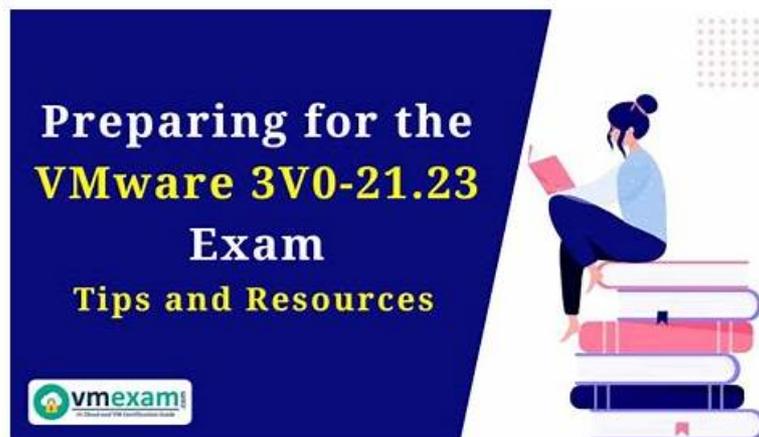


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VMware 3V0-21.23 Exam Syllabus Topics:

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"> 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."

VMware vSphere 8.x Advanced Design Sample Questions (Q76-Q81):

NEW QUESTION # 76

During a requirements gathering workshop, the customer's Chief Information Security Office (CISO) provides the following requirements that are pertinent to the design of a new vSphere environment:

- All operating system critical patches must be installed within 24 hours of release.
- All virtual machine templates must be updated every three months in line with company policy.

Which requirement classification is being gathered for the design documentation?

- **A. Manageability**
- B. Recoverability
- C. Security
- D. Availability

Answer: A

Explanation:

Lifecycle management and patch definition is covered by Manageability Nonfunctional requirement.

<https://securityboulevard.com/2020/12/building-non-functional-requirements-framework-requirements-categories/>

NEW QUESTION # 77

An architect decides to separate virtual desktops and application servers into separate vSphere clusters to meet security and management requirements.

What are two implications of this design decision- (Choose two.)

- **A. There will be an increase in management overhead.**
- B. There will be a reduction in performance.
- C. Identical hardware must be procured for all hosts.
- **D. There will be additional licensing and cost requirements for both clusters.**
- E. The patching cycles will affect both clusters at the same time.

Answer: A,D

Explanation:

A: There will be an increase in management overhead. - multiple clusters to manage B: Identical hardware must be procured for all hosts. - separate clusters so hardware can be very different C: There will be a reduction in performance. - there would be a performance increase in segregation D: The patching cycles will affect both clusters at the same time. - this is not true.

E: There will be additional licensing and cost requirements for both clusters. - process of elimination leaves this

NEW QUESTION # 78

An architect is designing a new VMware software-defined data center (SDDC) that will consist of 100 branch sites connected to a single VMware vCenter Server within the primary data center. To allow for the use of existing automation scripts, there is a requirement to replicate the names of the virtual distributed port groups across all sites. The procurement team purchases licensing and there is no further budget allocated.

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

- A. A new host and cluster folder will be created for each branch site
- **B. A new virtual data center will be created for each branch site**
- C. A new vCenter Server will be deployed for each branch site
- D. The automation script will be updated to reflect unique naming for each site

Answer: B

NEW QUESTION # 79

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

Answer: A,E

Explanation:

Based on VMware vSphere 8.x Advanced documentation, the architect is designing a vSphere-based solution to meet three specific requirements: a recovery point objective (RPO) of 15 minutes, a primary and secondary site, and support for orchestration to address application dependencies. The solution must include two VMware technologies that collectively satisfy these requirements.

Requirements Analysis:

* Recovery Point Objective (RPO) of 15 minutes: The solution must ensure that no more than 15 minutes of data is lost in a disaster, requiring frequent data replication or synchronization between sites.

* Primary and secondary site: The solution must support a disaster recovery (DR) architecture with two distinct sites, implying replication or failover capabilities between them.

* Orchestration to address application dependencies: The solution must provide automated recovery workflows to manage the startup order and dependencies of multi-tier applications (e.g., ensuring a database starts before an application server).

Evaluation of Options:

* A. vSAN stretched cluster:

* Why incorrect: A vSAN stretched cluster provides high availability and disaster recovery by synchronously replicating data across two sites, achieving near-zero RPO and RTO. However, it is designed for high-availability scenarios within a single vSphere cluster spanning sites, not traditional DR with orchestration. vSAN stretched clusters do not natively provide orchestration for application dependencies (e.g., automated recovery plans or startup order), which is a key requirement. Additionally, stretched clusters require low-latency, high-bandwidth connections (typically <5ms RTT), which is not guaranteed in the provided information. This option does not fully meet the orchestration requirement.

* B. vSphere HA:

* Why incorrect: vSphere High Availability (HA) provides automatic VM restarts within a cluster in case of host failures, but it operates within a single site and does not support replication or failover between primary and secondary sites. vSphere HA does not address the 15-minute RPO requirement, as it does not replicate data, nor does it provide orchestration for application dependencies across sites. This option is unsuitable for a multi-site DR scenario.

* C. Site Recovery Manager:

* Why correct: VMware Site Recovery Manager (SRM) is a disaster recovery solution designed for automated failover and failback between primary and secondary sites. SRM supports orchestration of recovery plans, allowing the architect to define the startup order and dependencies of multi-tier applications (e.g., starting a database before an application server).

When paired with vSphere Replication, SRM can achieve an RPO of 15 minutes by orchestrating the failover of replicated VMs. SRM meets the requirements for primary/secondary site support, orchestration for application dependencies, and integration with replication technologies to achieve the required RPO.: VMware vSphere 8 documentation highlights SRM for automated DR orchestration, supporting recovery plans and integration with vSphere Replication for site-to-site failover.

D: vSphere Fault Tolerance:

Why incorrect: vSphere Fault Tolerance (FT) provides continuous availability by maintaining a live secondary VM on another host within the same site, with zero RPO and RTO for host failures. However, FT is not designed for multi-site disaster recovery, as it operates within a single cluster and does not replicate data between sites. FT also lacks orchestration capabilities for application dependencies and is resource-intensive, unsuitable for large-scale DR scenarios. This option does not meet the multi-site or orchestration requirements.

E: vSphere Replication:

Why correct: vSphere Replication is a hypervisor-based replication solution that asynchronously replicates VMs from a primary site to a secondary site, supporting an RPO as low as 15 minutes. It integrates with SRM to provide orchestrated recovery, ensuring application dependencies are addressed through SRM's recovery plans. vSphere Replication meets the 15-minute RPO requirement and supports the primary/secondary site architecture by enabling data replication. When used with SRM, it provides a complete DR solution.

Reference: VMware vSphere 8 documentation confirms vSphere Replication supports RPOs of 15 minutes or less and integrates with SRM for orchestrated recovery.

Why C and E are the Best Choices:

Site Recovery Manager (C): SRM provides the orchestration needed to manage application dependencies during failover, defining recovery plans that ensure the correct startup order for multi-tier applications. It automates DR processes between primary and secondary sites, meeting the multi-site requirement.

vSphere Replication (E): vSphere Replication ensures data is replicated between sites with an RPO of 15 minutes, meeting the data loss requirement. It works seamlessly with SRM to enable orchestrated failover, completing the DR solution.

Combined Solution: SRM and vSphere Replication together provide a comprehensive DR solution that addresses all requirements: 15-minute RPO, primary/secondary site support, and orchestration for application dependencies.

Why Not A, B, or D?

vSAN stretched cluster (A): While it supports near-zero RPO, it lacks native orchestration for application dependencies and assumes low-latency site connectivity, which is not specified.

vSphere HA (B): Limited to single-site host failure recovery, it does not support multi-site DR, replication, or orchestration.

vSphere Fault Tolerance (D): Designed for single-site, host-level availability, not multi-site DR or orchestration.

Example Implementation:

vSphere Replication: Configure replication for VMs from the primary site to the secondary site, setting an RPO of 15 minutes.

Site Recovery Manager: Deploy SRM at both sites, integrated with vSphere Replication. Create recovery plans specifying the startup order for applications (e.g., database VMs before application VMs) to address dependencies.

vCenter: Use a vCenter instance at each site to manage replication and recovery, with SRM orchestrating failover.

NEW QUESTION # 80

The Chief Operating Officer (COO) at an organization raises concerns that their virtual infrastructure environment is vulnerable. Recently, a security-related issue with a virtual machine caused all management services to become unavailable. No budget is available in the short term for additional platform investment. An architect is asked to review the current environment and make recommendations to mitigate concerns.

A virtualization administrator has provided the following details:

- There is a single four node cluster of ESXi servers
- There are two, Layer 2, physical network switches connecting resources
- The data center network is presented as a single /16 subnet

Given the information provided, which functional requirement should the architect include in the design to mitigate the COOs concerns?

- A. The virtual infrastructure environment must connect application virtual machines and management services to new physical network switches
- B. The virtual infrastructure environment must connect management services to a vSphere standard switch (VSS)
- **C. The virtual infrastructure environment must connect application virtual machines and management services to separate VLANs**
- D. The virtual infrastructure environment must connect application virtual machines and management services to separate distributed virtual switches (DVS)

Answer: C

Explanation:

VLANs let you segment a network into multiple logical broadcast domains at Layer 2 of the network protocol stack.

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.networking.doc/GUID-C42AFA4A-1BDA-4ECC-B2D1-6E538771B2C3.html>

NEW QUESTION # 81

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