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Advanced Design VMware vSphere 7.x

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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.

Correct Answer: AC

QUESTION 2

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

Correct Answer: BE

QUESTION 3

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

QUESTION 4

An architect is finalizing the design for a new vSphere platform based on the following information:

All Windows virtual machines will be hosted on a dedicated cluster for licensing purposes.

All Linux virtual machines will be hosted on a dedicated cluster for licensing purposes.

All management virtual machines will be hosted on a dedicated cluster.

A total of ten physical sites will be used to host virtual machines.

In the event of one physical datacenter becoming unavailable, the manageability of the virtual

infrastructure in the remaining data centers should not be impacted.

Access to configure the management virtual machines via vCenter Server must be controlled through the

management Active Directory domain.

Access to configure the Windows and Linux virtual machines must be controlled through the resource

Active Directory domain.

The management and resource Active Directory domains are part of separate Active Directory forests and

do not have any trusts between them.

The design will use Active Directory with Integrated Windows Authentication.

How should the architect document the vCenter Server configuration for this design?

A. Deploy a vCenter server for the management cluster. Deploy a vCenter Server for all remaining clusters. Create a shared SSO domain for each physical site.

B. Deploy a vCenter Server for the management cluster. Deploy a vCenter Server for all remaining clusters. Create a shared SSO domain across all physical sites.

C. Deploy a vCenter Server for the management cluster with a dedicated SSO domain. Deploy a vCenter Server for all

remaining clusters and use a dedicated SSO domain for each physical site.

D. Deploy a vCenter Server for the management cluster with a dedicated SSO domain. Deploy a vCenter Server for all remaining clusters and use a dedicated SSO domain into a single physical site.

Correct Answer: B

QUESTION 5

An architect is designing a new vSphere environment to meet the following requirements:

The environment must support 5,000 virtual machines.

The environment will be built initially using 350 hosts.

Which vCenter Server appliance deployment size should the architect specify for the design?

A. Large

B. Small

C. Tiny

D. Medium

Correct Answer: A

QUESTION 6

An architect is designing a new greenfield environment with 600 ESXi hosts in an automated fashion. The engineering department already has a PXE Boot server, TFTP server, and DHCP server set up with an NFS mount for their current Linux servers.

The architect must be able to demonstrate and meet a security requirement to have all infrastructure processes separated.

Which recommendation should the architect make for the ESXi host deployment?

A. Request an isolated network segment to use and dedicate it to Auto Deploy functions

B. Ask the business to expand the engineering environment to service the virtual environment as well

C. Request a common shared network with flexible security measures to accommodate different auto deployment options
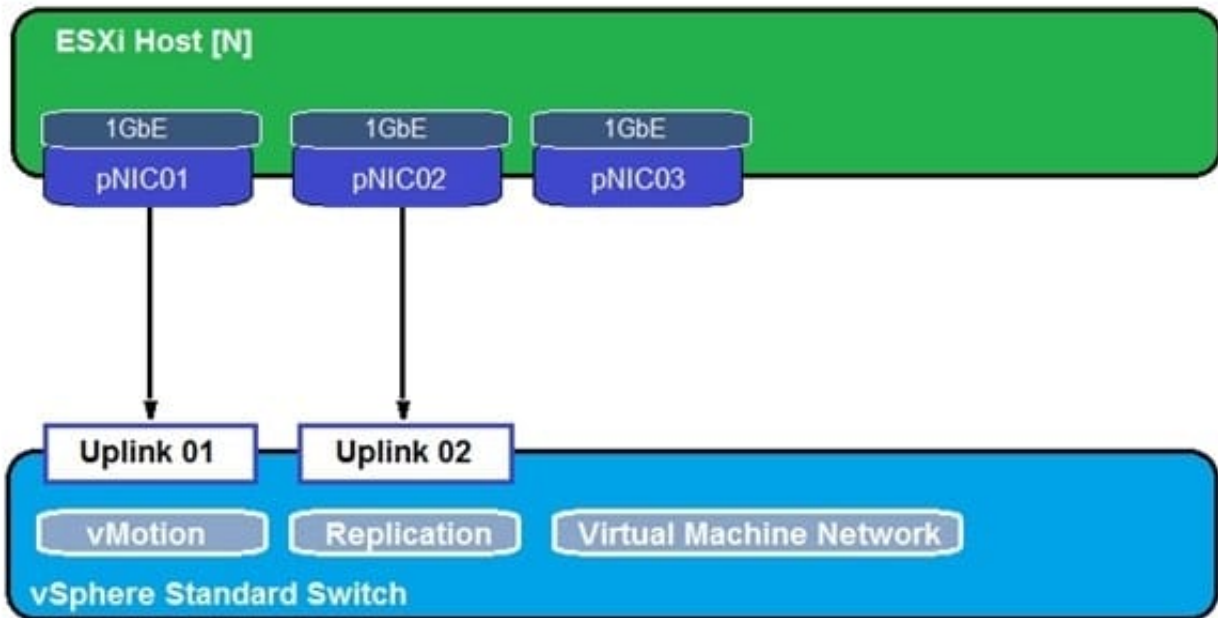
D. Deploy each ESXi host individually and document it to satisfy security requirements

Correct Answer: C

QUESTION 7

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

Correct Answer: AD

QUESTION 8

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 9

An architect makes the design decision to install ESXi on embedded and resilient 8 GB SD cards. What is the impact of this design decision?

A. Host profiles must be used for this kind of installation

B. Scratch partition would need to be created on the external storage

C. The size of the SD cards is too small and the installation will fail

D. The vSphere Auto Deploy feature must be enabled on vCenter Server

Correct Answer: A

QUESTION 10

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

Correct Answer: A

QUESTION 11

An architect is tasked with designing a new VMware software-defined data center (SDDC) solution for an

online retail customer who has a primary and secondary data center as well as 10 distribution hubs.

The customer has provided the following business requirements to help inform the design:

The solution must support the running of up to 1,000 concurrent virtual machines across the primary and

secondary data center.

The solution must support the running of up to 20 concurrent virtual machines in each distribution hub.

The solution must support the separation of management and lines-of-business application virtual

machines.

All management components (including directory services, backup, automation, operations and logging)

must be deployed to the primary data center.

All virtual infrastructure components must have redundancy of N+1.

All sites are connected to each other using a wide area network that has multiple diversely routed links.

The solution should support a monthly uptime target of 99.9%.

The recovery time objective (RTO) for the solution must be four hours.

The recovery point objective (RPO) for the solution must be 24 hours.

Given the information from the customer, which assumption should the architect include in the design?

A. All business application virtual machines can be deployed into a single cluster within the primary data center.

B. Each distribution hub should be configured with a backup device.

C. The wide area network has sufficient bandwidth to support centralized management.

D. Each cluster will have a minimum of four hosts.

Correct Answer: B

QUESTION 12

Refer to the exhibit.

During a requirements gathering workshop, a customer shares the following diagram regarding their availability service-
level agreements (SLAs):
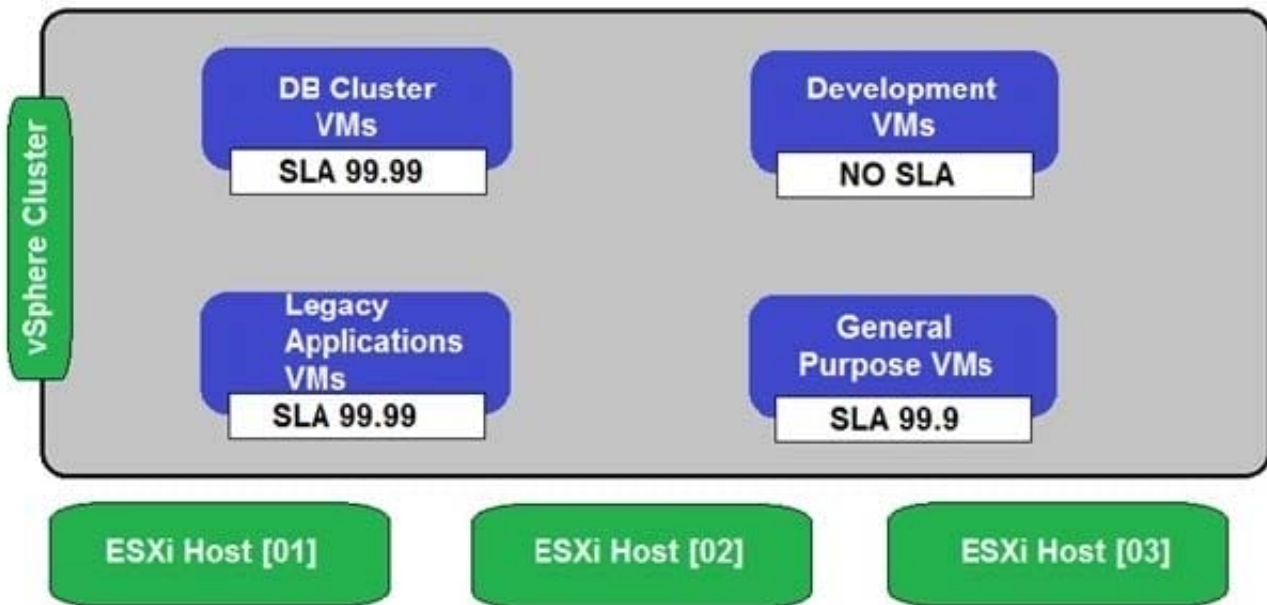
The customer states that there is no application level availability for legacy applications.

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

Correct Answer: A

QUESTION 13

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

Correct Answer: BE

QUESTION 14

An architect is preparing a design for a company planning digital transformation. During the requirements

gathering workshop, the following requirements (REQ) and constraints (CON) are identified:

REQ01 The platform must host different types of workloads including applications that must be compliant

with internal security standard.

REQ02 The infrastructure must initially run 100 virtual machines.

REQ03 Ten of the virtual machines must be compliant with internal security standard.

REQ04 The internal security standard specifies logical network separation for in-scope applications.

CON01 The customer has already purchased the licenses as part of another project.

CON02 The customer has five physical servers that must be reused.

Additionally, based on resource requirements, four physical servers will be enough to run all workloads.

Which recommendation should the architect make to meet requirements while minimizing project costs?

A. Use Network I/O Control to ensure the internal security zone has higher share value

B. Purchase additional servers and plan separate, isolated clusters for workloads that must be compliant with internal security

C. Use a single cluster and ensure that different security zones are separated at least with dedicated VLANs and firewall

D. Use a single cluster and configure DRS anti-affinity rules to ensure internal security compliant virtual machines cannot migrate between ESXi hosts.

Correct Answer: D

QUESTION 15

Following a recent acquisition, the architect learns that both companies use vSphere on-premise and will need to combine the data centers into one. The acquired company\\'s licenses will not be renewed for cost-savings related to the acquisition. All consumed vSphere licenses must have active support to support lineof-business operations. The merged environment must maintain 25% spare capacity. The architect has a small budget remaining unallocated for hardware.

The architect has calculated that the current vSphere environment can absorb the acquired company\\'s virtual machines but the cluster will run at 90% memory utilization and at 50% CPU utilization.

Which design decision can the architect make to incorporate the new company\\'s virtual machines into the combined

vSphere environment?

A. Migrate the acquired company\\'s virtual machines into the vSphere environment as it will currently fit.

B. Use the current budget to add memory to the cluster to increase each ESXi host\\'s capacity and add the new virtual machines.

C. Purchase extra hosts to add to the cluster in anticipation of adding the acquired company\\'s virtual machines.

D. Purchase new licenses for some of the acquired company\\'s ESXi hosts and add them to the cluster to hold the acquired company\\'s virtual machines.

Correct Answer: B

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