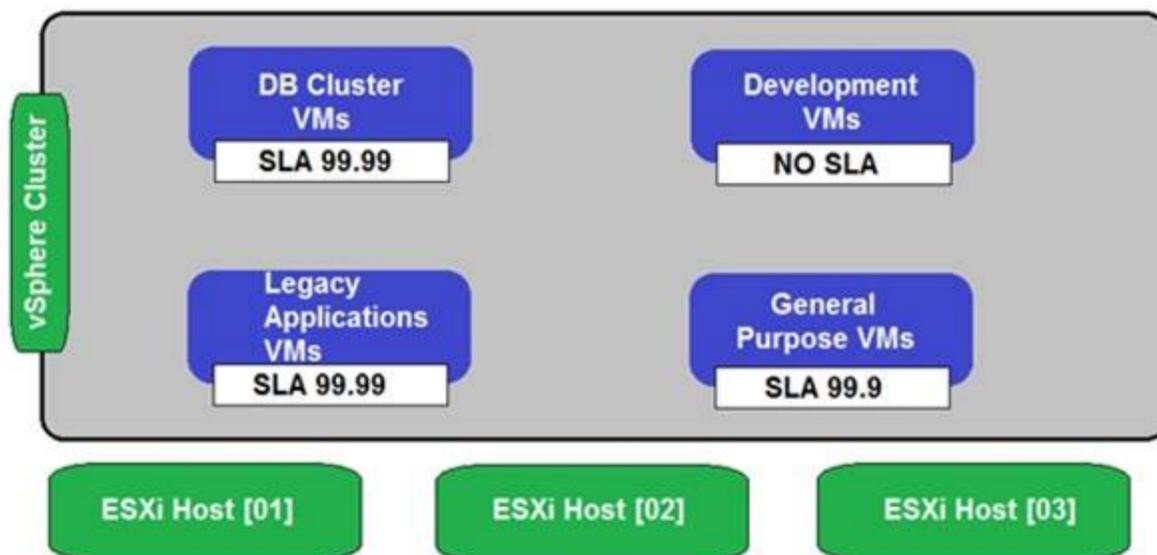
- A. The backup solution must leverage the VMware Consolidated Backup (VCB) framework.
- B. The backup solution must leverage virtual machine snapshots.
- C. The backup solution must leverage VMware vSphere Storage APIs - Data Protection.
- D. The backup solution must leverage VMware vStorage APIs for Data Protection (VADP).

Answer: C

NEW QUESTION 12

Refer to the exhibit.

During a requirements gathering workshop, a customer shares the following diagram regarding their availability service-level agreements (SLAs):



The customer states that there is no application level availability for legacy applications.

Which recommendation could the architect make to meet the customer's high availability requirements for the legacy applications virtual machines?

- A. Enable vSphere HA and add a VM Override with VM Restart Priority set to Disabled
- B. Enable Fault Tolerance
- C. Achieve application availability with snapshots
- D. Enable vSphere HA and add a VM Override with VM Restart Priority set to Lowest

Answer: D

NEW QUESTION 14

A Cloud Service Provider wants to introduce backup as a service for a customer's vSphere-based virtual machines.

The following information is noted:

- All top-of-rack (ToR) switches are 10 GbE and fully populated
- The backup traffic must not impact existing services

Which two recommendations should the architect make to help the customer incorporate the service? (Choose two.)

- A. Enable and tag traffic on the backup distributed port group
- B. Add a new two-port 10 GbE NIC per ESXi host
- C. Replace the existing NIC with a two-port 25 GbE NIC per ESXi host
- D. Match the Class of Service (CoS) and Differentiated Services Code Point (DSCP) values to the physical network
- E. Create a new virtual switch using the 1 GbE uplinks

Answer: AB

NEW QUESTION 18

An architect is tasked with designing a greenfield VMware software-defined data center (SDDC) solution that will be used to deliver a private cloud service for a customer.

During the initial meeting with the service owner and business sponsor, the customer has provided the following information to help inform the design:

- The solution must initially support the concurrent running of 300 production and 600 development virtual machines.
- The production environment should be delivered across two geographically dispersed data centers. The development environment must be vSphere-based but does not have to be deployed on-premises.
- The two data centers are connected to each other through multiple diversely routed, high bandwidth and low latency links.
- The customer's server hardware standard document states that all virtual infrastructure hosts must be based on blade architecture only.
- The service owner has said that is important to ensure that neither the availability target of 99.5% nor the resource capacity is affected when the operations team completes maintenance activities, such as the monthly software patching and ad-hoc hardware break/fix.
- All virtual machine backups must be completed using the existing backup service. The recovery time objective (RTO) for the service is four hours.

➤ The recovery point objective (RPO) of the service is 24 hours.
 Given the information from the customer, which two would be classified as assumptions within the design? (Choose two.)

- A. The backup service will store data in a secure facility
- B. The backup service has sufficient capacity for the new requirements
- C. The customer will update their hardware standard to support rack mount servers
- D. All virtual machines will be deployed with the same resource profile for production and development
- E. The clusters will have a minimum redundancy of N+1

Answer: BE

NEW QUESTION 23

An architect is designing storage for a new vSphere environment to meet the following requirements: ➤ Asynchronous replication is required between two sites.

- The impact on the storage layer should not impact the performance of the compute layer.
- Each application tier will require different replication attributes.
- Virtual machine live migration across compute and storage must be supported.
- Virtual machine aware back up will be leveraged.
- Operational management overhead should be minimized.
- Operational automation should be supported.

Which storage design recommendations would meet the requirements?

- A. Two new Fibre Channel storage arrays will be deployed, one at either site. Each application tier will be initially provisioned a new LU
- B. Data replication will be offloaded to the new arrays.
- C. Two new vSphere clusters enabled with vSAN will be deployed, one at either site
- D. vSAN will be used to provide policy-based management for each application tier. vSphere Replication will be used to replicate the virtual machine data in an asynchronous configuration.
- E. Two new iSCSI storage arrays will be deployed, one at either site. Each application tier will be initially provisioned a new LU
- F. Data replication will be offloaded to the new arrays.
- G. Two new storage arrays will be deployed, one at either site. vSphere Volumes (vVOLS) will be used to provide policy-based management for each application tier
- H. Data replication will be offloaded to the new arrays.

Answer: B

NEW QUESTION 26

An architect is designing a VMware solution for a customer to meet the following requirements:

- The solution must use investments in existing storage array that supports both block and file storage.
- The solution must support the ability to migrate workloads between hosts within a cluster.
- The solution must support resource management priorities.
- The solution must support the ability to connect virtual machines directly to LUNs.
- The solution should use existing 32G fabric infrastructure.
- There is no budget for additional physical hardware.

Which design decision should the architect make to meet these requirements?

- A. The ESXi hosts will leverage Fibre Channel (FC).
- B. The ESXi hosts will leverage iSCSI.
- C. The ESXi hosts will leverage Fibre Channel over Ethernet (FCoE).
- D. The ESXi hosts will leverage NFS.

Answer: A

NEW QUESTION 29

During a requirements gathering workshop, the customer provides the following requirement that is pertinent to the design of a new vSphere environment:

➤ The Maximum Tolerable Downtime (MTD) for all Tier 1 applications is one hour. Which requirement classification is being gathered for the design documentation?

- A. Manageability
- B. Performance
- C. Availability
- D. Recoverability

Answer: C

NEW QUESTION 33

During a requirements gathering workshop, the customer provides the following information:

- Each host has 2 × 10 GbE NIC
- EtherChannel is not currently configured
- No changes can be made to the physical network
- Network throughput must be prioritized for defined critical services

Which two recommendations should the architect make with regard to virtual networking? (Choose two.)

- A. Use Route Based on Physical NIC Load.
- B. Use Network I/O Control with Shares.

- C. Use Network I/O Control with Reservation.
- D. Use Link Aggregation Control Protocol (LACP).
- E. Use Network I/O Control with Limits.

Answer: AD

NEW QUESTION 35

The storage team at an organization is planning to migrate from an older Fibre Channel storage environment to a new environment using IP-based storage. Which two switch features or characteristics are appropriate for IP storage networks? (Choose two.)

- A. Fabric extending devices
- B. Spanning Tree Protocol (STP)
- C. 2:1 or greater bandwidth oversubscription for 10 GbE switches
- D. Non-blocking switch
- E. Deep or ultra buffered switches

Answer: DE

Explanation:

<https://www.arista.com/en/solutions/ip-storage-network-infrastructures>

NEW QUESTION 38

An architect is tasked with planning the design of a new vSphere environment. When commissioned, this environment will be used to migrate an existing set of virtual machines.

An inventory of the existing infrastructure, including configured vCPU, RAM and storage sizes has been provided.

In order for each virtual machine to be migrated, which two data sources with peak and average utilization data are required for sizing? (Choose two.)

- A. %Ready
- B. Disk Write latency
- C. CPU
- D. Ballooned memory
- E. IOPS

Answer: BE

NEW QUESTION 42

A architect is designing a new VMware software-designed data center (SDDC) using vSphere 7 to meet the following requirements:

- The SDDC must be deployed at two locations: primary and secondary.
- vSphere Replication must be used to replicate virtual machines between the two locations.
- Site Recovery Manager must be used to orchestrate disaster recovery (DR) activities.
- One single-sign on (SSO) domain must be used to authenticate access at both locations. Which design decision should the architect make to meet these requirements?

- A. A vCenter Server Appliance will be deployed to each site.
- B. Unique SSO domains will be created per site.
- C. A vCenter Server will be installed on Windows virtual machines deployed to both sites.
- D. A vCenter Server Appliance will be deployed to each site.
- E. A vCenter Server Appliance will be deployed to the primary site only.

Answer: D

NEW QUESTION 47

An architect is tasked with recommending a solution for a company that is running out of VLANs. Currently the company is running two separate data centers based on vSphere including an Enterprise Plus license. In the first data center, the problem was solved by using VMware NSX and overlay network. In the second data center, there is currently no VMware NSX implementation in place and no budget for additional licenses.

What should the architect recommend as a potential solution to provide support for additional VLANs?

- A. Separate Distributed Virtual Switches (DVS)
- B. Private VLANs (PVLAN)
- C. Virtual Guest Tagging (VGT)
- D. vSwitch VLAN Tagging (VST)

Answer: A

NEW QUESTION 48

Which requirement would be classified as a functional requirement within the application design documentation?

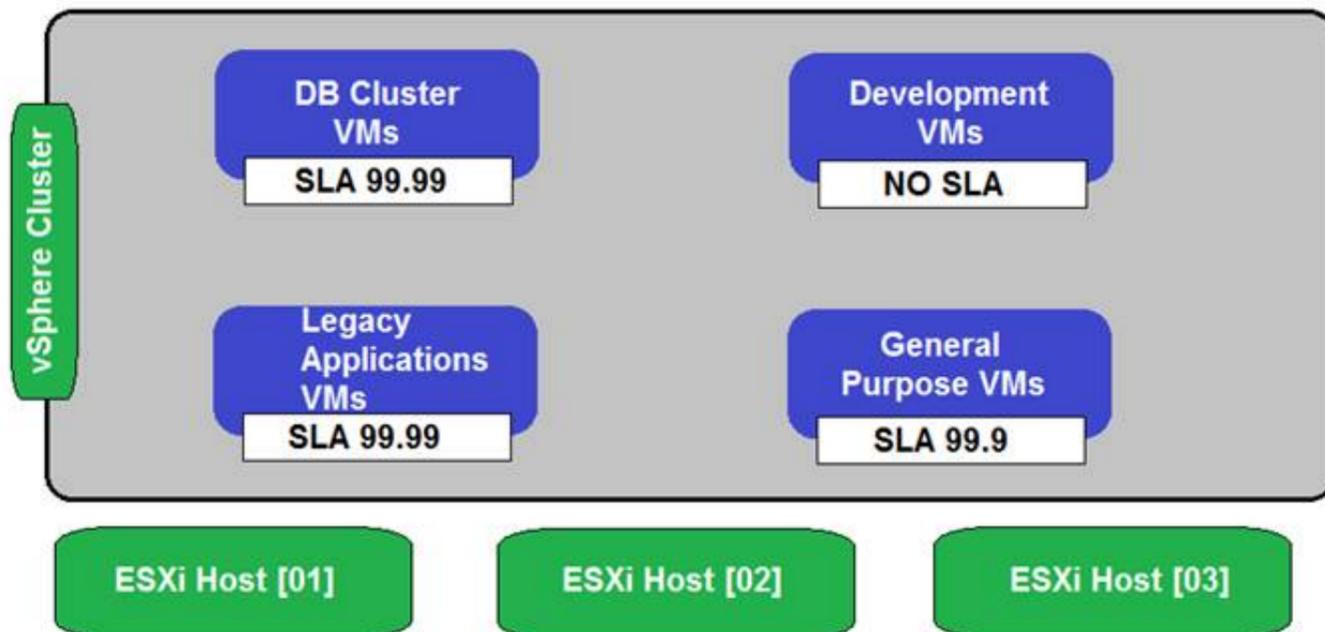
- A. The application must be hosted with redundancy levels of N+1 or better.
- B. Penetration testing must be executed quarterly with a pass rate of 80% or higher.
- C. The application must be capable of handling 200 transactions per second.
- D. Administrators must monitor the network traffic of the desired systems.

Answer: C

NEW QUESTION 49

Refer to the exhibit.

During a requirements gathering workshop, the customer shares the following diagram regarding their availability service-level agreements (SLAs):



The customer wants database application level availability to always take precedence. What should the architect recommend to meet the customer's requirement?

- A. Enable vSphere HA and add a VM Override with VM Restart Priority set to Highest.
- B. Enable Fault Tolerance.
- C. Enable Sphere HA and maintain the default settings.
- D. Enable vSphere HA and add a VM Override with VM Restart Priority set to Lowest.

Answer: D

NEW QUESTION 51

An architect decides to separate virtual desktops and application servers into separate vSphere clusters to meet security and management requirements. What are two implications of this design decision? (Choose two.)

- A. There will be an increase in management overhead.
- B. Identical hardware must be procured for all hosts.
- C. There will be a reduction in performance.
- D. The patching cycles will affect both clusters at the same time.
- E. There will be additional licensing and cost requirements for both clusters.

Answer: DE

NEW QUESTION 56

During a requirements gathering workshop, the customer provides the following requirement (REQ) and constraints (CON):

- > REQ01: The customer is looking for a way to limit database virtual machine (VM) placement to save on CPU licensing costs.
- > CON01: There is a single cluster with no budget to scale.
- > CON02: All virtual machines must run on the consolidated cluster.

Which two design decisions should the architect make to meet the customer requirement? (Choose two.)

- A. The solution must use VM-VM anti-affinity rules
- B. The solution must use vSphere DRS in manual mode
- C. The solution must use a vRealize Orchestrator workflow for VM placement
- D. The solution must use VM-Host affinity rules
- E. The solution must use vSphere VM and host DRS groups

Answer: DE

NEW QUESTION 59

An architect is designing a series of new vSphere environments for an organization. The environments will be deployed in their US-East and US-West region data centers. Each data center may have one or more dedicated vSphere environments. Only the vSphere environments within a data center will be configured with Enhanced Linked Mode. The Chief Technology Officer (CTO) has authorized the use of VMware vRealize Automation Cloud for automation. The build team creates standardized virtual machine images for various operating systems in Open Virtualization Format (OVF) and publishes the latest version on an as-needed basis to an internal HTTPS-accessible repository.

The architect must design a content library topology that meets the following requirements:

- > A localized content library must be available in each data center.
- > Each content library must be updated when an image is updated and released by the build team.
- > It must leverage the existing build team processes.

What should the architect recommend to meet the requirements?

- A. Work with the build team to create a local content library for each vSphere environment. Import the OVF images when new image are published to the repository.
- B. Create a local content library for the primary vSphere environment in each data center. Create a subscribed content library for each additional vSphere environment in each data center.
- C. Configure the content library to download content automatically.
- D. Work with the build team to automate a JSON-based manifest to the repository when changes occur in the repository. Create a subscribed content library for each vSphere environment.

- E. Configure the content library to download content when needed.
- F. Work with the build team to automate a JSON-based manifest to the repository when changes occur in the repository. Create a subscribed content library for each vSphere environment.
- G. Configure the content library to download content automatically.

Answer: B

NEW QUESTION 64

A new vSphere platform is being created. The platform will host virtual machines that will run management services and line-of-business applications. What should the architect consider when designing the number and type of clusters required?

- A. Maximum tolerable downtime
- B. Predicted platform growth
- C. Auditing requirements for the virtual machines
- D. The level of isolation required between virtual machine classifications

Answer: D

NEW QUESTION 69

An architect is finalizing the design for a new vCenter Server High Availability deployment. What is one thing the architect must document in the design?

- A. The load balancing algorithm used by the Management Distributed Virtual Switches (DVS)
- B. The SSH configuration settings for the vCenter Server's active node
- C. The vCenter Management Network IPv4 addresses for the witness node vCenter Server
- D. The details of each of the vCenter Server licenses for active, passive and witness nodes

Answer: C

Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.avail.doc/GUID-9B176C8A-4EEE-4A>

NEW QUESTION 70

An architect is tasked with designing a new VMware software-defined data center (SDDC) using VMware vSAN. The architect uses a storage assessment tool to determine the storage requirements for the new vSAN cluster. The new SDDC is going to be deployed into the existing data center and must be connected to a shared core network switch.

The architect decides to use vSAN ReadyNodes with the following configuration:

- Two disk groups with:
- Write Intensive NVMe 800 GB drive for cache
- Four 3.84 TB Mixed Use NVMe for capacity
- Four 10 GbE ports

Which element represents a risk that should be included in this design?

- A. The number of 10 GbE capable ports in the vSAN ReadyNode
- B. The use of vSAN ReadyNodes
- C. The existing network is 10 GbE capable
- D. The use of NVMe drives for cache and capacity

Answer: C

NEW QUESTION 71

As part of a requirements gathering workshop, the customer provides the following requirements for the design of a new greenfield virtual infrastructure:

- Some applications have a latency that must be less than 5 minutes.
- The solution must be able to support a workload growth rate of 10% per year. Which requirement classification is being gathered for the design documentation?

- A. Performance
- B. Manageability
- C. Recoverability
- D. Availability

Answer: A

NEW QUESTION 74

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