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VMWare 3V0-25.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 ISOIEC, TOGAF, and security frameworks.
Topic 2	<ul style="list-style-type: none">Install, Configure, Administrate 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.
Topic 3	<ul style="list-style-type: none">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.
Topic 4	<ul style="list-style-type: none">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.

- 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.

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VMware Advanced VMware Cloud Foundation 9.0 Networking Sample Questions (Q59-Q64):

NEW QUESTION # 59

An administrator has been tasked with providing a networking solution including a Source and Destination NAT for a single Tenant. The tenant is using Centralized Connectivity with a Tier-0 Gateway named Ten-A- Tier-0 supported by an Edge cluster in Active-Active mode. The NAT solution must be available for multiple subnets within the Tenant space. The administrator chooses to deploy a Tier-1 Gateway to implement the NAT solution. How would the administrator complete the task?

- A. Create a new Tier-1 Gateway in Active-Standby mode and attach it to Ten-A-Tier-0.
- B. Create a Tier-1 Gateway in Distributed Routing mode only and do not attach it to Ten-A-Tier-0.
- C. Create a new Tier-0 Gateway in Active-Standby mode and attach another Tier-1 Gateway.
- D. Change Ten-A-Tier-0 to Active-Standby to support the stateful NAT.

Answer: A

Explanation:

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

In a VMware Cloud Foundation (VCF) environment, the implementation of stateful services-such as Source NAT (SNAT) and Destination NAT (DNAT)-requires a specific architectural configuration within the NSX component. This is because stateful services need a centralized point of processing (a Service Router or SR) to maintain the session state tables and ensure that return traffic is processed by the same node that initiated the session.

The scenario describes a provider-level Tier-0 Gateway running in Active-Active mode. While Active-Active provides high-performance North-South throughput via ECMP (Equal Cost Multi-Pathing), it does not support stateful NAT services because asymmetric traffic flows would break the session tracking. Rather than changing the Tier-0 to Active-Standby (which would reduce overall throughput for the entire environment), the architecturally sound approach is to offload the stateful services to a Tier-1 Gateway.

According to VCF design guides, when a Tier-1 Gateway is required to perform NAT for multiple subnets, it must be configured as a Stateful Tier-1. This involves associating the Tier-1 with an Edge Cluster and setting its high-availability mode to Active-Standby. Once the Tier-1 is created in this mode, it creates a Service Router (SR) component on the selected Edge Nodes. By attaching this Active-Standby Tier-1 to the existing Active-Active Tier-0 (Ten-A-Tier-0), the tenant's subnets can enjoy the benefits of localized stateful NAT while the environment maintains high-performance, non-stateful routing at the Tier-0 layer.

Option A is inefficient as it impacts the entire Tier-0. Option B is redundant. Option C is incorrect because a "Distributed Routing only" Tier-1 (one without an Edge Cluster association) cannot perform stateful NAT.

Therefore, creating an Active-Standby Tier-1 and linking it to the provider Tier-0 is the verified VCF multi-tenant design pattern.

NEW QUESTION # 60

An administrator is investigating packet loss reported by workloads connected to VLAN segments in an NSX environment. Initial checks confirm:

- * All VMs are powered on
- * VLAN segment IDs are consistent across transport nodes
- * Physical switch configurations are correct.

Which two NSX tools can be used to troubleshoot packet loss on VLAN Segments? (Choose two.)

- A. Flow Monitoring
- **B. Traceflow**
- C. Live Flow
- D. Activity Monitoring
- **E. Packet Capture**

Answer: B,E

Explanation:

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

In a VMware Cloud Foundation (VCF) environment, troubleshooting packet loss requires tools that can provide visibility into both the logical and physical paths of a packet. When dealing specifically with VLAN segments (as opposed to Overlay segments), the traffic does not leave the host encapsulated in Geneve; instead, it is tagged with a standard 802.1Q header.

Traceflow is the primary diagnostic tool within NSX for identifying where a packet is being dropped. It allows an administrator to inject a synthetic packet into the data plane from a source (such as a VM vNIC) to a destination. The tool then reports back every "observation point" along the path, including switching, routing, and firewalling. If a packet is dropped by a Distributed Firewall (DFW) rule or a physical misconfiguration that wasn't caught initially, Traceflow will explicitly state at which stage the packet was lost.

Packet Capture is the second essential tool. NSX provides a robust, distributed packet capture utility that can be executed from the NSX Manager CLI or UI. This tool allows administrators to capture traffic at various points, such as the vNIC, the switch port, or the physical uplink (vmmnic) of the ESXi Transport Node. By comparing captures from different points, an administrator can determine if a packet is reaching the virtual switch but failing to exit the physical NIC, or if return traffic is reaching the host but not the VM.

Options like Flow Monitoring and Live Flow are excellent for observing traffic patterns and session statistics (IPFIX), but they are less effective for pinpointing the exact cause of "packet loss" compared to the granular, packet-level analysis provided by Traceflow and Packet Capture. Activity Monitoring is typically used for endpoint introspection and user-level activity, which is irrelevant to Layer 2/3 packet loss troubleshooting.

NEW QUESTION # 61

Which two statements describe the recommended strategy for configuring and synchronizing security policies across Federated NSX sites? (Choose two.)

- A. Security policies should be defined locally on each LM and only synchronized manually by an administrator to prevent accidental conflicts.
- B. The Global Manager only synchronizes networking (L2/L3) configurations. Security rules must be configured separately on each site.
- **C. Security policies, such as Distributed Firewall rules and security groups, must be defined as global policies on the Global Manager (GM).**
- D. Consistency is achieved by ensuring all security groups have the exact same name on every Federated site's Local Manager (LM).
- **E. Local Managers (LMs) can define local policies, but any global policies defined on the GM always take precedence over the local ones.**

Answer: C,E

Explanation:

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

NSX Federation is the cornerstone of multi-site VMware Cloud Foundation (VCF) security, enabling administrators to maintain a consistent security posture across geographically dispersed data centers. The management of security in a Federated environment relies on a hierarchical relationship between the Global Manager (GM) and Local Managers (LMs).

According to VMware documentation, the recommended strategy is to define Global Security Policies on the Global Manager (Option B). When a security group or a Distributed Firewall (DFW) rule is created on the GM, it is automatically synchronized to all registered Local Managers. This ensures that a "Finance App" security policy is identical in AZ1 and AZ2. These global objects are identified by a specific tag in the local NSX Manager UI, indicating they are managed globally and cannot be modified locally.

Furthermore, NSX handles the coexistence of global and local rules through a specific evaluation order (Option D). In the NSX DFW category structure, Global Categories (managed by the GM) are evaluated before Local Categories (managed by the LM). This ensures that corporate-wide security mandates (like

"Block All SSH to Management") defined at the GM level are enforced first and cannot be bypassed by localized site-level rules.

Option A is incorrect because manual naming consistency is prone to error and does not provide actual synchronization. Option C and E are incorrect as they contradict the fundamental purpose of Federation, which is to centralize management and automate

synchronization to prevent configuration drift and security gaps. Therefore, defining policies on the GM and utilizing the inherent precedence of global rules is the verified design best practice for VCF Federation.

NEW QUESTION # 62

An architect has just deployed a new NSX Edge cluster in a VMware Cloud Foundation (VCF) fleet. The BGP peer between the NSX Tier-0 gateway and the top-of-rack routers is successfully up and stable.

* BGP Connection is established, but the NSX Tier-0 is not receiving a default route from the top-of-rack routers.

* Workloads inside NSX have no Internet access.

What could be the solution?

- A. The top-of-rack router receives a default route from Tier-0 gateway.
- B. Tier-0 gateway community settings are missing on the top-of-rack router configuration.
- C. Tier-0 gateway has a limit set too low for how many routes it can accept.
- **D. There is no default route configured on the top-of-rack router for the Tier-0 gateway.**

Answer: D

Explanation:

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

In a VMware Cloud Foundation (VCF) deployment, establishing a stable BGP neighborhood between the Tier-0 Gateway and the physical Top-of-Rack (ToR) switches is only the first step in enabling North-South connectivity. While the BGP state may show as "Established," this only confirms that the control plane handshake is complete and the peers are ready to exchange prefixes.

The primary reason for a lack of external connectivity in this scenario is that no routing information is being shared. For workloads within the SDDC to reach the internet, the Tier-0 Gateway must have a path to external networks. In most enterprise VCF designs, the physical network (ToR) is expected to provide a default route (0.0.0.0/0) to the Tier-0 Gateway.

If the Tier-0 is not receiving this route, the issue typically lies in the physical router's configuration. BGP does not automatically "originate" or "redistribute" a default route unless explicitly commanded to do so. On most physical network platforms (like Cisco, Arista, or Juniper), the administrator must specifically configure a "default-originate" command or ensure a static default route exists in the physical RIB and is allowed to be advertised into the BGP session with the NSX Edge nodes.

Options A and C are unlikely to be the primary cause of a completely missing default route in a fresh deployment. Option B describes the inverse—where the virtual network tells the physical network how to find the internet—which is incorrect for a standard VCF consumer model. Therefore, verifying and enabling the default route advertisement on the physical ToR switches is the verified solution to provide the Tier-0 with the necessary egress path for internet-bound workload traffic.

NEW QUESTION # 63

An administrator needs to prevent the datacenter from advertising any internal prefixes toward a new VPC, while still ensuring the VPC receives a default route learned from the datacenter's upstream network. Where should the routing policy be applied?

- A. On the provider Tier-0 neighbor.
- B. On each segment default gateway.
- C. On the Tier-1 gateway.
- **D. On the VPC transit gateway.**

Answer: D

Explanation:

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

In the VMware Cloud Foundation (VCF) 9.0 and NSX VPC architecture, the Transit Gateway (TGW) is the central routing element that interconnects VPCs to each other and to the provider's infrastructure (Tier-0 or VRF gateways). It acts as the "Project-level" gateway that aggregates North-South traffic.

To control the visibility of routes within a specific VPC, the administrator must utilize Route Filtering at the VPC's boundary. When a VPC is attached to a Transit Gateway, a logical interface is created. To prevent the data center's internal prefixes (such as management networks or other tenant subnets) from being seen by the VPC while still providing a path to the internet, a prefix list or route map should be applied to the VPC Transit Gateway. This policy will explicitly "Deny" specific internal CIDR ranges while "Permitting" the

0.0.0.0/0 default route advertisement from the provider.

Applying the policy at the Tier-1 gateway (Option B) is technically similar but in the VPC model, the "Tier-1" is often an obscured or automated component of the VPC itself; the Transit Gateway is the designed administrative point for inter-project and North-South

