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VMware 3V0-21.23 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q18-Q23):

NEW QUESTION # 18

An architect is documenting the design for a new multi-site vSphere solution. The customer has informed the architect that the workloads hosted on the solution are managed by application teams, who must perform a number of steps to return the application to service following a failover of the workloads to the secondary site.

These steps are defined as the Work Recovery Time (WRT). The customer has provided the architect with the following information about the workloads:

Critical workloads have a WRT of 12 hours

Production workloads have a WRT of 24 hours

Development workloads have a WRT of 24 hours

All workloads have an RPO of 4 hours

Critical workloads have an RTO of 1 hour

Production workloads have an RTO of 12 hours

Development workloads have an RTO of 24 hours

The customer has also confirmed that the Disaster Recovery solution will not begin the recovery of the development workloads until all critical and production workloads have been recovered at the secondary site.

What would the architect document as the maximum tolerable downtime (MTD) for each type of workload in the design?

- A. Critical Workloads: 13 hours Production Workloads: 36 hours Development Workloads: 48 hours
- B. Critical Workloads: 12 hours Production Workloads: 24 hours Development Workloads: 24 hours
- **C. Critical Workloads: 13 hours Production Workloads: 36 hours Development Workloads: 60 hours**
- D. Critical Workloads: 16 hours Production Workloads: 28 hours Development Workloads: 28 hours

Answer: C

NEW QUESTION # 19

What does gathering and analyzing non-functional requirements involve?

- A. Identifying the virtual machines and cores needed for the vSphere environment.
- B. Determining the specific tasks and operations the vSphere system should perform.
- C. Optimizing the data storage and retrieval processes for the vSphere environment.
- **D. Evaluating aspects such as security, performance, and disaster recovery for the vSphere design.**

Answer: D

NEW QUESTION # 20

What is a benefit of using workload domains in VMware Cloud Foundation?

- A. Workload domains allow for manual provisioning of vSphere clusters using the SDDC Manager.
- B. Workload domains require separate instances of vCenter, decreasing complexity and management overhead.
- C. Each workload domain can only support a maximum of three ESXi hosts, making it easy to manage small workloads.
- **D. Workload domains are pre-configured and automatically deployed according to industry best practices for SDDC implementation.**

Answer: D

Explanation:

Based on VMware vSphere 8.x Advanced documentation and VMware Cloud Foundation (VCF) resources, the architect needs to identify the benefit of using workload domains in a VCF environment. Workload domains are a core construct in VCF, designed to simplify the deployment and management of Software-Defined Data Center (SDDC) components, including vSphere, vSAN, NSX, and vCenter.

Analysis of Workload Domains in VCF:

Workload Domains: In VCF, workload domains are logical units that group compute, storage, and networking resources to host specific workloads (e.g., production, development, or DMZ). They include a vSphere cluster, vSAN storage, NSX networking, and a dedicated vCenter instance, managed through the SDDC Manager.

Purpose: Workload domains provide isolation, scalability, and simplified management by automating the deployment and configuration of SDDC components according to VMware's best practices.

Evaluation of Options:

A). Workload domains require separate instances of vCenter, decreasing complexity and management overhead:

Why incorrect: While workload domains do include a dedicated vCenter instance for each domain to ensure isolation and independent management, this increases management overhead rather than decreasing it. Each vCenter instance requires separate administration, monitoring, and patching, which adds complexity compared to a single vCenter managing multiple clusters. This is not a benefit.

VMware Cloud Foundation documentation notes that separate vCenter instances per workload domain enhance isolation but increase management tasks.

B). Workload domains allow for manual provisioning of vSphere clusters using the SDDC Manager:

Why incorrect: Workload domains are provisioned automatically through the SDDC Manager, not manually.

The SDDC Manager automates the creation, configuration, and deployment of workload domains based on predefined templates and policies, reducing manual effort. Manual provisioning contradicts VCF's automation-centric approach.

Reference: VMware Cloud Foundation documentation emphasizes automated provisioning of workload domains via SDDC Manager.

C). Workload domains are pre-configured and automatically deployed according to industry best practices for SDDC implementation:

Why correct: This is a key benefit of workload domains in VCF. Workload domains are automatically deployed by the SDDC Manager with pre-configured settings for vSphere, vSAN, NSX, and vCenter, adhering to VMware's validated best practices for SDDC implementation. This ensures consistency, reliability, and optimized performance while reducing deployment time and errors. The automation and adherence to best practices simplify the creation of isolated, scalable environments for workloads, making this the primary benefit.

Reference: VMware Cloud Foundation documentation highlights workload domains as pre-configured, automated constructs that follow VMware Validated Designs for SDDC.

D). Each workload domain can only support a maximum of three ESXi hosts, making it easy to manage small workloads:

Why incorrect: Workload domains in VCF are not limited to three ESXi hosts. They can support multiple hosts (typically 3 to 64, depending on the configuration and licensing), allowing scalability for various workload sizes. This option inaccurately describes workload domain capabilities and does not reflect a benefit, as it imposes a false limitation.

Reference: VMware Cloud Foundation documentation specifies that workload domains can scale to support large clusters, not just small workloads.

Why C is the Best Choice:

Automation and best practices: Workload domains are a hallmark of VCF's automated deployment model, using SDDC Manager to provision pre-configured vSphere clusters, vSAN storage, and NSX networking according to VMware Validated Designs. This ensures consistency, reduces manual configuration errors, and aligns with industry best practices for SDDC.

Simplified deployment: The pre-configured nature of workload domains accelerates deployment, providing a standardized, repeatable process that benefits both small and large-scale environments.

Alignment with VCF: This benefit directly supports VCF's value proposition of delivering a fully integrated, automated SDDC with minimal operational overhead for deployment.

NEW QUESTION # 21

An architect is tasked with designing a new VMware software-defined data center (SDDC) solution for an online retail customer who has a primary and secondary data center as well as 10 distribution hubs.

The customer has provided the following business requirements to help inform the design:

- The solution must support the running of up to 1,000 concurrent virtual machines across the primary and secondary data center.
- The solution must support the running of up to 20 concurrent virtual machines in each distribution hub.
- The solution must support the separation of management and lines-of-business application virtual machines.
- All management components (including directory services, backup, automation, operations and logging) must be deployed to the primary data center.
- All virtual infrastructure components must have redundancy of N+1.
- All sites are connected to each other using a wide area network that has multiple diversely routed links.
- The solution should support a monthly uptime target of 99.9%.
- The recovery time objective (RTO) for the solution must be four hours.
- The recovery point objective (RPO) for the solution must be 24 hours.

Given the information from the customer, which assumption should the architect include in the design?

- A. Each cluster will have a minimum of four hosts.
- B. All business application virtual machines can be deployed into a single cluster within the primary data center.
- C. Each distribution hub should be configured with a backup device.
- **D. The wide area network has sufficient bandwidth to support centralized management.**

Answer: D

Explanation:

As centralised management is needed from the primary datacenter and also backup deployment must be within primary DC so need to ensure enough bandwidth for this.

NEW QUESTION # 22

An architect is creating a design for a new vSphere solution to meet the following business requirement:

REQ001 - Reduce operational expenditure

Which design decision could the architect include in the logical design to satisfy this requirement?

- **A. Use vSphere Lifecycle Manager on all clusters.**
- B. Use vSphere Standard licenses on all clusters.
- C. Use heterogeneous hardware for the hosts in all clusters.
- D. Use an N + 1 design to define the required capacity on all clusters.

Answer: A

Explanation:

vSphere Lifecycle Manager helps reduce operational expenditure (OPEX) by automating the patching and management of the vSphere environment. It provides centralized management for host updates, ensuring consistency across the environment and reducing the manual effort required for ongoing operations. This leads to reduced operational overhead, which directly addresses the requirement to reduce OPEX.

NEW QUESTION # 23

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