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Advanced Design VMware vSphere 7.x

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QUESTION 1

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 2

An architect is reviewing a physical storage design. The customer has specified that a new active-passive based storage array will be used to provide storage for the vSphere clusters.

Which configuration should for the architect recommended?

A. VMW_SATP_LOCAL

B. VMW_PSP_MRU

C. VMW_SATP_DEFAULT_AA

D. VMW_PSP_FIXED

Correct Answer: B

Reference: https://docs.vmware.com/en/VMware-vSphere/6.5/vsphere-esxi-vcenter-server-65-storageguide.pdf (188)

QUESTION 3

During a requirements gathering workshop, the customer provides the following information:

Each host has 2 × 10 GbE NIC EtherChannel is not currently configured No changes can be made to the physical network Network throughput must be prioritized for defined critical services

Which two recommendations should the architect make with regard to virtual networking? (Choose two.)

A. Use Route Based on Physical NIC Load.

B. Use Network I/O Control with Shares.

C. Use Network I/O Control with Reservation.

D. Use Link Aggregation Control Protocol (LACP).

E. Use Network I/O Control with Limits.

Correct Answer: AD

Reference: https://docs.vmware.com/en/VMware-vSphere/6.5/vsphere-esxi-vcenter-server-65-networkingguide.pdf

QUESTION 4

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 5

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 6

An architect is designing a new vSphere platform to meet a list of requirements from the security team.

Which two requirements would be classified as non-functional requirements? (Choose two.)

A. Migration of virtual machines between hosts must be encrypted

B. Log information must be verbose to support incident resolution

C. Critical events generated within the platform must be logged to an external Syslog service

D. Data integrity must be ensured

E. A common content library must be maintained across all data centers

Correct Answer: BC

QUESTION 7

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 8

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.

Correct Answer: A

QUESTION 9

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 10

Which two of the listed requirements would be classified as performance non-functional requirements? (Choose two.)

A. The vSphere platform must be able to provide a recovery time objective of 30 minutes

B. The vSphere platform must be able to provide a minimum throughput of 400 MB/s

C. The vSphere platform must be able to provide N+1 redundancy

D. The vSphere platform must be able to provide a maximum read latency of 15 ms

E. The vSphere platform must be able to provide a service-level agreement (SLA) of 99,9%

Correct Answer: AD

QUESTION 11

An architect is preparing a design for a customer. Based on requirements, the architect recommends an HCI-based infrastructure with all-flash architecture. During the assessment, it is confirmed that the network throughput generated by virtual machines does not exceed 150 Mb/s.

What is the minimum number and type of network adapters in each server that the architect can recommend to ensure requirements are met and there is no single point of failure?

A. Two 1 GbE network adapters per server

B. Four 1 GbE network adapters per server

C. Four 10 GbE network adapters per server D. Two 10 GbE network adapters per server

Correct Answer: C

QUESTION 12

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 13

An organization\\'s data scientists are executing a plan to use machine learning (ML). They must have access to graphical processing unit (GPU) capabilities to execute their computational models when needed. The solutions architect needs to design a solution to ensure that GPUs can be shared by multiple virtual machines.

Which two solutions should the architect recommend to meet these requirements? (Choose two.)

A. NVIDIA vGPU

B. AMD MxGPU

C. vSphere DirectPath I/O

D. vSGA

E. vSphere Bitfusion

Correct Answer: AD

QUESTION 14

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)

Correct Answer: BC

QUESTION 15

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.

Correct Answer: A

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