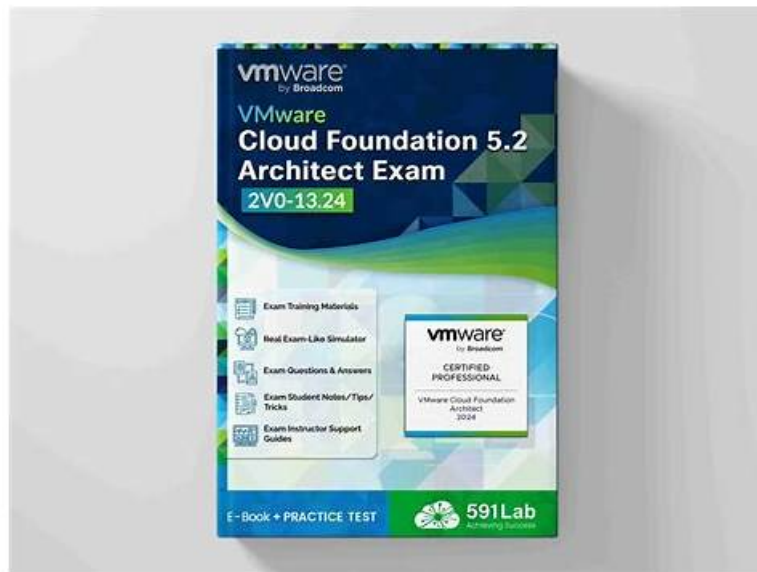


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VMware 2V0-13.24 Exam Syllabus Topics:

Topic	Details
Topic 1	• Install, Configure, and Administrate the VMware by Broadcom Solution: This section has NO TESTABLE OBJECTIVES in this version of the exam.
Topic 2	• Plan and Design the VMware by Broadcom Solution: This section of the exam measures the skills of VMware administrators. It involves gathering and analyzing business objectives and requirements to create a conceptual model. Additionally, it covers the creation of VMware Cloud Foundation logical and physical designs. This includes prerequisites and design decisions related to Network Infrastructure, VCF Management Domain, VCF Workload Domain, VCF Edge Cluster, VCF Cloud Automation, and VCF Cloud Operations. Designs should consider availability within and across availability zones, manageability (Lifecycle Management, Scalability, Capacity Management), performance, recoverability (BCDR strategies), and security for VCF Management Components and Workloads. Workload mobility, consumption, and monitoring strategies are also addressed in this section.
Topic 3	• VMware by Broadcom Solution: This section of the exam measures the skills of cloud architects and infrastructure engineers and focuses on understanding the architecture of VMware by Broadcom solution. Candidates should be able to differentiate between various VMware Cloud Foundation architecture options based on different scenarios.
Topic 4	• Troubleshoot and Optimize the VMware by Broadcom Solution: This section has NO TESTABLE OBJECTIVES in this version of the exam.

Topic 5	IT Architectures, Technologies, Standards: This section of the exam measures the skills of enterprise architects and solution architects and focuses on the fundamentals of IT architectures, technologies, and standards. It covers differentiating between business and technical requirements, understanding conceptual models, and logical and physical designs, and recognizing the distinctions between requirements, assumptions, constraints, and risks. Also included are availability, manageability, performance, recoverability, and security (AMPRS), developing risk mitigation strategies, documenting design decisions, and creating design validation strategies.
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VMware Cloud Foundation 5.2 Architect Sample Questions (Q23-Q28):

NEW QUESTION # 23

When selecting a VMware Cloud Foundation architecture, which factor is most important when deciding between a single-site or multi-site deployment?

Response:

- A. Type of workload being deployed
- B. Required scalability and high availability
- C. Compliance and regulatory requirements
- D. Budget constraints

Answer: B

NEW QUESTION # 24

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

Answer: B,C,F

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 fileThe 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 VMWhile 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 VMThe 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 VMThis 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 VMsWhile 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.

References:

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 # 25

Which two strategies are critical for enabling self-service and governance in a VMware Cloud Foundation environment?

(Choose two)

Response:

- A. Setting up a centralized monitoring system for all infrastructure components
- **B. Configuring role-based access control (RBAC) for tenants**
- C. Automating network provisioning to optimize resource usage
- **D. Defining automated policies for resource scaling and provisioning**

Answer: B,D

NEW QUESTION # 26

Which VMware Cloud Foundation architecture option is best suited for organizations with heavy workloads in a single data center but with plans to expand?

Response:

- A. VMware Cloud Foundation with a multi-cloud hybrid setup
- **B. VMware Cloud Foundation with centralized management**
- C. VMware Cloud Foundation with an edge-cloud deployment
- D. VMware Cloud Foundation with an all-flash storage setup

Answer: B

NEW QUESTION # 27

When creating a VMware Cloud Foundation logical design for a network infrastructure, which two elements must be included? (Choose two)

Response:

- **A. Logical network segments such as VLANs**
- B. The choice of physical network cables used in the data center
- C. The physical location of network switches
- **D. Configuration of firewall rules and load balancers**

Answer: A,D

NEW QUESTION # 28

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