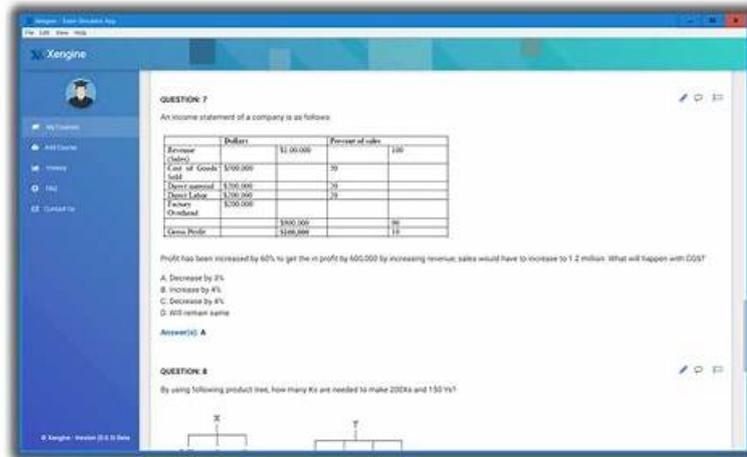


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VMware vSphere 8.x Advanced Design Sample Questions (Q26-Q31):

NEW QUESTION # 26

An architect is designing a new vSphere-based solution for a customer. During a requirement gathering workshop, the following information is provided:
The solution must have a primary and secondary site.
The solution must support a maximum of 1,000 concurrent workloads.
The profile of the workloads are as follows:

- Production Workloads
 - 300 x Small: 1 vCPU, 2 GB RAM
 - 400 x Medium: 2 vCPU, 6 GB RAM
 - 100 x Large: 4 vCPU, 8 GB RAM
- Development Workloads

-- 200 x Small: 1 vCPU, 2 GB RAM

The corporate security policy states that, during normal operations, production workloads must be physically segregated from development workloads.

All production workloads are split evenly across the primary and secondary site.

All development workloads run only within the secondary site.

In the event of a disaster affecting workloads in the primary site, the secondary site must be capable of running all production and development workloads.

The vCPU to physical core ratio should be a maximum of 10:1 for production workloads and 20:1 for development workloads.

The solution should provide a minimum of N + 1 resiliency at each component level.

The target physical host hardware platform has already been defined by the company's hardware standards and therefore each host has the following configuration:

-- 2 x 24 physical cores

-- 768 GB RAM

-- 2 x 100 GB SSD drives

-- 6 x 10 GbE network cards

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

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

1. Production Workloads:

300 x Small: 1 vCPU, 2 GB RAM

400 x Medium: 2 vCPU, 6 GB RAM

100 x Large: 4 vCPU, 8 GB RAM

Total vCPUs required for production:

Small: $300 \times 1 = 300$ vCPUs

Medium: $400 \times 2 = 800$ vCPUs

Large: $100 \times 4 = 400$ vCPUs

Total production vCPUs = $300 + 800 + 400 = 1,500$ vCPUs

2. Development Workloads:

200 x Small: 1 vCPU, 2 GB RAM

Total vCPUs required for development:

Small: $200 \times 1 = 200$ vCPUs

3. Workload Distribution:

Production workloads are split evenly across the primary and secondary site: 750 vCPUs per site ($1,500/2$).

All development workloads run in the secondary site: 200 vCPUs.

4. vCPU to Physical Core Ratio:

Production workloads: 10:1 ratio (vCPU to core ratio).

Development workloads: 20:1 ratio (vCPU to core ratio).

5. Hosts Configuration:

Each host has 24 physical cores and 768 GB of RAM.

Since the maximum vCPU-to-core ratio for production is 10:1, each host can support 240 vCPUs ($24 \text{ cores} \times 10$).

For development, with a ratio of 20:1, each host can support 480 vCPUs ($24 \text{ cores} \times 20$).

6. Host Calculation:

Production Workloads (750 vCPUs per site):

750 vCPUs for production divided by 240 vCPUs per host = 3.125 hosts (rounding up = 4 hosts per site for production).

Development Workloads (200 vCPUs):

200 vCPUs divided by 480 vCPUs per host = 0.416 hosts (rounding up = 1 host for development).

7. Resiliency:

N + 1 resiliency means we need one extra host per site to provide redundancy.

8. Total Hosts:

4 hosts for production in the primary site.

4 hosts for production in the secondary site.

1 host for development in the secondary site.

1 additional host for N + 1 resiliency in both sites.

Total hosts required= 4 (primary production) + 4 (secondary production) + 1 (secondary development) + 2 (N + 1) =12 hosts.

NEW QUESTION # 27

A Cloud Service Provider wants to introduce backup as a service for a customer's vSphere-based virtual machines. The following information is noted:

- They have a single four-port (2 × 10 GbE and 2 × 1 GbE) NIC per ESXi host
- 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. Match the Class of Service (CoS) and Differentiated Services Code Point (DSCP) values to the physical network
- B. Enable and tag traffic on the backup distributed port group
- C. Create a new virtual switch using the 1 GbE uplinks
- D. Add a new two-port 10 GbE NIC per ESXi host
- E. Replace the existing NIC with a two-port 25 GbE NIC per ESXi host

Answer: A,B

NEW QUESTION # 28

Which four factors should an architect consider when calculating the number of hosts required for a new multi-site vSphere-based solution that utilizes external storage? (Choose four.)

- A. The future physical location of any workloads
- B. The number of network connections per physical host server
- C. The hardware specification of the underlying infrastructure
- D. The number of existing workloads that will be decommissioned prior to the completion of project
- E. The amount of resources required for virtual machine (VM) swap and VM snapshots
- F. The number of existing workloads that will be migrated onto the new solution
- G. The workload profile (CPU and memory) of each workload

Answer: A,D,F,G

NEW QUESTION # 29

An architect is tasked with designing a greenfield VMware software-defined data center (SDDC) solution that will be used to deliver a private cloud service for a customer.

During the initial meeting with the service owner and business sponsor, the customer has provided the following information to help inform the design:

- The solution must initially support the concurrent running of 300 production and 600 development virtual machines.
- The production environment should be delivered across two geographically dispersed data centers.

The development environment must be vSphere-based but does not have to be deployed on-premises.

- The two data centers are connected to each other through multiple diversely routed, high bandwidth and low latency links.
- The customer's server hardware standard document states that all virtual infrastructure hosts must be based on blade architecture only.
- The service owner has said that is important to ensure that neither the availability target of 99.5% nor the resource capacity is affected when the operations team completes maintenance activities, such as the monthly software patching and ad-hoc hardware break/fix.
- All virtual machine backups must be completed using the existing backup service.
- The recovery time objective (RTO) for the service is four hours.
- The recovery point objective (RPO) of the service is 24 hours.

Given the information from the customer, which two would be classified as assumptions within the design? (Choose two.)

- A. All virtual machines will be deployed with the same resource profile for production and development
- B. The backup service will store data in a secure facility
- C. The customer will update their hardware standard to support rack mount servers
- D. The clusters will have a minimum redundancy of N+1

- E. The backup service has sufficient capacity for the new requirements

Answer: D,E

NEW QUESTION # 30

What is the purpose of creating a vSphere host logical design?

- A. To determine the hardware and infrastructure requirements for vSphere hosts.
- B. To provide an abstract representation of vSphere hosts and their interrelationships.
- C. To identify the specific tasks and operations vSphere hosts should perform.
- D. To ensure the design meets the required industry regulations and standards.

Answer: B

NEW QUESTION # 31

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