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Advanced Design VMware vSphere 7.x

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**QUESTION 1**

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

Correct Answer: B

QUESTION 2

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 questions for all stakeholders
- C. It might require multiple rounds of stakeholder interviews
- D. It builds stakeholder consensus
- E. It is a non-iterative process

Correct Answer: AC

QUESTION 3

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

Correct Answer: A

QUESTION 4

The Chief Information Security Officer (CISO) for an organization is concerned about the security posture of the operating system images that are used for the provisioning of their Software-as-a-Service (SaaS) applications. The organization is in a growth period. The organization is opening a new data center to

launch its next phase of new SaaS-based solutions.

The DevOps team currently creates encrypted virtual machine (VM) templates that are used for various operating systems and adds these to the vSphere inventory. The DevOps team already uses a published content library and has been granted a role with the ability to add and delete library items.

The following requirements have been noted:

Impacts to the DevOps team's operational processes must be kept to a minimum.

The DevOps team must be able to regularly check out a copy of the image for updates and check in a new version of the image.

Images must be synchronized from the primary data center to the new data center.

Which three recommendations should the architect make to design a content library solution that will meet these requirements? (Choose three.)

- A. Clone virtual machines as VM templates to the published content library
- B. Create a subscribed library from the published library and synchronize Open Virtualization Format (OVF) templates on-demand
- C. Create a subscription and publish VM templates to a subscribed content library
- D. Create a subscribed library from the published library and synchronize Open Virtualization Format (OVF) templates



automatically

E. Clone virtual machines as Open Virtualization Format (OVF) templates to the published content library

F. Update the role for the DevOps team with new privileges

Correct Answer: BEF

QUESTION 5

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

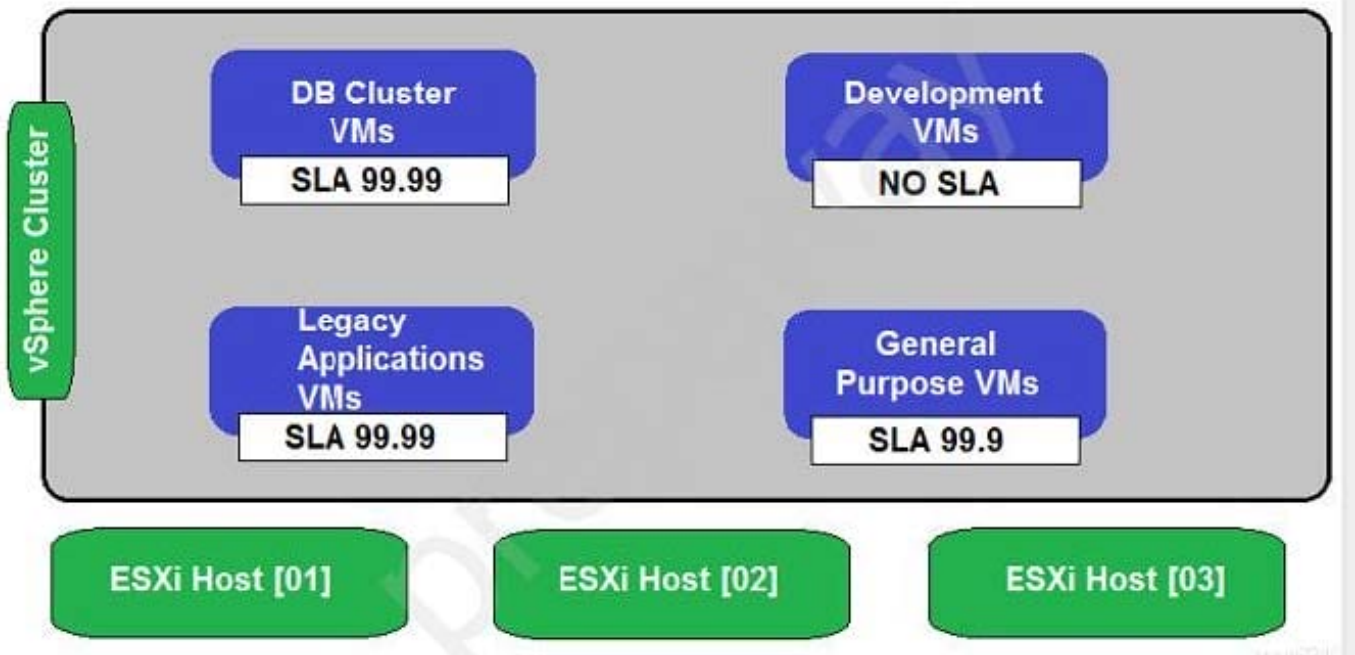
E. Deep or ultra buffered switches

Correct Answer: BC

QUESTION 6

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.

Correct Answer: D

QUESTION 7

There is a request for approved virtual machine applications through a new vSphere platform's integrated automation portal. The platform was built following all provided company security guidelines and has been assessed against Sarbanes-Oxley Act of 2002 (SOX) regulations.

The platform has the following characteristics:

vRealize Operations is being used to monitor all clusters.

There is a dedicated ESXi cluster, supporting all management services.

-All network traffic is via distributed virtual switches (DVS).

There is a dedicated ESXi cluster for all line-of-business applications.



-
Network traffic is serviced by NSX-T.

There is a dedicated ESXi cluster for virtual desktop infrastructure (VDI).

-
Network traffic is serviced by NSX-T.

The application owner is requesting approval to install a new service that must be protected as per the Payment Card Industry (PCI) Data Security Standard.

Which additional non-functional requirement should the architect include in the design to support the new service?

- A. The vSphere hosting platform and all PCI application virtual machines must be assessed against Payment Card Industry (PCI) Data Security Standard compliance.
- B. The vSphere hosting platform and all PCI application virtual machines must be assessed for SOX compliance.
- C. The vSphere hosting platform and all PCI application virtual machine network traffic must be routed via NSX-T.
- D. The vSphere hosting platform and all PCI application virtual machines must be monitored using the vRealize Operations Compliance Pack for Payment Card Industry.

Correct Answer: C

QUESTION 8

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

Correct Answer: AB

QUESTION 9

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

Correct Answer: D

QUESTION 10

A customer has a database cluster with 40/60 read/write ratio and a high IOPs requirement with no contention on an all-flash vSAN cluster.

Which two storage settings should be configured for best performance? (Choose two.)

- A. IOPs limits enabled
- B. RAID 1
- C. Deduplication and Compression disabled
- D. RAID 5/6
- E. Deduplication and Compression enabled

Correct Answer: AB

QUESTION 11

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

Correct Answer: B

QUESTION 12

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

Correct Answer: CE

QUESTION 13

An architect is considering placement of virtual machines within an existing VMware software-defined data center (SDDC).

During the discovery phase, the following information is documented:

Cluster One Six ESXi hosts vSphere HA with host failures cluster tolerates = 1 Proactive HA is enabled and set to automated Fully Automated vSphere DRS Transparent Page Sharing (TPS) is enabled

Cluster Two Eight ESXi hosts vSphere HA with host failures cluster tolerates = 1 Proactive HA is disabled Partially Automated vSphere DRS Transparent Page Sharing (TPS) is disabled

Cluster Three Three ESXi hosts vSphere HA with admission control is disabled Proactive HA is not supported Transparent Page Sharing (TPS) is disabled



Virtual Machine Resource Profile 1 Memory sharing techniques should not be used Virtual machines should be automatically restarted in the event of host failure if resources are available Automated initial virtual machine placement

Virtual Machine Resource Profile 2 Memory sharing techniques can be used Virtual machines should be protected from any host hardware failures Automated initial virtual machine placement Which two recommendations should the architect make for placement of the virtual machines to meet resource profile requirements? (Choose two.)

- A. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster One.
- B. All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster One.
- C. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Two.
- D. All virtual machines matching Virtual Machine Resource Profile 1 should be placed on Cluster Two.
- E. All virtual machines matching Virtual Machine Resource Profile 2 should be placed on Cluster Three.

Correct Answer: BD

QUESTION 14

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).

Correct Answer: A

QUESTION 15

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.

Correct Answer: C

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