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Advanced Design VMware vSphere 7.x

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QUESTION 1

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

QUESTION 2

A architect is designing a new VMware software-defined data center (SDDC) using vSphere 7 to meet the following requirements:

The SDDC must be deployed at two locations: primary and secondary. vSphere Replication must be used to replicate virtual machines between the two locations. Site Recovery Manager must be used to orchestrate disaster recovery (DR) activities. One single-sign on (SSO) domain must be used to authenticate access at both locations.

Which design decision should the architect make to meet these requirements?

- A. A vCenter Server Appliance will be deployed to each site. Unique SSO domains will be created per site.
- B. A vCenter Server will be installed on Windows virtual machines deployed to both sites.
- C. A vCenter Server Appliance will be deployed to each site.
- D. A vCenter Server Appliance will be deployed to the primary site only.



Correct Answer: D

QUESTION 3

A customer requests a review of its current vSphere platform design.

The following information is noted:

There are three different workload profiles for the virtual machines:

-Tier-1 virtual machines operate resource-intensive applications and require dedicated allocations for CPU and RAM.

-Tier-2 virtual machines operate internet-facing applications and require access to externally facing networks.

-Tier-3 virtual machines operate platform management tools such as vCenter Server and have different lifecycle management requirements.

Tier-1, Tier-2 and Tier-3 virtual machines are all hosted on a single large vSphere cluster.

The Chief Information Security Officer (CISO) has raised concerns that hosting externally facing applications alongside management tools does not meet internal compliance standards.

The Operations team has raised concerns about Tier-1 virtual machines negatively impacting the performance of vCenter Server.

The Operations lead has stated that management changes have consistently been rejected by application teams.

As a result of the review, which recommendation should the architect make regarding the design of this platform?

- A. Separate Tier-1, Tier-2 and Tier-3 virtual machines using dedicated distributed virtual switches (DVS)
- B. Separate Tier-2 virtual machines onto a dedicated cluster
- C. Separate Tier-1, Tier-2 and Tier-3 virtual machines onto dedicated clusters
- D. Separate Tier-1, Tier-2 and Tier-3 virtual machines using resource pools and shares

Correct Answer: D

QUESTION 4

An architect is designing a VMware solution for a customer based on the following information:



The solution must use investments in existing storage array that supports both block and file storage.

The solution must support the ability to migrate workloads between hosts within a cluster.

The solution must support resource management priorities.

The solution must support the ability to connect virtual machines directly to LUNs.

The solution should use existing IPv4 based network infrastructure.

There is no budget for additional physical hardware.

Which two design decisions could the architect make to meet these requirements? (Choose two.)

- A. The ESXi hosts will leverage Fibre Channel (FC)
- B. The ESXi hosts will leverage NFS 3
- C. The ESXi hosts will leverage Fibre Channel over Ethernet (FCoE)
- D. The ESXi hosts will leverage iSCSI
- E. The ESXi hosts will leverage NFS 4.1

Correct Answer: DE

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

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