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Advanced Design VMware vSphere 7.x

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QUESTION 1

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.

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Network traffic is serviced by NSX-T.

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

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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 2

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

Correct Answer: AB

QUESTION 3

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

Correct Answer: B

QUESTION 4

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 should not be used Virtual machines should be automatically restarted in the event of host failure regardless of available resources 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: BE

QUESTION 5

An architect is designing a new vSphere environment with the following resources:

600 vCPU

5,760 GB RAM

Average resource usage is:

60 vCPU

1,152 GB RAM

The design must meet the following requirements:

The environment has the ability to burst by 25%.

Each host can schedule 36 vCPUs and has 512 GB RAM.

Management overhead is 20%.

What is the minimum number of hosts required to meet the design requirements?

A. Three

B. Five

C. Four

D. Two

Correct Answer: D

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