Exam Questions 3V0-21.23

VMware vSphere 8.x Advanced Design

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NEW QUESTION 1
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 2
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 3
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 4
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.
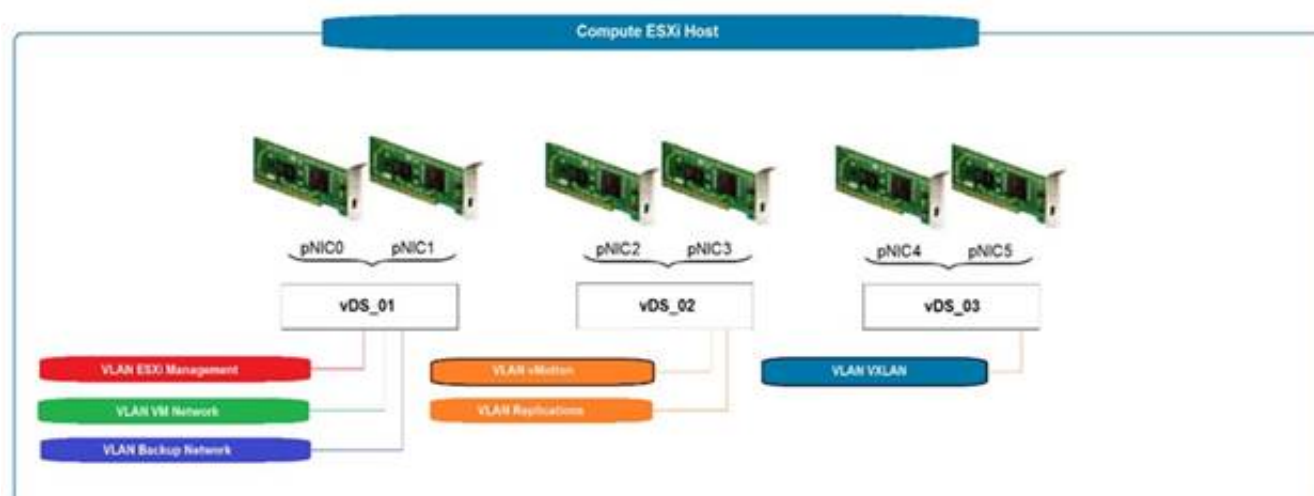Which ESXi deployment method should the architect use?

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 5
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 networkUse 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 networkUse 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_01Use 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 networkCreate a link aggregation group (LAG) for vDS_02

Answer: A

NEW QUESTION 6
During a requirements gathering workshop, the customer provides the following requirement:
≫ A new vSphere platform must be designed securely and all interfaces must be protected against potential snooping.
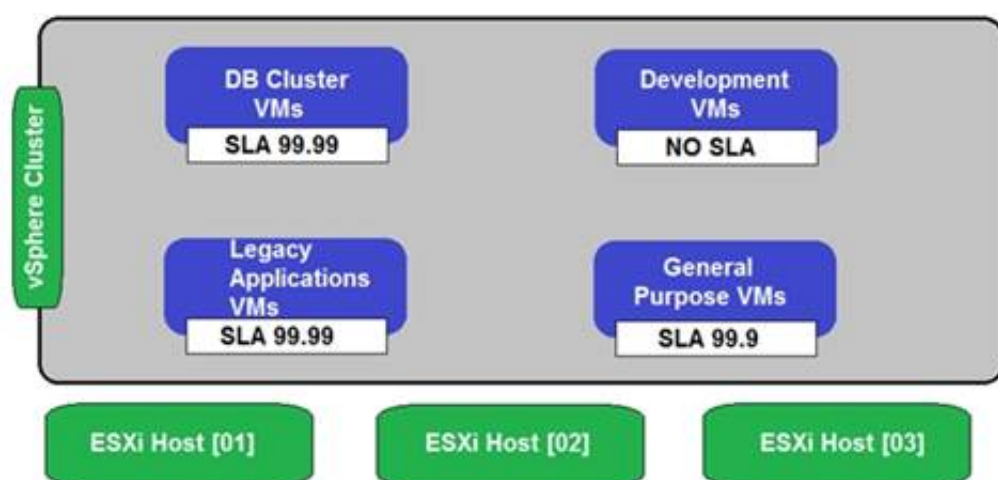How should this non-functional security requirement be documented?

A. Interfaces must be audited.
B. Encrypted channels must be used for all communications.
C. Unauthorized access to interfaces must be reported within 15 minutes.
D. Communications must be through Private VLANs (PVLAN).

Answer: A

NEW QUESTION 7
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 8
In a meeting to discuss the minimum viable product (MVP) deployment of a new customer-facing application, the key stakeholder shares details of the application components and the application administrators share details of performance and integrity tests for the application.
The application will be made up of the following components:
≫ A web server
-Steps to confirm the web server is operating correctly will take 15 minutes after the application server is online.
≫ An application server
-Steps to confirm application server integrity will take 15 minutes after the database is online.
≫ A database server
-The database server will be managed by a database administrator, with an agreed service-level agreement (SLA) to restore and validate database services within one hour.
The existing VMware infrastructure offers a recovery point objective (RPO) of 5 minutes and recovery time objective (RTO) of 15 minutes through a combination of backups and replication.
In the event of an outage impacting all three application components, how long will it take for the application to recover and complete all checks?

A. 15 minutes
B. 60 minutes
C. 105 minutes
D. 90 minutes

Answer: C

Explanation:
15 restore VMs + 60 restore and test DB + 15 test app server + 15 test web server

NEW QUESTION 9
The Chief Operating Officer (COO) at an organization raises concerns that their virtual infrastructure environment is vulnerable. Recently, a security-related issue

with a virtual machine caused all management services to become unavailable. No budget is available in the short term for additional platform investment. An architect is asked to review the current environment and make recommendations to mitigate concerns.
A virtualization administrator has provided the following details:
> There is a single four node cluster of ESXi servers
> There are two, Layer 2, physical network switches connecting resources
> The data center network is presented as a single /16 subnet
Given the information provided, which functional requirement should the architect include in the design to mitigate the COOs concerns?

A. The virtual infrastructure environment must connect application virtual machines and management services to new physical network switches
B. The virtual infrastructure environment must connect application virtual machines and management services to separate distributed virtual switches (DVS)
C. The virtual infrastructure environment must connect application virtual machines and management services to separate VLANs
D. The virtual infrastructure environment must connect management services to a vSphere standard switch (VSS)

Answer: D

NEW QUESTION 10
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.
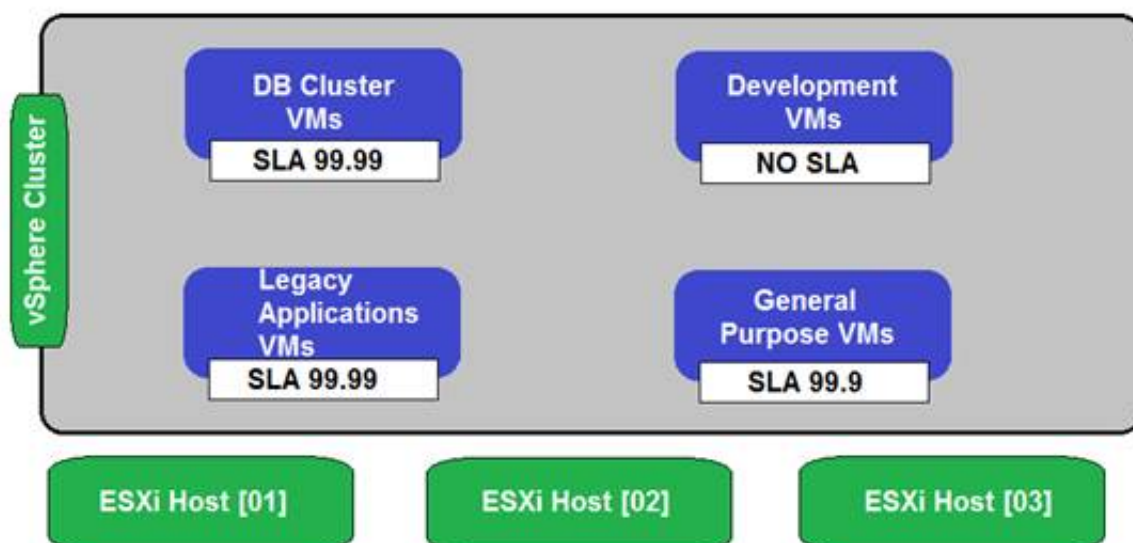Which storage design recommendations would meet the requirements?

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 sit
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 tie
H. Data replication will be offloaded to the new arrays.

Answer: B

NEW QUESTION 10
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 13
A customer defines a requirement to minimize the vMotion migration time during a maintenance period. The servers being used are equipped with eight 1 GbE network adapters.
Per the defined logical network configuration, there are two network adapters each used for:
> Management traffic
> vMotion traffic
> iSCSI traffic
> Virtual machine traffic
Which design decision should the architect make to meet the customer requirement?

A. Use Network I/O Control to define a reservation for vMotion traffic.
B. Implement Multi-NIC vMotion by adding additional vMotion VMkernels.
C. Configure a dedicated TCP/IP stack for vMotion traffic.

D. Combine vMotion and Management traffic to make use of four adapters.

Answer: A

NEW QUESTION 14
A new real-time financial service application is being developed by the engineering team at a financial firm and will be released as a public Software-as-a-Service (SaaS) offering. The solutions architect has designed and deployed a new vSphere environment and the supporting network infrastructure for hosting all public services. ESXi hosts are configured to use Precision Time Protocol (PTP) and a local stratum-1 network time server.
Application provisioning and scaling will be managed by VMware vRealize Automation and can be run on Microsoft Windows or multiple distributions of Linux. Which three recommendations should the architect include in the design to ensure that the service maintain timekeeping within an accuracy of one second? (Choose three.)

A. Use Microsoft Windows Server as the guest operating system.
B. Configure the chrony time-sync agent on each virtual machine guest operating system.
C. Set the virtual hardware device to use Host System Time (NTP) for each virtual machine running the application.
D. Add a precision clock virtual device to each virtual machine running the application.
E. Use a Linux distribution as the guest operating system.
F. Add a virtual watchdog timer (VWDT) device to each virtual machine running the application.

Answer: ABC

NEW QUESTION 18
An architect is tasked with expanding an existing VMware software-defined data center (SDDC) solution so that it can be used to deliver a virtual desktop infrastructure (VDI) service off-shore development activities.
The production environment is currently delivered across two geographically dispersed data centers. The two data centers are currently connected to each other through multiple diversely routed, high bandwidth and low latency links. The current operations management components are deployed to a dedicated management cluster that is configured with N+1 redundancy. The current VMware software-defined data center (SDDC) has a monthly availability target of 99.5%, which includes all management components.
The customer requires that the new solution scale to support the concurrent running of 500 persistent virtual desktops. The virtual desktops must not share the same virtual infrastructure as existing virtual machines, but can be managed using the same VMware operations management components. Any new VDI service management components must be installed into the management cluster. There is no requirement to back up the virtual desktops because all relevant user data is stored centrally. The VDI service is providing business critical services and must have an availability target of 99.9%.
Given the information from the customer, which two assumptions would the architect include in the design? (Choose two.)

A. The existing virtual infrastructure has sufficient capacity to host the new VDI workloads
B. The existing operations monitoring tools have sufficient capacity to monitor the new VDI services
C. The existing management cluster has enough available capacity to host any VDI service management component
D. The management cluster has N+1 redundancy
E. The VDI service has a higher service-level agreement (SLA) than the operations management SLA

Answer: BD

NEW QUESTION 22
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 23
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 cente
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 environmen
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 environmen
G. Configure the content library todownload content automatically.

Answer: B

NEW QUESTION 24
A customer has six hosts available in a cluster. When running at full capacity, all virtual machines can be run on two hosts.
How many hosts can the customer place into maintenance mode at the same time while still providing N+2 resiliency to the cluster?

A. Two
B. Three
C. One
D. None

Answer: A

NEW QUESTION 27
A customer requires the use of data encryption to ensure data is not accessible when a drive is removed from the primary storage platform. However, there is also a requirement to use deduplication and compression against all workloads in order to conserve space.
Which solution meets the customer requirements?

A. Data-in-transit encryption
B. OS-level encryption
C. Encrypted backups
D. Array-based encryption

Answer: D

NEW QUESTION 31
Which two statements are true about gathering functional business and application requirements? (Choose two.)

A. It focuses on functional requirements with C-level stakeholders
B. It leverages a single set of QUESTION NO:s for all stakeholders
C. It might require multiple rounds of stakeholder interviews
D. It builds stakeholder consensus
E. It is a non-iterative process

Answer: AC

NEW QUESTION 35
A VMware Service Provider is tasked with delivering a solution for continuous availability for a subset of Tier 1 virtual machines (VMs) and vApps running in their vSAN environment. The VMs make up a
mission-critical application and there can be no data loss in the event of an outage at their primary data center. In the event of a regional outage, they have established a 10-minute recovery point objective (RPO). Failover/failback to the third site must be automated.
They have the following in place:
➢ Two local data centers (primary and secondary) connected with 100 Gb dedicated fiber
➢ 2ms round-trip time (RTT) latency between the sites A third data center located on another power grid
➢ 70ms latency between the primary and secondary data centers
➢ Matching storage arrays at all locations
Which two solutions could be used to meet the requirements? (Choose two.)

A. Site Recovery Manager
B. Snapshots
C. vSAN Metro Cluster
D. vSphere Data Protection
E. vStorage APIs for Array Integration (VAAI)

Answer: BC

NEW QUESTION 37
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