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Advanced Design VMware vSphere 7.x

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QUESTION 1

An architect is designing a solution for an environment with two types of resource profiles that must be virtualized. The first type consists of Tier 1 virtual machines that are disk I/O intensive, but do NOT require high CPU or memory. The second type consists of Tier 2 virtual machines that require a lower CPU and memory allocation and have minimal disk I/O.

Which design recommendation should the architect make for distributing the resource profiles?

A. Separate the two resource profiles into two clusters. The Tier 1 cluster will have fast storage while the Tier 2 cluster will not.

B. Run both resource profiles on the same cluster with the same host hardware platform.

C. Separate the two resource profiles into two clusters. The Tier 2 cluster will have faster CPU and more memory while the Tier 1 cluster will have slower CPU and less memory but more disk space.

D. Run both resource profiles on the same cluster with host hardware that has fast CPU, large amounts of memory, and the fastest storage platform.

Correct Answer: D

QUESTION 2

An architect is designing a VMware software-defined data center (SDDC) solution based on the following customer requirements: The solution must initially support 1,000 virtual machines The solution must scale to support the concurrent running of up to 5,000 virtual machines The production environment should be delivered across two data centers The solution should have a maximum tolerable downtime (MTD) of four hours The solution should have a monthly service availability target of 99.8%

Which two assumptions could the architect make based on the information from the customer to help size the solution? (Choose two.)

A. The number of vSphere hosts in a cluster

B. The average resource utilization of a virtual machine

C. The size (CPU/RAM/storage) of the average virtual machine

D. The guest operating system for each virtual machine

E. The size (CPU/RAM/storage) of the vSphere hosts

Correct Answer: AE

QUESTION 3

An organization\\\'s existing vSphere environments are configured for Enhanced Linked Mode. The DevOps

team automates the creation of hardened virtual machine images for various operating systems. Their

continuous integration/continuous delivery (CI/CD) pipeline runs a task at the end of a successful build, which uploads the Open Virtualization Format (OV) image to a sandbox content library, deploys a virtual machine from the image, and then destroys these objects after quality checks are complete.

The following requirements have been noted:

All content libraries and images must be centrally created and managed.

All images must be capable of being updated.

All images must be refreshed and available to subscribed libraries within 24 hours.

All images must provide details of the image contents and versions.

All images must be capable of being reverted to a previous version.

All images must be capable of having the hardware and guest operating system customized during deployment.

Which three recommendations should the architect make to design a content library solution that will meet these requirements? (Choose three.)

A. Create a local content library in the primary vSphere environment and enable publishing.

B. Create and publish a new subscription to a new subscriber library for each target vSphere environment.

C. Deploy the OVF images to vSphere and clone as an OVF template to a local content library.

D. Deploy the OVF images to vSphere and clone as a VM template to a local content library.

E. Edit the Auto Sync Refresh Interval advanced setting for each subscribed library.

F. Add a new subscriber library from each vSphere environment.

Correct Answer: ACF

QUESTION 4

Which requirement would be classified as a functional requirement within the design documentation?

A. The system must perform virtual machine backups through an API.

B. Virtual machines must be patched within one month of the patch release date.

C. Virtual machines must be restarted within 30 minutes of a host failure.

D. The system must be able to scale to support 500 concurrent virtual machines.

Correct Answer: C

QUESTION 5

The storage team at an organization is planning to migrate from an older Fibre Channel storage environment to a new environment using IP-based storage.

Which two switch features or characteristics are appropriate for IP storage networks? (Choose two.)

A. Fabric extending devices

B. Spanning Tree Protocol (STP)

C. 2:1 or greater bandwidth oversubscription for 10 GbE switches

D. Non-blocking switch

E. Deep or ultra buffered switches

Correct Answer: BC