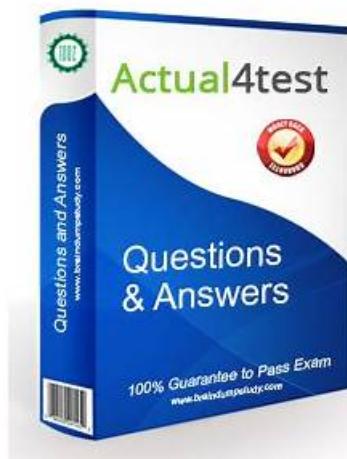


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VMware 2V0-13.24 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • Install, Configure, and Administrate the VMware by Broadcom Solution: This section has NO TESTABLE OBJECTIVES in this version of the exam.
Topic 5	<ul style="list-style-type: none"> • Troubleshoot and Optimize the VMware by Broadcom Solution: This section has NO TESTABLE OBJECTIVES in this version of the exam.

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VMware Cloud Foundation 5.2 Architect Sample Questions (Q70-Q75):

NEW QUESTION # 70

A VMware Cloud Foundation design incorporates the following technical requirements:

All management components must have their login sessions timeout after 2 minutes of inactivity.

Communication between management components should be limited to required ports only.

Modifications required by compliance should not impact the management components' functionality.

What would be the recommendation from a design perspective that would aid in achieving the above requirements?

- A. Apply NSX DFW (Distributed Firewall) to achieve zero-trust
- B. Consult the vSphere Security Configuration kit
- **C. Consult the Compliance Kit for VMware Cloud Foundation**
- D. Leverage the results of a vulnerability assessment and apply the recommendations

Answer: C

NEW QUESTION # 71

Which architecture option is recommended for an organization looking to implement VMware Cloud Foundation with minimal disruption during migration from legacy systems?

Response:

- A. VMware Cloud Foundation with a traditional three-tier architecture
- B. VMware Cloud Foundation with an edge-cloud deployment
- **C. VMware Cloud Foundation with a hybrid cloud deployment**
- D. VMware Cloud Foundation with cloud automation integration

Answer: C

NEW QUESTION # 72

An architect is designing a new VCF solution to meet the following requirements:

The solution must be deployed across two availability zones.

The physical hosts must be installed in a single rack per availability zone.

Workloads running in the cluster must be able to run on hosts in either availability zone.

The architect has decided that to meet these requirements, the solution will be deployed using the Single Instance - Multiple Availability Zones VCF Topology. When considering the design for the network, what should the architect include in the logical design to meet these requirements?

- **A. A single NSX Overlay Transport Zone for all clusters to carry the traffic between the ESXi hosts.**
- B. A highly available gateway that supports the failure of an entire availability zone.
- C. A 25-GbE port on each Top of Rack (ToR) switch connected to the ESXi host uplinks.
- D. A physical network fabric in a leaf-spine configuration with dual Cisco switches within each availability zone.

Answer: A

Explanation:

The VCF 5.2 design uses a Single Instance - Multiple Availability Zones topology (e.g., stretched cluster), requiring centralized management across two AZs, hosts in one rack per AZ, and workload mobility across AZs. The logical design focuses on high-level networking architecture, not physical details. Let's evaluate:

Option A: A physical network fabric in a leaf-spine configuration with dual Cisco switches within each availability zoneA leaf-spine fabric enhances physical network scalability and redundancy, aligning with rack-based deployments. However, it's a physical design detail (switch topology), not a logical networking decision, per the VCF 5.2 Design Guide.

Option B: A highly available gateway that supports the failure of an entire availability zoneA gateway (e.g., NSX Edge Tier-0) with AZ failover supports North-South traffic resilience. While valuable, it doesn't directly enable workload mobility across AZs (East-West traffic), which is the core requirement. The VCF 5.2 Networking Guide treats gateways as supplementary, not foundational for stretched clusters.

Option C: A 25-GbE port on each Top of Rack (ToR) switch connected to the ESXi host uplinks Specifying 25-GbE ports is a physical network detail (bandwidth, cabling), not a logical design element. The VCF 5.2 Design Guide delegates port speeds to physical implementation, not logical architecture.

Option D: A single NSX Overlay Transport Zone for all clusters to carry the traffic between the ESXi hostsIn a stretched cluster topology, a single NSX Overlay Transport Zone enables VM mobility across AZs via overlay networks (e.g., Geneve). It ensures workloads can run on hosts in either AZ by providing a unified L2/L3 connectivity layer, managed by NSX. The VCF 5.2 Architectural Guide mandates a single Overlay TZ for stretched deployments to support vMotion and workload distribution, directly meeting the requirement.

Conclusion: Option D is the logical design decision, enabling workload mobility across AZs in a stretched VCF topology via NSX overlay networking. References:

VMware Cloud Foundation 5.2 Architectural Guide(docs.vmware.com): Multi-AZ Topology and NSX Overlay.

VMware Cloud Foundation 5.2 Networking Guide(docs.vmware.com): Transport Zones in Stretched Clusters.

VMware Cloud Foundation 5.2 Design Guide(docs.vmware.com): Logical vs. Physical Design.

NEW QUESTION # 73

An architect is working on a leaf-spine design requirement for NSX Federation in VMware Cloud Foundation. Which recommendation should the architect document?

- A. Use a physical network that is configured for EIGRP routing adjacency.
- B. Layer 3 device that supports OSPF.
- **C. Jumbo frames on the components of the physical network between the VMware Cloud Foundation instances.**
- D. Ensure that the latency between VMware Cloud Foundation instances that are connected in an NSX Federation is less than 1500 ms.

Answer: C

Explanation:

NSX Federation in VMware Cloud Foundation (VCF) 5.2 extends networking and security across multiple VCF instances (e.g., across data centers) using a leaf-spine underlay network. The architect must recommend a physical network design that supports this. Let's evaluate:

Option A: Use a physical network that is configured for EIGRP routing adjacency Enhanced Interior Gateway Routing Protocol (EIGRP) is a Cisco-proprietary routing protocol. NSX Federation requires a Layer 3 underlay with dynamic routing (e.g., BGP, OSPF), but EIGRP isn't a VMware- recommended standard for NSX leaf-spine designs. BGP is preferred for its scalability and interoperability in NSX-T 3.2 (used in VCF 5.2). This option is not optimal.

Option B: Layer 3 device that supports OSPF

Open Shortest Path First (OSPF) is a supported routing protocol for NSX underlays, alongside BGP. A Layer 3 device with OSPF could work in a leaf-spine topology, but VMware documentation emphasizes BGP as the primary choice for NSX Federation due to its robustness in multi-site scenarios. OSPF is valid but not the strongest recommendation for Federation-specific designs.

Option C: Ensure that the latency between VMware Cloud Foundation instances that are connected in an NSX Federation is less than 1500 ms NSX Federation requires low latency between sites for control plane consistency (Global Manager to Local Managers). The maximum supported latency is 150 ms (not 1500 ms), per VMware specs. 1500 ms (1.5 seconds) is far too high and would disrupt Federation operations, making this incorrect.

Option D: Jumbo frames on the components of the physical network between the VMware Cloud Foundation instances This is correct. NSX Federation relies on NSX-T overlay traffic (Geneve encapsulation) across sites, which benefits from jumbo frames (MTU # 9000) to reduce fragmentation and improve performance. In a leaf-spine design, enabling jumbo frames on all physical network components (switches, routers) between VCF instances ensures efficient transport of tunneled traffic (e.g., for stretched networks). VMware strongly recommends this for NSX underlays, making it the best recommendation.

Conclusion: The architect should document D: Jumbo frames on the components of the physical network between the VMware Cloud Foundation instances. This aligns with VCF 5.2 and NSX Federation's leaf- spine design requirements for optimal performance and scalability.

References:

VMware Cloud Foundation 5.2 Architecture and Deployment Guide (Section: NSX Federation Networking) NSX-T 3.2 Reference Design (integrated in VCF 5.2): Leaf-Spine Underlay Requirements VMware NSX-T 3.2 Installation Guide: Jumbo Frame Recommendations

NEW QUESTION # 74

Which design decision helps ensure optimal performance in a VCF environment?

Response:

- A. Configuring resource pools to limit CPU and memory consumption
- **B. Using multiple Availability Zones to distribute workloads evenly**
- C. Utilizing a shared storage solution for all VCF components
- D. Implementing a centralized logging system for performance monitoring

Answer: B

NEW QUESTION # 75

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