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## VMware 3V0-25.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Plan and Design the VMware Solution: This domain addresses NSX design including architecture, connectivity solutions, multisite deployments, NSX Fleet considerations, and optimization decisions based on given scenarios.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Troubleshoot and Optimize the VMware Solution: This domain focuses on identifying and resolving NSX issues using VCF tools, troubleshooting infrastructure and routing problems, and understanding ECMP, high availability, and packet flows.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>IT Architectures, Technologies, Standards: This domain covers foundational IT structural designs like client-server and microservices, implementation technologies such as containerization and APIs, and industry standards like ISO</li> <li>IEC, TOGAF, and security frameworks.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>VMware Products and Solutions: This domain focuses on VMware's core offerings including vSphere for virtualization, NSX for software-defined networking, and vSAN for storage, enabling private and hybrid cloud environments.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Install, Configure, Adminstrate the VMware Solution: This domain covers NSX implementation including deploying Federation, configuring components, creating Edge Clusters and gateways, managing VPC, stateful services, tenancy, integrations, and operational tasks.</li> </ul>

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### VMware Advanced VMware Cloud Foundation 9.0 Networking Sample Questions (Q45-Q50):

#### NEW QUESTION # 45

An administrator is configuring NSX resource sharing to allow shared access to multiple resources in the default space. By default, which user role owns the shared resources for the default space?

- A. Network Admin
- B. Security Admin
- C. Project Admin
- D. Enterprise Admin

**Answer: D**

Explanation:

In NSX Multi-Tenancy (Projects), the Enterprise Admin acts as the provider-level administrator who owns global objects in the default space. This ensures central control over resources that are shared across different projects.

#### NEW QUESTION # 46

An administrator has observed an NSX Local Manager (LM) outage at the secondary Site. However, the NSX Global Manager (GM) in secondary Site remains operational. What happens to data plane operations and policy enforcement at the secondary site?

- A. The data plane operates normally until LM recovery and reconnection.
- B. Secondary site must failover all workloads to Primary site.
- C. All traffic is blocked until secondary site LM recovers.
- D. Only local policies work; global policies cease to apply on the secondary site.

**Answer: A**

Explanation:

Comprehensive and Detailed 250 to 350 words of Explanation From VMware Cloud Foundation (VCF) documents:

The architecture of NSX Federation within a VCF Multi-Site design is built upon a separation of the Control Plane and the Data Plane. This "decoupled" architecture ensures high availability and resiliency even when management components become unavailable.

In NSX Federation, the Global Manager (GM) handles the configuration of objects that span multiple locations, while the Local Manager (LM) is responsible for pushing those configurations down to the local Transport Nodes (ESXi hosts and Edges) within its specific site. When a configuration is pushed, the Local Manager communicates with the Central Control Plane (CCP) and subsequently the Local Control Plane (LCP) on the hosts.

If an NSX Local Manager goes offline, the "Management Plane" for that site is lost. This means no new segments, routers, or firewall rules can be created or modified at that site. However, the existing configuration is already programmed into the Data Plane (the kernels of the ESXi hosts and the DPDK process of the Edge nodes).

According to VMware's "NSX Multi-Location Design Guide," the data plane remains fully operational during a Management Plane outage. Existing VMs will continue to communicate, BGP sessions on the Edges will remain established, and Distributed Firewall (DFW) rules will continue to be enforced based on the last known good configuration state cached on the hosts. The data plane does not require constant heartbeats from the Local Manager to forward traffic. Therefore, operations continue normally "headless" until the LM is restored and can resume synchronization with the Global Manager and local hosts. Failover to a primary site (Option D) is only necessary if the actual data plane (hosts/storage) fails, not just the management components.

#### NEW QUESTION # 47

An administrator has a VMware Cloud Foundation (VCF) instance. A critical NSX security update has been released by Broadcom. How can the administrator install the NSX update?

- A. Download the NSX patch to VCF Operations. Apply it using NSX Manager.
- B. Download the NSX patch to the NSX Manager. Apply it using VCF Operations Fleet Management.
- C. Download the NSX patch to VCF Operations. Apply it using VCF Operations Fleet Management.
- D. Download the NSX patch to the NSX Manager. Apply it using NSX Manager.

**Answer: C**

Explanation:

Comprehensive and Detailed 250 to 350 words of Explanation From VMware Cloud Foundation (VCF) documents:

In the unified architecture of VMware Cloud Foundation (VCF) 9.0, the management paradigm has shifted towards a more centralized "Fleet Management" approach. Historically, in VCF 4.x and 5.x, updates were primarily managed via the SDDC Manager using the Lifecycle Management (LCM) engine. However, with the integration advancements in version 9.0, VCF Operations (formerly part of the Aria/vRealize suite) has taken on a more direct role in the orchestration of updates across the entire VCF "Fleet." To comply with the VCF operational model, administrators no longer apply patches directly within the component managers (like NSX Manager or vCenter) if they wish to remain within the supported, automated framework. Instead, the workflow begins by downloading the bundle or patch to VCF Operations. This ensures that the update is validated against the current Bill of Materials (BOM) and that all dependencies- such as compatibility with the underlying ESXi versions or the management vCenter-are checked before any changes are committed.

Once the patch is available in VCF Operations, the administrator utilizes Fleet Management to apply it. This service orchestrates the update across all NSX Managers and Transport Nodes (Edges and Hosts) in a controlled, non-disruptive manner. If the administrator were to apply the patch directly in NSX Manager (Option D), the SDDC Manager and VCF Operations databases would go out of sync, leading to a

"configuration drift" where the system no longer knows which version is actually running, potentially breaking future automated lifecycle tasks. Therefore, the centralized download and application through VCF Operations Fleet Management is the verified procedure for maintaining a healthy and compliant VCF 9.0 environment.

#### NEW QUESTION # 48

An architect is designing a VMware Cloud Foundation (VCF) solution. The following information was gathered during the assessment phase:

- \* There is a critical application used by the Finance Team.
- \* The critical application has an availability and recoverability SLA of 99.999%.
- \* The critical application is sensitive to network changes.

Which two configurations should the architect include in their design? (Choose two.)

- A. Enable BFD on the Tier-0 gateway.
- B. Install and configure hosts with 100Gbps physical NICs.
- C. Configure Tier-0 gateway for eBGP and ECMP.
- D. Configure multiple static routes on Tier-1 gateway.
- E. Configure Tier-1 gateway for eBGP and ECMP.

**Answer: A,C**

Explanation:

Comprehensive and Detailed 250 to 350 words of Explanation From VMware Cloud Foundation (VCF) documents:

Designing for "five nines" (99.999%) availability in a VMware Cloud Foundation (VCF) environment requires a network architecture that minimizes convergence time and eliminates single points of failure. For a critical application sensitive to network changes, the connection between the virtualized SDDC and the physical network must be highly resilient and capable of near-instantaneous failover.

The Tier-0 Gateway is the primary interface for North-South traffic. To meet high availability requirements, the Tier-0 should be configured with BGP (External Border Gateway Protocol) to peer with physical Top-of-Rack (ToR) switches. By enabling ECMP (Equal Cost Multi-Pathing), the architect allows the Tier-0 to utilize multiple active paths to the physical world simultaneously. This not only increases available bandwidth but also ensures that if one physical link or router fails, traffic is immediately redistributed across the remaining active paths without a protocol timeout.

To complement ECMP, BFD (Bidirectional Forwarding Detection) is essential. While BGP's default keepalive and hold timers are often measured in seconds (typically 60 and 180 seconds, respectively), BFD provides sub-second failure detection. In a VCF environment, BFD operates as a lightweight "heartbeat" between the Tier-0 Edge nodes and the physical ToR routers. If a path fails, BFD detects it within milliseconds and notifies BGP to pull the failed path from the routing table. This combination of eBGP/ECMP for path redundancy and BFD for rapid detection is the verified standard for VCF designs requiring extreme uptime and sensitivity to network disruptions.

Static routes (Option A) are unsuitable for high-availability designs as they lack dynamic failure detection.

While 100Gbps NICs (Option E) provide bandwidth, they do not inherently provide the protocol-level resilience needed to meet a 99.999% SLA.

#### NEW QUESTION # 49

During a design review, the administrator is asked to explain which underlying technology enables the NSX Edge to perform fast packet processing and achieve near line-rate performance for Virtual Network Functions (VNFs). Which technology is leveraged in the NSX Edge for fast packet processing?

- A. Non-Uniform Memory Access (NUMA)
- B. Intel Speed Step
- C. Data Plane Development Kit (DPDK)
- D. AMD Power Now

**Answer: C**

Explanation:

Comprehensive and Detailed 250 to 350 words of Explanation From VMware Cloud Foundation (VCF) documents:

The NSX Edge is the workhorse of the VMware Cloud Foundation networking stack, handling demanding tasks like Geneve encapsulation, NAT, Firewalling, and BGP routing. To achieve the throughput required for modern data centers—often exceeding 10Gbps or even 40Gbps per node—NSX leverages the Data Plane Development Kit (DPDK).

Traditional packet processing in a standard Linux or Unix kernel is often a bottleneck. The kernel must handle interrupts, context switching between user space and kernel space, and complex buffer management for every packet. This "overhead" limits the speed at which a CPU can move packets. DPDK changes this by bypassing the standard kernel networking stack entirely. It operates in User Space and uses a "polling" mechanism rather than an "interrupt-driven" one.

In an NSX Edge VM or Bare Metal node, specific CPU cores are dedicated to the DPDK process (often called the Data Path or FP-Main). These cores "spin" at 100% utilization, constantly checking the NICs for new packets. Because there is no context switching and the process has direct access to the network hardware buffers, the Edge can process millions of packets per second (Mpps) with extremely low latency.

While NUMA (Option C) is a hardware architecture that NSX is "aware" of to optimize memory access, and Intel Speed Step/AMD Power Now (Options B and D) are power management features, DPDK is the actual software technology that enables the "fast packet processing" capability of the VCF networking solution. This is why VMware documentation emphasizes the importance of ensuring that Edge VMs are sized correctly with enough "High-Performance" cores to support the intended DPDK throughput.

#### NEW QUESTION # 50

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