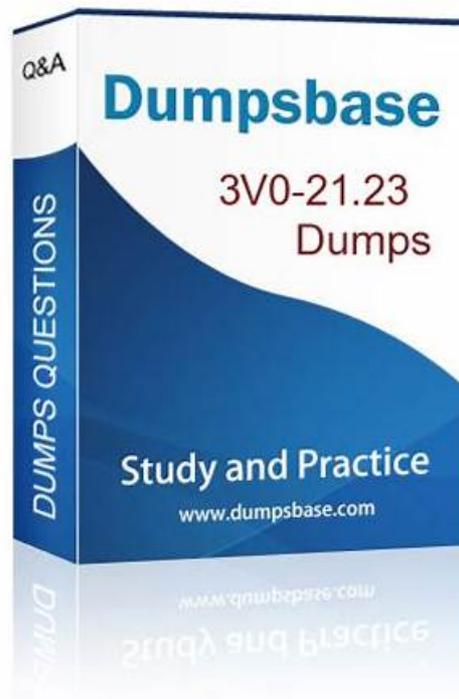


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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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 3	<ul style="list-style-type: none">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.

VMware vSphere 8.x Advanced Design Sample Questions (Q23-Q28):

NEW QUESTION # 23

An architect is designing a series of new vSphere environments for an organization. The environments will be deployed in their US-East and US-West region data centers. Each data center may have one or more dedicated vSphere environments. Only the vSphere environments within a data center will be configured with Enhanced Linked Mode. The Chief Technology Officer (CTO) has authorized the use of VMware vRealize Automation Cloud for automation. The build team creates standardized virtual machine images for various operating systems in Open Virtualization Format (OVF) and publishes the latest version on an as-needed basis to an internal HTTPS-accessible repository.

The architect must design a content library topology that meets the following requirements:

- A localized content library must be available in each data center.
- Each content library must be updated when an image is updated and released by the build team.
- The cloud automation platform must be able to consume the latest approved content library images.
- It must leverage the existing build team processes.

What should the architect recommend to meet the requirements?

- A. Work with the build team to create a local content library for each vSphere environment. Import the OVF images when new image are published to the repository.
- **B. Create a local content library for the primary vSphere environment in each data center. Create a subscribed content library for each additional vSphere environment in each data center. Configure the content library to download content automatically.**
- C. Work with the build team to automate a JSON-based manifest to the repository when changes occur in the repository. Create a subscribed content library for each vSphere environment. Configure the content library to download content automatically.
- D. Work with the build team to automate a JSON-based manifest to the repository when changes occur in the repository. Create a subscribed content library for each vSphere environment. Configure the content library to download content when needed.

Answer: B

NEW QUESTION # 24

What does addressing scalability requirements involve in a vSphere design?

- A. Identifying potential risks and threats to the scalability of the vSphere environment.
- B. Creating a logical representation of the vSphere host's structure and components.
- **C. Ensuring that the vSphere hosts can handle increased workloads and growing demands.**
- D. Determining the expected levels of system performance and responsiveness.

Answer: C

NEW QUESTION # 25

An architect is tasked with reviewing the design of a VMware software-defined data center (SDDC) for a software development company. The platform is used to developing applications and services. It is important that the customer be able to accurately benchmark performance of developed applications.

The platform has recently commissioned new hosts to update the development cluster.

The development cluster host configuration is:

- 4 ESXi hosts with 2 sockets × 16 cores
- 512 GB RAM divided evenly between sockets
- There is no resource contention

The benchmarking cluster host configuration is:

- 8 ESXi hosts with 2 sockets × 8 cores
- 256 GB RAM divided evenly between sockets
- There is no resource contention

The customer is developing an application that includes a database virtual machine. The application developer states that the database virtual machine performs as required only when allocated 8 vCPUs 256 GB RAM. The database virtual machine performance meets the required levels when run from the development cluster. Performance benchmarking for the database virtual machine yields highly variable results when run from the benchmarking cluster. The application cannot be released without reliable performance benchmarking data.

What is a possible reason for the difference in performance test results between the development and benchmarking clusters?

- A. The database tier breaches a single NUMA node boundary for the development cluster
- B. The development cluster can support a lower %Ready time per vCPU
- C. The development cluster has more available RAM per host
- D. The database tier breaches a single NUMA node boundary for the benchmarking cluster

Answer: D

Explanation:

Benchmarking cluster will end up using both Physical VCPU. Since required vCPUs are 8 and 256GB memory hence well suited for single NUMA node on development cluster.

<https://blogs.vmware.com/performance/2017/03/virtual-machine-vcpu-and-vnuma-rightsizing-rules-of-thumb.html>

NEW QUESTION # 26

A customer has a database cluster with 40/60 read/write ratio and a high IOPs requirement with no contention on an all-flash vSAN cluster.

Which two storage settings should be configured for best performance? (Choose two.)

- A. Deduplication and Compression enabled
- B. RAID 5/6
- C. IOPs limits enabled
- D. RAID 1
- E. Deduplication and Compression disabled

Answer: D,E

NEW QUESTION # 27

An architect is designing a new vSphere-based solution for a customer.

During a requirements gathering workshop, the following information is provided:

The solutions must provide a recovery point objective (RPO) of 15 minutes.

The solution must have a primary and secondary site.

The solution must support orchestration to address application dependencies.

Which two solutions should the architect include in the design to meet these requirements? (Choose two.)

- A. vSAN stretched cluster
- B. vSphere Fault Tolerance
- C. vSphere HA
- D. Site Recovery Manager
- E. vSphere Replication

