

Exam Questions 3V0-21.23

VMware vSphere 8.x Advanced Design

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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 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 3

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 4

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 5

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 6

During a requirements gathering workshop, the customer's Chief Information Security Office (CISO) provides the following requirements that are pertinent to the design of a new vSphere environment:

- All operating system critical patches must be installed within 24 hours of release.
- All virtual machine templates must be updated every three months in line with company policy.

Which requirement classification is being gathered for the design documentation?

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

Answer: A

Explanation:

This is lifecycle management function. The requirement is system critical patches, not system security patches.

NEW QUESTION 7

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.)

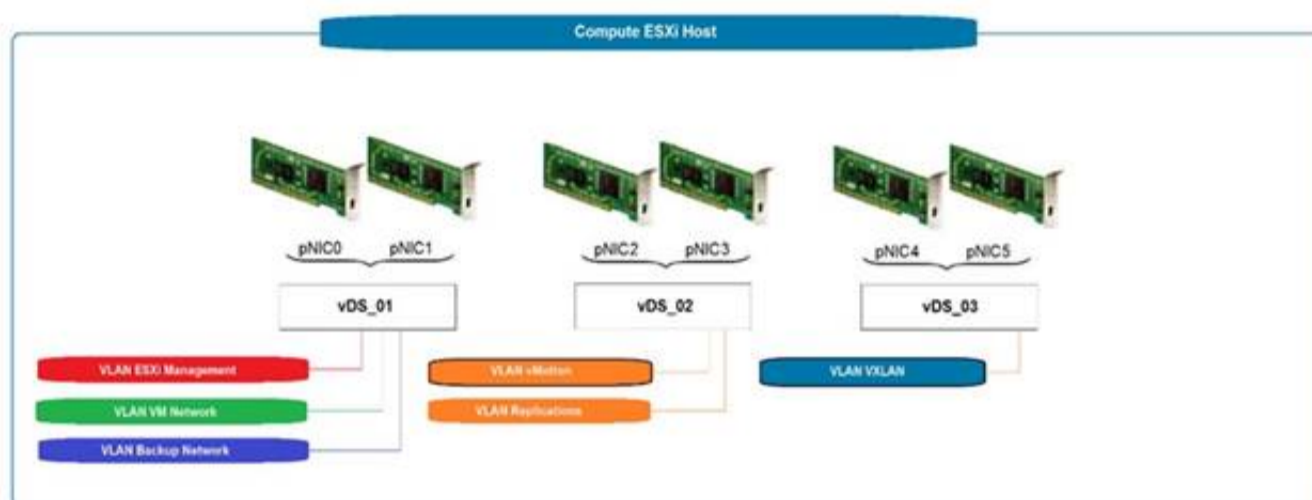
- A. Migration of virtual machines between hosts must be encrypted
- B. Log information must be verbose to support incident resolution
- C. Critical events generated within the platform must be logged to an external Syslog service
- D. Data integrity must be ensured
- E. A common content library must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

Answer: CD

NEW QUESTION 8

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 9

Following a company merger, there are two data centers running vSphere environments. Both data centers are leveraging separate Layer 3 vMotion networks. Which requirement must be met in order to enable vMotion migration between these locations?

- A. The vMotion service must be configured on the Management VMkernel adapter
- B. A dedicated TCP/IP stack for vMotion with a dedicated gateway must be configured
- C. A stretched vMotion network must be configured between data centers
- D. Virtual machines must be powered off in order to migrate them between data centers

Answer: B

NEW QUESTION 10

An architect is designing an environment for a retail customer. The design will use a single small vCenter Server Appliance and a cluster of eight ESXi hosts at a remote site. There is a single 10 GbE connected network at the remote site to support all management services. It is not possible to create additional management networks at the remote site. Virtual machine backups at the site will be dependent on the vCenter Server being available.

Which design decision should the architect make to maximize availability for backups?

- A. vCenter Server High Availability will be configured.
- B. The vCenter Server Appliance will be protected with vSphere Fault Tolerance.
- C. The cluster will be configured to use vSphere DRS in fully automated mode.
- D. The cluster will be configured with vSphere HA and set to restart virtual machines based on guest operating system heartbeat monitoring.

Answer: C

NEW QUESTION 10

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 12

What is a benefit of using a scale-out method for handling vSphere cluster growth?

- A. An increase in the recovery time objective (RTO) for the cluster
- B. Faster to reach the limit of virtual machines per host
- C. An overall reduction in the license costs for the cluster
- D. Less potential impact to virtual machines during a single host failure

Answer: B

NEW QUESTION 17

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 20

A customer provides the following list of requirements for their vSphere platform:

- REQ01 The solution should utilize dual network connections to eliminate single points of failure.
- REQ02 The solution should allow logs to be retained for a period of 30 days.
- REQ03 All user access to the platform should be recorded for audit purposes.
- REQ04 The solution should allow the management of multiple ESXi hosts.
- REQ05 The solution should allow users to view the remote console of virtual machines.

Which two of the listed requirements would be classified as non-functional requirements? (Choose two.)

- A. The solution should utilize dual network connections to eliminate single points of failure
- B. The solution should allow the management of multiple ESXi hosts
- C. The solution should allow users to view the remote console of virtual machines
- D. All user access to the platform should be recorded for audit purposes
- E. The solution should allow logs to be retained for a period of 30 days

Answer: AE

NEW QUESTION 24

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 26

An architect is designing a solution based on the following information:

- Each ESXi host has a single physical NIC with two 10 Gbps ports.
- There is a performance-based service-level agreement (SLA) that guarantees 15 Gbps bandwidth for production virtual machines at all times.
- There is no budget to purchase additional hardware.
- The hardware replacement SLA is based on a delivery agreement of two business days.

Which recommendation for the configuration of vSphere High Availability (HA) should the architect include in the design?

- A. Configure vSphere HAConfigure % based admission control Configure two isolation addresses Consider an OEM with NIC failure conditions in their Proactive HA plugin
- B. Configure vSphere HASet das.IgnoreRedundantNetWarning to trueConsider an OEM with NIC failure conditions in their Proactive HA plugin

C. Configure vSphere HAConfigure two existing data stores for heartbeatConsider an OEM with NIC failure conditions in their Proactive HA plugin
D. Configure Proactive HA Automation Level: Automated Remediation: Maintenance mode for all failuresConsider an OEM with NIC failure conditions in their Proactive HA plugin

Answer: A

NEW QUESTION 31

The architect for a large enterprise is tasked with reviewing a proposed design created by a service partner.
Which design elements are expected to be detailed within the physical design section of the documentation?

- A. A design diagram illustrating the configuration and specific attributes, such as IP addresses
- B. A list of requirements, constraints, and risks
- C. A solution architecture diagram with the components and data flow
- D. An entity relationship diagram describing upstream and downstream dependencies for specific service components

Answer: B

NEW QUESTION 34

An architect is designing a new VMware solution for a customer that has a number of different resource profiles.

The following are the business requirements for the design:

The solution must support virtual machines with the following storage profiles:

-Write-intensive

-Backup

-Write-Once-Read-Many (WORM) archive

- The solution must support migration of virtual machine disks between storage profiles.
- The WORM archive data must be located at an isolated secure site.
- The backup storage array must only be connected to a backup media server.
- All data should be recoverable from backup.

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

- A. The solution will leverage a single storage array for the WORM archive and write-intensive storage profiles
- B. The solution will leverage the same array for the backup and write-intensive storage profiles
- C. The solution will leverage a different array for each storage profile
- D. The solution will leverage a single storage array for all storage profiles

Answer: C

NEW QUESTION 37

An architect is preparing a design for a customer. Based on requirements, the architect recommends an HCI- based infrastructure with all-flash architecture.

During the assessment, it is confirmed that the network throughput generated by virtual machines does not exceed 150 Mb/s.

What is the minimum number and type of network adapters in each server that the architect can recommend to ensure requirements are met and there is no single point of failure?

- A. Two 1 GbE network adapters per server
- B. Four 1 GbE network adapters per server
- C. Four 10 GbE network adapters per server
- D. Two 10 GbE network adapters per server

Answer: C

NEW QUESTION 40

An architect is designing a new vSphere cluster. The requirement is to provide a total of 96 CPU cores and 1.5 TB RAM across all hosts.

The following information has been provided:

Two different physical hardware profiles are available for the ESXi hosts in the cluster.

-Profile 1: 16 CPU cores and 256 GB RAM

-Profile 2: 32 CPU cores and 512 GB RAM

Profile 2 is twice as expensive to purchase as Profile 1.

Which two aspects should the architect consider when selecting the hardware profile? (Choose two.)

- A. The manufacturer and model of the CPUs in the hosts
- B. The amount of capacity available for failover of virtual machines within the cluster
- C. The downtime allowed for virtual machines that will be running within the cluster
- D. The cost to procure and maintain the hardware
- E. The number of virtual machines that will be running within the cluster

Answer: BE

NEW QUESTION 41

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 43

Which of the listed requirements would be classified as a recoverability non-functional requirement?

- A. The platform must be integrated with existing change control policies.
- B. The platform must be able to support a maximum tolerable downtime (MTD) of 30 minutes.
- C. Maintenance windows must be scheduled to take place monthly during an established overnight period.
- D. The platform must be available 24 hours a day, 7 days a week with the exception of scheduled downtime.

Answer: A

NEW QUESTION 48

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.

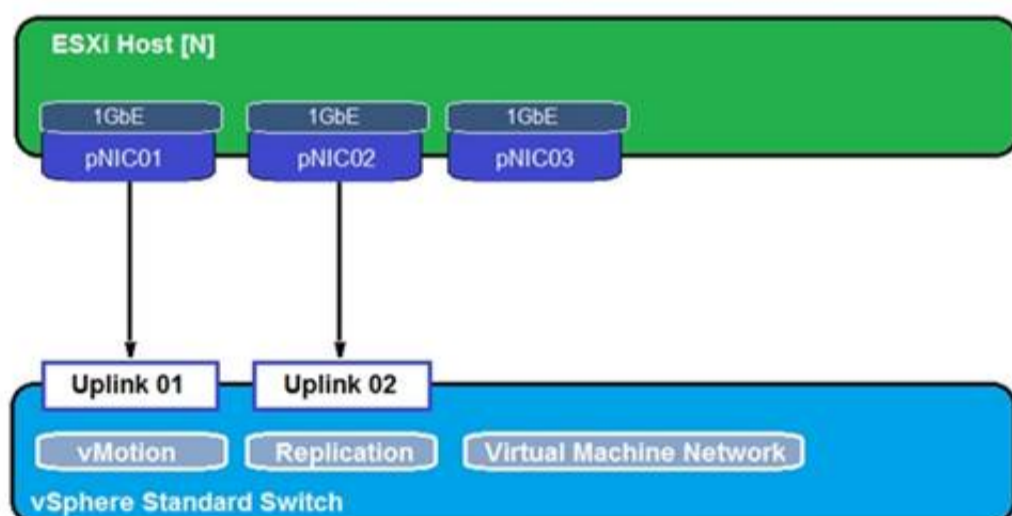
What should the architect recommend to meet the requirements?

- 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 49

Refer to the exhibit.



During a requirements gathering workshop, the customer shares the following about their existing ESXi host virtual networking infrastructure:

The customer confirms that:

- > Each ESXi host has approximately 200 virtual machines.
- > They want to maximize the number of concurrent virtual machine migrations.
- > When placing a host in maintenance mode, it takes a long time to evacuate the virtual machines. Which two recommendations should the architect make in order to help the customer overcome their challenge? (Choose two.)

- A. Configure the network to use MTU for the VMotion VMKernel to 1,600 bytes
- B. Configure the network to use MTU for the VMotion VMKernel to 9,000 bytes
- C. Create an additional standard switch with pNIC3 to use for vMotion
- D. Use the 3 pNICs and bundle them in a link aggregation group (LAG) configuration
- E. Use 10 GbE NICs instead of 1 GbE

Answer: CE

NEW QUESTION 54

An architect is designing a VMware software-defined data center (SDDC) solution based on the following customer requirements:

- > The solution must initially support 1,000 virtual machines
- > The solution must scale to support the concurrent running of up to 5,000 virtual machines
- > The production environment should be delivered across two data centers
- > The solution should have a maximum tolerable downtime (MTD) of four hours
- > The solution should have a monthly service availability target of 99.8%

Which two assumptions could the architect make based on the information from the customer to help size the solution? (Choose two.)

- A. The number of vSphere hosts in a cluster
- B. The average resource utilization of a virtual machine
- C. The size (CPU/RAM/storage) of the average virtual machine
- D. The guest operating system for each virtual machine
- E. The size (CPU/RAM/storage) of the vSphere hosts

Answer: AE

NEW QUESTION 55

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 59

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