3V0-21.21 Q&As

Advanced Design VMware vSphere 7.x

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QUESTION 1

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 2

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 3

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 4

An architect is designing an environment for a retail customer. The design will use a single small vCenter Server Appliance and a cluster of eight ESXi hosts at a remote site. There is a single 10 GbE connected network at the remote site to support all management services. It is not possible to create additional management networks at the remote site. Virtual machine backups at the site will be dependent on the vCenter Server being available.

Which design decision should the architect make to maximize availability for backups?

A. vCenter Server High Availability will be configured.

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B. The vCenter Server Appliance will be protected with vSphere Fault Tolerance.

C. The cluster will be configured to use vSphere DRS in fully automated mode.

D. The cluster will be configured with vSphere HA and set to restart virtual machines based on guest operating system heartbeat monitoring.

Correct Answer: C

QUESTION 5

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

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