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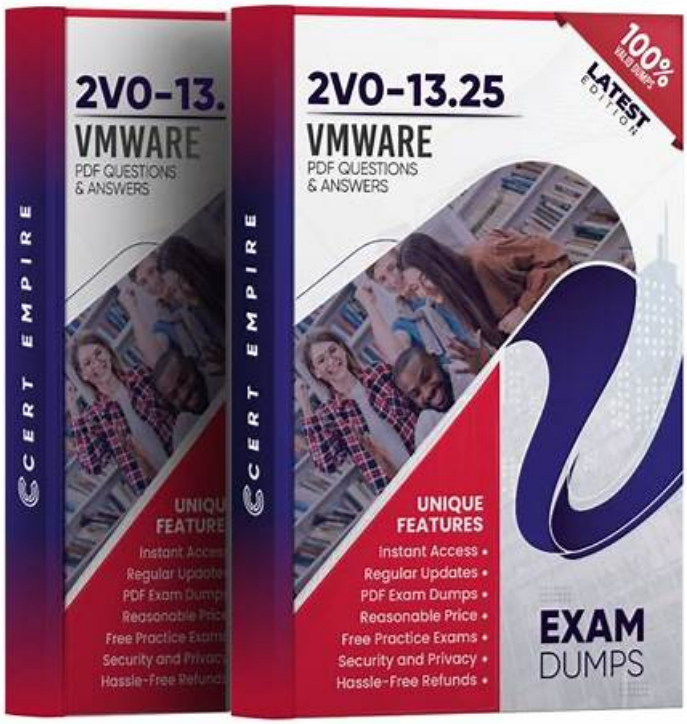

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VMware 2V0-13.25 Exam Syllabus Topics:

Topic	Details
Topic 1	• VMware Products and Solutions: This section of the exam evaluates the knowledge of VMware Solution Specialists and focuses on VMware Cloud Foundation (VCF). Candidates must be able to identify and differentiate between various VCF architecture options in given scenarios. The emphasis is on understanding the key products and how they integrate into enterprise design choices.
Topic 2	• Troubleshoot and Optimize the VMware Solution: This section of the exam measures the skills of Operations Engineers. There are no explicitly testable objectives provided in this domain, but candidates are expected to understand troubleshooting and optimization principles to maintain the VMware environment effectively in real-world deployments.
Topic 3	• IT Architectures, Technologies, Standards: This section of the exam measures the skills of IT Architects and covers the ability to distinguish business requirements from technical ones. It expects candidates to understand the differences between conceptual, logical, and physical designs while also differentiating requirements, assumptions, constraints, and risks. Core concepts of availability, manageability, performance, recoverability, and security (AMPRS) are tested. Learners also need to document risk mitigation strategies, design decisions, and create a validation strategy that ties requirements to practical implementation.

Topic 4	• Install, Configure, Administrate the VMware Solution: This section of the exam is relevant to System Administrators. Although it has no directly testable objectives, it underlines the expectation that candidates are familiar with installation, configuration, and administration tasks that form the foundation for VMware Cloud Foundation solutions.
Topic 5	• Plan and Design the VMware Solution: This section measures the skills of Cloud Infrastructure Designers. It focuses on gathering and analyzing business requirements and then transforming them into conceptual, logical, and physical models of VMware Cloud Foundation. Candidates are expected to identify prerequisites and make design decisions across fleet topologies, networking, management domains, workload domains, automation, and operations. The section also includes designing for availability within and across zones, creating strategies for manageability such as lifecycle, scalability, and capacity, and ensuring performance and recoverability through BCDR strategies. Additional emphasis is given to designing secure environments, workload migration strategies, and creating consumption, automation, and monitoring strategies to support modern applications and governance.

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VMware Cloud Foundation 9.0 Architect Sample Questions (Q99-Q104):

NEW QUESTION # 99
Which Broadcom products contribute to improving storage connectivity in VMware Cloud Foundation?

- A. Broadcom Fibre Channel HBAs
- B. Broadcom Ethernet adapters
- C. Broadcom RAID controllers
- D. Broadcom NVMe SSDs

Answer: A

Explanation:
Broadcom Fibre Channel HBAs improve storage connectivity in VMware Cloud Foundation.

NEW QUESTION # 100
When determining the compute capacity for a VMware Cloud Foundation VI Workload Domain, which three elements should be considered when calculating usable resources? (Choose three.)

- A. VM swap file
- B. Number of VMs
- C. Number of 10GbE NICs per VM
- D. vSAN space efficiency feature enablement
- E. CPU/Cores per VM
- F. Disk capacity per VM

Answer: A,D,E

Explanation:
When determining the compute capacity for a VMware Cloud Foundation (VCF) VI Workload Domain, the goal is to calculate the usable resources available to support virtual machines (VMs) and their workloads. This involves evaluating the physical compute

resources (CPU, memory, storage) and accounting for overheads, efficiency features, and configurations that impact resource availability. Below, each option is analyzed in the context of VCF 5.2, with a focus on official documentation and architectural considerations:

A). vSAN space efficiency feature enablement

This is a critical element to consider. VMware Cloud Foundation often uses vSAN as the primary storage for VI Workload Domains. vSAN offers space efficiency features such as deduplication, compression, and erasure coding (RAID-5/6). When enabled, these features reduce the physical storage capacity required for VM data, directly impacting the usable storage resources available for compute workloads. For example, deduplication and compression can significantly increase usable capacity by eliminating redundant data, while erasure coding trades off some capacity for fault tolerance. The VMware Cloud Foundation 5.2 Planning and Preparation documentation emphasizes the need to account for vSAN policies and efficiency features when sizing storage, as they influence the effective capacity available for VMs. Thus, this is a key factor in compute capacity planning.

B). VM swap file

The VM swap file is an essential consideration for compute capacity, particularly for memory resources. In VMware vSphere (a core component of VCF), each powered-on VM requires a swap file equal to the size of its configured memory minus any memory reservation. This swap file is stored on the datastore (often vSAN in VCF) and consumes storage capacity. When calculating usable resources, you must account for this overhead, as it reduces the available storage for other VM data (e.g., virtual disks). Additionally, if memory overcommitment is used, the swap file size can significantly impact capacity planning. The VMware Cloud Foundation Design Guide and vSphere documentation highlight the importance of factoring in VM swap file overhead when determining resource availability, making this a valid element to consider.

C). Disk capacity per VM

While disk capacity per VM is important for storage sizing, it is not directly a primary factor in calculating usable compute resources for a VI Workload Domain in the context of this question. Disk capacity per VM is a workload-specific requirement that contributes to overall storage demand, but it does not inherently determine the usable CPU or memory resources of the domain. In VCF, storage capacity is typically managed by vSAN or other supported storage solutions, and while it must be sufficient to accommodate all VMs, it is a secondary consideration compared to CPU, memory, and efficiency features when focusing on compute capacity. Official documentation, such as the VCF 5.2 Administration Guide, separates storage sizing from compute resource planning, so this is not one of the top three elements here.

D). Number of 10GbE NICs per VM

The number of 10GbE NICs per VM relates to networking configuration rather than compute capacity (CPU and memory resources). While networking is crucial for VM performance and connectivity in a VI Workload Domain, it does not directly influence the calculation of usable compute resources like CPU cores or memory. In VCF 5.2, networking design (e.g., NSX or vSphere networking) ensures sufficient bandwidth and NICs at the host level, but per-VM NIC counts are a design detail rather than a capacity determinant. The VMware Cloud Foundation Design Guide focuses NIC considerations on host-level design, not VM-level compute capacity, so this is not a relevant element here.

E). CPU/Cores per VM

This is a fundamental element in compute capacity planning. The number of CPU cores assigned to each VM directly affects how many VMs can be supported by the physical CPU resources in the VI Workload Domain. In VCF, compute capacity is based on the total number of physical CPU cores across all ESXi hosts, with a minimum of 16 cores per CPU required for licensing (as per the VCF 5.2 Release Notes and licensing documentation). When calculating usable resources, you must consider how many cores are allocated per VM, factoring in overcommitment ratios and workload demands. The VCF Planning and Preparation Workbook explicitly includes CPU/core allocation as a key input for sizing compute resources, making this a critical factor.

F). Number of VMs

While the total number of VMs is a key input for overall capacity planning, it is not a direct element in calculating usable compute resources. Instead, it is a derived outcome based on the available CPU, memory, and storage resources after accounting for overheads and per-VM allocations. The VMware Cloud Foundation 5.2 documentation (e.g., Capacity Planning for Management and Workload Domains) uses the number of VMs as a planning target, not a determinant of usable capacity. Thus, it is not one of the top three elements for this specific calculation.

Conclusion:

The three elements that should be considered when calculating usable compute resources are vSAN space efficiency feature enablement (A), VM swap file (B), and CPU/Cores per VM (E). These directly impact the effective CPU, memory, and storage resources available for VMs in a VI Workload Domain.

Reference: VMware Cloud Foundation 5.2 Planning and Preparation Workbook VMware Cloud Foundation 5.2 Design Guide VMware Cloud Foundation 5.2 Release Notes VMware vSphere 8.0 Update 3 Documentation (for VM swap file and CPU allocation details) VMware Cloud Foundation Administration Guide

NEW QUESTION # 101

An architect is designing a VMware Cloud Foundation (VCF) solution for a customer. During the discovery phase, the customer outlined the following availability requirements:

* Business-critical workloads:RPO = 2 hours

* Infrastructure components:RTO = 8 hours
Based on this context, what does the RTO metric represent?

- A. The maximum allowable time within which a system or service must be restored to a usable state
- B. The minimum volume of data loss tolerated in the event of a disruption
- C. The minimum acceptable duration required to recover a service to an operational state
- D. The maximum amount of data loss that is considered acceptable during a failure

Answer: A

Explanation:
* RTO (Recovery Time Objective)measures themaximum downtime toleratedbefore a service must be restored.
* RPO (Recovery Point Objective)measures themaximum tolerable data loss.
In this scenario:
* Business-critical workloads tolerate2 hours of data loss(RPO).
* Infrastructure must be operational again within8 hours(RTO).
Thus, RTO =maximum allowable recovery time for service restoration.
Reference:VMware Cloud Foundation 9.0 - Business Continuity & Disaster Recovery Definitions.

NEW QUESTION # 102
Which Broadcom products support optimal data throughput in VMware virtualized environments?

- A. Broadcom 25GbE Ethernet Adapter
- B. VMware NSX
- C. vSAN
- D. Broadcom RAID Controller

Answer: A,C,D

Explanation:
Broadcom 25GbE Ethernet Adapters, vSAN, and Broadcom RAID Controllers support optimal data throughput in VMware environments.

NEW QUESTION # 103
Which Broadcom solutions are critical for network performance and scalability in VMware Cloud Foundation?

- A. Broadcom Fibre Channel HBAs
- B. Broadcom Ethernet adapters
- C. Broadcom RAID controllers
- D. Broadcom NVMe SSDs

Answer: B

Explanation:
Broadcom Ethernet adapters are critical for network performance in VMware Cloud Foundation.

NEW QUESTION # 104
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