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Advanced Design VMware vSphere 7.x

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QUESTION 1

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 COO's 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).

Correct Answer: D

QUESTION 2

A customer is deploying a new cluster and wants to be able to patch and update two hosts in parallel. The cluster must be able to maintain N+1 resiliency across the remaining hosts while patching activities are performed. The current expected utilization of the platform requires a minimum of two hosts to support all of the virtual machines.

What is the minimum number of hosts the customer will require in the cluster in order to meet the required resiliency level?

- A. Five
- B. Six
- C. Four
- D. Seven

Correct Answer: C

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

Correct Answer: A

QUESTION 4

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 LUN. Data replication will be offloaded to the new arrays.
- B. Two new vSphere clusters enabled with vSAN will be deployed, one at either site. 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.
- C. Two new iSCSI storage arrays will be deployed, one at either site. Each application tier will be initially provisioned a new LUN. Data replication will be offloaded to the new arrays.
- D. 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. Data replication will be offloaded to the new arrays.

Correct Answer: A

QUESTION 5

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 HA Configure % based admission control Configure two isolation addresses Consider an OEM with NIC failure conditions in their Proactive HA plugin
- B. Configure vSphere HA Set das.IgnoreRedundantNetWarning to true Consider an OEM with NIC failure conditions in their Proactive HA plugin
- C. Configure vSphere HA Configure two existing data stores for heartbeat Consider an OEM with NIC failure conditions in their Proactive HA plugin
- D. Configure Proactive HA Automation Level: Automated Remediation: Maintenance mode for all failures Consider an OEM with NIC failure conditions in their Proactive HA plugin

Correct Answer: A

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