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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	• IT Architectures, Technologies, Standards: This section of the exam measures the skills of IT Architects and covers differentiating between business and technical requirements, as well as conceptual, logical, and physical design. A key skill measured is "Designing System Availability."
Topic 2	• Plan and Design the VMware Solution: This part targets Solution Designers, evaluating their ability to gather business objectives, create conceptual models based on these objectives, develop logical designs, and translate them into physical designs that meet specific requirements like manageability or security.

Topic 3	• VMware Products and Solutions: Targeting VMware Engineers, this section describes VMware Cloud Foundation architecture, its components like vSphere and NSX, benefits such as automation and scalability, and use cases like hybrid cloud environments. It assesses understanding of VMware Validated Solutions.

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VMware vSphere 8.x Advanced Design Sample Questions (Q39-Q44):

NEW QUESTION # 39
When configuring a vSphere High Availability (HA) cluster, which network redundancy option is recommended to ensure the availability of HA functionality even during a single network link failure?

- A. Management Network Override
- B. Fault Tolerance (FT)
- C. Network Load Balancing (NIC Teaming)
- D. Link Aggregation Control Protocol (LACP)

Answer: A

NEW QUESTION # 40
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. vSGA
- B. AMD MxGPU
- C. NVIDIA vGPU
- D. vSphere DirectPath I/O
- E. vSphere Bitfusion

Answer: C,E

Explanation:
https://blogs.vmware.com/apps/2018/07/using-gpus-with-virtual-machines-on-vsphere-part-1- overview.html

NEW QUESTION # 41
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: C

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 x 1 = 300 vCPUs
Medium: 400 x 2 = 800 vCPUs
Large: 100 x 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 x 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 cores x 10).
For development, with a ratio of 20:1, each host can support 480 vCPUs (24 cores x 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 # 42

An architect is designing the virtual networking components of a vSphere-based solution that will provide an environment for the development of a new latency sensitive stock trading application.

The following information was identified within the initial meeting with the customer:

The customer has vCenter Standard and vSphere Standard licenses left over from a previous project.

The customer's CFO has approved budget for additional purchases, if required.

The following requirements were also identified during the meeting:

The solution must support 500 development workloads concurrently running in the secondary site.

The solution must support the ability to complete all vSphere Operational Management centrally.

The solution must ensure business-critical applications are not impacted by vSphere system-level operations.

Given the requirements, the architect has decided on a single 20-node cluster for development.

Which three additional design decisions should the architect make to meet these requirements? (Choose three.)

- A. The solution willdeploy a single VMware Standard Switch that will be configured identically on each host.
- B. The solution willdeploy VMware vSphere Standard on all hosts within the cluster.
- C. The solution will configure Network I/O control to ensure that system-level bandwidth does not impact workload network traffic.
- D. The solution will deploy a single vSphere Distributed Switch with each host connected to it.
- E. The solution willconfigure Traffic Shaping policies to restrict network bandwidth on ingress and egress.
- F. The solution willdeploy VMware vSphere Enterprise Plus on all hosts within the cluster.

Answer: C,D,F

Explanation:

The solution will deploy VMware vSphere Enterprise Plus on all hosts within the cluster.

VMware vSphere Enterprise Plus offers advanced networking and storage features that will support the required high availability, performance, and management capabilities. Features such as Distributed Switches and Network I/O Control (NIOC) are critical to meeting the business-critical application and performance requirements for the latency-sensitive stock trading application.

The solution will deploy a single vSphere Distributed Switch with each host connected to it.

A vSphere Distributed Switch (VDS) is ideal for managing network configurations centrally across multiple hosts, which meets the requirement for centralized vSphere operational management. It also ensures consistent network configurations and simplifies network management at scale.

The solution will configure Network I/O control to ensure that system-level bandwidth does not impact workload network traffic.

Network I/O Control (NIOC) is essential for prioritizing network traffic, ensuring that latency-sensitive workloads are not impacted by other system-level or less critical traffic. This is crucial for the performance requirements of the stock trading application.

NEW QUESTION # 43

What are assumptions in the context of design?

- A. Specific tasks and operations the design must perform.
- B. Potential risks that could negatively impact the design's success.
- C. Constraints imposed by industry regulations and standards.
- D. Unverified beliefs or presuppositions that guide the design process.

Answer: D

NEW QUESTION # 44

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