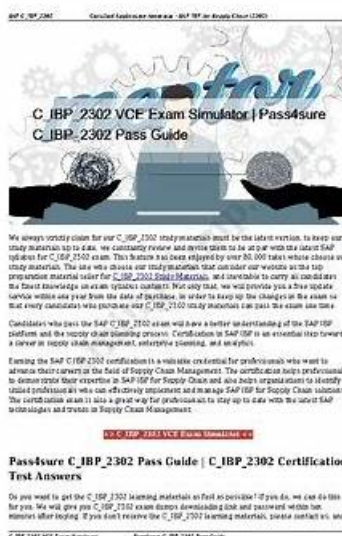


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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	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	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.
Topic 3	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."

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VMware vSphere 8.x Advanced Design Sample Questions (Q92-Q97):

NEW QUESTION # 92

An architect is responsible for the lifecycle management design for a brownfield vSphere-based solution.

The following information has been provided during initial meetings around the new solution:

Existing heterogeneous server hardware will be used to provide the hosting platform.

The available hardware is:

- 10 servers that contain 2 x 20-Core Intel Xeon processors and 512 GB RAM from Vendor A
 - 10 servers that contain 2 x 24-Core Intel Xeon processors and 768 GB RAM from Vendor A
 - 20 servers that contain 2 x 16-Core AMD EPYC processors and 512 GB RAM from Vendor B
 - 10 servers that contain 1 x 24-Core AMD EPYC processors and 256 GB RAM from Vendor C
- All of the hardware is currently listed on the VMware Hardware Compatibility List (HCL).

All existing server hardware has 36 months vendor support remaining.

The requirements from the customer are:

REQ001 - The solution must support the hosting of 5,000 workloads across two physical sites.

REQ002 - The solution should minimize the number of clusters.

REQ003 - The solution must ensure that there is no impact to service when completing upgrades.

Given the resource requirements needed for the solution, the architect has calculated that all of the existing servers will be required to provide sufficient resources for the new environment. The Intel-based servers will be deployed to the primary site and the AMD-based servers will be deployed to the secondary site.

Which four additional design decisions should the architect make to ensure all requirements can be met?

(Choose four.)

- A. The solution will use VMware SDDC Manager to perform lifecycle management of the solution.
- B. The solution will ensure each vSphere cluster is configured with Distributed Power Management (DPM).
- C. The solution will use vSphere Lifecycle Manager images to update and upgrade vSphere ESXi hosts in the primary site.
- D. The solution will use vSphere Lifecycle Manager images to update and upgrade vSphere ESXi hosts in the secondary site.
- E. The solution will use vSphere Lifecycle Manager baselines to perform patching and upgrading of vSphere ESXi hosts in the secondary site.
- F. The solution will create an Intel-based 20-node vSphere cluster in the primary site and an AMD-based 30-node vSphere cluster in the secondary site.
- G. The solution will ensure each vSphere cluster supports a minimum of N + 1 redundancy.

Answer: A,C,D,G

Explanation:

The solution will use VMware SDDC Manager to perform lifecycle management of the solution.

VMware SDDC Manager provides centralized lifecycle management for a vSphere-based environment, especially in VMware

Cloud Foundation. This is crucial for automating and streamlining updates, upgrades, and patches, ensuring that the solution remains operational during lifecycle events and that there is no service impact during these processes.

The solution will ensure each vSphere cluster supports a minimum of $N + 1$ redundancy.

Ensuring $N + 1$ redundancy within each cluster will provide high availability and fault tolerance. This means that each cluster will have enough capacity to continue operating even if one host fails, meeting the requirement to avoid service disruption during host failures or maintenance activities.

The solution will use vSphere Lifecycle Manager images to update and upgrade vSphere ESXi hosts in the secondary site. vSphere Lifecycle Manager (vLCM) images allow for consistent and automated management of ESXi host configurations and upgrades. By using images, the architect ensures that all hosts in the secondary site are aligned with the required configuration for upgrades, thus simplifying the process and minimizing downtime during upgrades.

The solution will use vSphere Lifecycle Manager images to update and upgrade vSphere ESXi hosts in the primary site. Just like for the secondary site, using vLCM images in the primary site ensures that the Intel-based servers are configured consistently and updated seamlessly. This approach minimizes service disruption and ensures smooth upgrades for all hosts in the primary site.

NEW QUESTION # 93

What is the maximum number of vCPUs that can be assigned to a virtual machine in a vSphere 7.x environment?

- A. It depends on the number of physical CPU cores in the host.
- B. 0
- C. 1
- D. 2

Answer: A

NEW QUESTION # 94

What does "Scalability" mean in the context of the AMPRSS framework?

- A. Optimizing the system for efficient resource utilization.
- B. Ensuring that the system is protected against security threats.
- C. The system's capability to recover from failures and errors.
- D. The ability of the system to handle increasing amounts of data.

Answer: D

NEW QUESTION # 95

An architect is updating an existing design to include a new vSphere cluster to meet the following customer requirements:

The solution must provide automatic load redistribution of workloads across all resources in the cluster

The solution must consider the usage patterns of workloads when performing load redistribution

The solution must provide capacity to reserve resources equal to two ESXi hosts for failover in the event of a host failure

The architect has also collected the following assumptions and constraints during the design workshops:

A001 - Budget is available for additional hardware and software if required to meet the solution requirements

A002 - Capacity is available to allow the deployment of additional tooling to manage the solution

C001 - All management workloads must be deployed to the existing vSphere management cluster

Which three design decisions should the architect include to meet the documented requirements? (Choose three.)

- A. The solution will enable the VM Distribution option to avoid host over-commitment.
- B. The solution will deploy a Distributed Resource Scheduler (DRS) enabled cluster with sufficient capacity to meet the workload demands.
- C. The solution will deploy a vSphere Distributed Power Management (DPM) enabled cluster with sufficient capacity to meet the workload demands.
- D. The solution will enable the Memory Metric for Load Balancing option to avoid host over-commitment.
- E. The solution will enable the Predictive DRS option to avoid host over-commitment.
- F. The solution will deploy VMware Aria Operations to monitor the vSphere environment.

Answer: B,C,E

Explanation:

The solution will enable the Predictive DRS option to avoid host over-commitment.

Enabling Predictive DRS will allow the system to proactively adjust resource distribution based on anticipated workload patterns. This helps ensure that workloads are redistributed dynamically to avoid over-commitment and ensures better performance, particularly when considering workload usage patterns.

The solution will deploy a Distributed Resource Scheduler (DRS) enabled cluster with sufficient capacity to meet the workload demands.

DRS (Distributed Resource Scheduler) will be used to automatically redistribute workloads across the cluster resources, ensuring balanced load distribution. It meets the requirement for automatic load redistribution while also considering workload usage patterns. Additionally, DRS will take into account the capacity needed to reserve resources equal to two ESXi hosts for failover in the event of a host failure.

The solution will deploy a vSphere Distributed Power Management (DPM) enabled cluster with sufficient capacity to meet the workload demands.

vSphere DPM enables the cluster to automatically adjust the number of active hosts based on the workload demands, ensuring efficient resource usage. It helps meet the requirement for ensuring capacity for failover by turning off unneeded hosts and allowing the remaining hosts to handle the workload.

NEW QUESTION # 96

A customer defines a requirement to minimize the vMotion migration time during a maintenance period. The servers being used are equipped with eight 1 GbE network adapters.

Per the defined logical network configuration, there are two network adapters each used for:

- Management traffic
- vMotion traffic
- iSCSI traffic
- Virtual machine traffic

Which design decision should the architect make to meet the customer requirement?

- A. Configure a dedicated TCP/IP stack for vMotion traffic.
- B. Combine vMotion and Management traffic to make use of four adapters.
- **C. Implement Multi-NIC vMotion by adding additional vMotion VMkernels.**
- D. Use Network I/O Control to define a reservation for vMotion traffic.

Answer: C

Explanation:

We maintain the 2 x 1 GbE network adapters for vMotion and then configure multiple VMkernel interfaces using the same NIC and network. Each time you add a VMkernel adapter and enable it for vMotion, you create a new stream. With more streams, there is greater bandwidth utilization.

NEW QUESTION # 97

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