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VMware 3V0-25.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"> 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.
Topic 3	<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.
Topic 4	<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 ISO IEC, TOGAF, and security frameworks.

Topic 5	<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.
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VMware Advanced VMware Cloud Foundation 9.0 Networking Sample Questions (Q32-Q37):

NEW QUESTION # 32

An administrator must provide North/South connectivity for a VPC. The fabric exposes a distributed external VLAN across all ESX hosts. But, the only BGP peer to the core is on a VLAN only accessible on the Edge Cluster. Which design is required?

- A. Distributed Transit Gateway with an EVPN route reflector on the transport nodes.
- B. Deploy a Provider Tier-1 with BGP and connect the VPC Transit Gateway via route leaking.
- C. Use a VPC Tier-0 Gateway in active/active mode with distributed eBGP peering.
- **D. Centralized Transit Gateway on the Edge Cluster.**

Answer: D

Explanation:

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

In a VMware Cloud Foundation (VCF) environment utilizing the Virtual Private Cloud (VPC) model, North/South connectivity is managed by the Transit Gateway (TGW). The TGW acts as the bridge between the VPC-internal networks and the provider-level physical network.

The scenario presents a specific constraint: while an external VLAN exists across all hosts, the actual BGP peering point (the interface to the physical core routers) is restricted to the NSX Edge Cluster. In NSX terminology, when a gateway or service must be anchored to specific Edge Nodes to access physical network services—such as BGP peering, NAT, or stateful firewalls—it must be configured as a Centralized component.

A Centralized Transit Gateway (Option C) is instantiated on the Edge nodes. This allows the TGW to participate in the BGP session with the core routers on the VLAN that is only accessible to those Edges. The TGW then handles the routing for the VPC's internal segments. Traffic from the ESXi transport nodes (East-West) travels via the Geneve overlay to the Edge nodes, where it is then routed North-South by the Centralized TGW using the physical BGP peer.

Option A is incorrect because "distributed eBGP peering" would require every ESXi host to have peering capabilities, which contradicts the constraint. Option B involves EVPN, which is a significantly more complex and different architecture than what is required for standard VPC North/South access. Option D is an unnecessarily complex routing design that is not the standard VCF/VPC implementation pattern. Thus, the use of a Centralized Transit Gateway on the Edge cluster is the verified design requirement to bridge the gap between the overlay VPC and the localized BGP peering point.

NEW QUESTION # 33

In an NSX environment, an administrator is observing low throughput and intermittent congestion between the Tier-0 Gateway and

the upstream physical routers. The environment was designed for high availability and load balancing, using two Edge Nodes deployed in Active/Active mode. The administrator enables ECMP on the Tier-0 gateway, but the issues persist. Which action would address low throughput and congestion?

- A. Add an additional vNIC to the NSX Edge node.
- B. Convert Tier-1 gateways to be edgeless.
- C. Disable NAT on the Tier-0 gateway.
- **D. Deploy additional Edge nodes.**

Answer: D

Explanation:

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

When a VMware Cloud Foundation (VCF) environment experiences North-South congestion at the Tier-0 Gateway, it typically indicates that the processing capacity of the existing NSX Edge Nodes has been reached.

In an Active/Active configuration, the Tier-0 gateway utilizes Equal Cost Multi-Pathing (ECMP) to distribute traffic across all available Edge nodes in the cluster.

If a two-node Edge cluster is saturated despite ECMP being enabled, the standard "Scale-Out" procedure is to deploy additional Edge nodes (Option D). NSX supports up to 8 Edge nodes in a single cluster for a Tier-0 gateway. By adding more nodes, the administrator increases the total number of CPU cores dedicated to the DPDK (Data Plane Development Kit) packet processing engine. Each additional node provides more "bandwidth lanes" for the ECMP hash to utilize, effectively multiplying the aggregate throughput capability of the North-South exit point.

Option A is incorrect because "edgeless" Tier-1 gateways (Distributed Routers only) improve East-West performance by keeping traffic on the ESXi hosts, but they do not help with North-South traffic that must eventually hit a Tier-0 Service Router on an Edge. Option B (Disabling NAT) might reduce CPU overhead slightly, but it doesn't solve a fundamental capacity bottleneck and is often not an option due to architectural requirements. Option C (Adding a vNIC) does not increase the underlying compute/DPDK processing power of the Edge VM and can sometimes complicate the load-balancing hash.

In VCF operations, this expansion is handled via the SDDC Manager, which can automate the addition of new Edge nodes to an existing cluster, ensuring they are configured symmetrically with the correct uplink profiles and BGP peering sessions. This horizontal scaling is the verified method for resolving congestion in high-demand VCF networking environments.

NEW QUESTION # 34

An administrator is investigating reports that several Virtual Machines (VMs) deployed on an NSX virtual network segment are dropping packets. To troubleshoot the issue the administrator has attached two test VMs to the virtual network in order to inspect the packets sent between the two test VMs. What tool will allow the administrator to analyze the packet flow?

- A. Port Mirroring in the NSX Manager UI.
- B. Flows Monitoring in the VCF Operations UI.
- **C. Traceflow in the NSX Manager UI.**
- D. Live Traffic Analysis in the NSX Manager UI.

Answer: C

Explanation:

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

In a VMware Cloud Foundation (VCF) environment, pinpointing the exact location of packet drops within the software-defined data center requires tools that can see into the logical forwarding pipeline. While traditional networking tools like pings only provide a "binary" up/down status, Traceflow is the definitive diagnostic tool within the NSX Manager UI for deep packet path analysis.

Traceflow works by injecting a synthetic "trace packet" into the data plane, originating from a source vNIC of a specific VM. This packet is uniquely tagged so that every NSX component it touches—including the Distributed Switch (VDS), Distributed Firewall (DFW) rules, Distributed Routers (DR), and Service Routers (SR) on Edge nodes—reports back an observation.

When an administrator observes packet drops, Traceflow provides a step-by-step visualization of the packet's journey. If the packet is dropped, Traceflow will explicitly identify the component responsible. For example, it might show that the packet was "Dropped by Firewall Rule #102" or "Dropped by SpoofGuard." It can also identify if the packet was lost during Geneve encapsulation or at the physical uplink interface.

Option A (Flows Monitoring) is useful for long-term traffic patterns and session statistics but lacks the packet-level "hop-by-hop" granular detail provided by Traceflow. Option C (Port Mirroring) is used to send a copy of traffic to a physical or virtual appliance (like a Sniffer or IDS), which is more complex to set up and usually reserved for external deep packet inspection (DPI) rather than internal path troubleshooting. Option D (Live Traffic Analysis) is a broader term, but within the context of the NSX troubleshooting

toolkit for "packet flow analysis" between two points, Traceflow is the verified and documented solution for verifying the logical path and identifying drops.

NEW QUESTION # 35

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

Answer: A

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 # 36

A sovereign cloud provider has a VMware Cloud Foundation (VCF) stretched Workload Domain across two data centers (AZ1 and AZ2), where site connectivity via Layer 3 is provided by the underlay. The following NSX details are included in the design:

- * Each site must host its own local NSX Edge Cluster for availability zones.
- * Tier-0 gateways must be configured in active/active mode with BGP ECMP to local top-of-rack switches.
- * Inter-site Edge TEP traffic must not cross the inter-DC link.
- * SDDC Manager is used to automate NSX deployment.

During deployment of the Edge Cluster for AZ2, the SDDC Manager workflow fails because the Edge transport nodes' TEP IPs are not reachable from the ESXi transport nodes. Which step ensures correct Edge Cluster deployment in multi-site stretched domains?

- A. Configure BGP neighbors before deploying the Edge Cluster.
- B. Reuse the TEP IP pool from AZ1.
- C. Create an AZ2-specific Edge TEP IP pool and map it to the AZ2 uplink profile before deploying the Edge Cluster.
- D. Disable the liveness check during Edge deployment in SDDC Manager.

Answer: C

Explanation:

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

In a VMware Cloud Foundation (VCF) stretched cluster or Multi-Availability Zone (Multi-AZ) architecture, the networking design must account for the fact that AZ1 and AZ2 typically reside in different Layer 3 subnets. While the NSX Overlay provides Layer 2 adjacency for virtual machines across sites, the underlying Tunnel Endpoints (TEPs) must be able to communicate over the physical Layer 3 network.

According to the VCF Design Guide for Multi-AZ deployments, when stretching a workload domain, each availability zone should have its own dedicated TEP IP Pool. This is because TEP traffic is encapsulated (Geneve) and routed via the physical underlay. If the Edge nodes in AZ2 were to use the same IP pool as AZ1 (Option C), the physical routers would likely encounter routing conflicts or reachability issues, as the subnet for AZ1 would not be natively routable or "local" to the AZ2 Top-of-Rack (ToR) switches.

The failure during the SDDC Manager workflow occurs because the automated "Liveness Check" or "Pre-validation" step attempts to verify that the newly assigned TEP IPs in AZ2 can reach the existing TEPs in the environment. To resolve this and ensure a successful deployment, the administrator must define a unique AZ2-specific IP Pool in NSX. Furthermore, this pool must be associated with an Uplink Profile (or a Sub-Transport Node Profile in VCF 5.x/9.0) that uses the specific VLAN tagged for TEP traffic in the second data center.

This ensures that the Edge Nodes in AZ2 are assigned IPs that are valid and routable within the AZ2 underlay, allowing Geneve tunnels to establish correctly to the ESXi hosts in both sites without requiring a stretched Layer 2 physical network for the TEP infrastructure.

NEW QUESTION # 37

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