

# 2026 Updated VMware 3V0-25.25: Valid Advanced VMware Cloud Foundation 9.0 Networking Test Forum



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## VMware 3V0-25.25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<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>

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## VMware Advanced VMware Cloud Foundation 9.0 Networking Sample Questions (Q46-Q51):

### NEW QUESTION # 46

An administrator is upgrading an existing VMware Cloud Foundation (VCF) environment. An NSX Edge Cluster is required to support north-south traffic for a workload domain. How would the administrator initiate the edge cluster deployment?

- **A. Through VCF Operations Fleet Manager.**
- B. From vCenter Network Connectivity wizard.
- C. From the vCenter Server Appliance Management Interface (VAMI).
- D. From the VCF Installer.

**Answer: A**

Explanation:

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

In the architectural framework of VMware Cloud Foundation (VCF) 9.0, the deployment and lifecycle management of infrastructure components have transitioned into a unified "Fleet Management" model. While previous versions of VCF (like 4.x or 5.x) relied exclusively on the SDDC Manager UI for the deployment of NSX Edge Clusters, VCF 9.0 centralizes these operations within VCF Operations (integrated with the functionality formerly known as Aria Operations).

To initiate the deployment of an NSX Edge Cluster for a workload domain, the administrator uses the VCF Operations Fleet Manager. This interface provides a centralized orchestration point for the entire VCF

"fleet." When the deployment is triggered here, the system automates the selection of the underlying ESXi hosts, the configuration of the Virtual Distributed Switch (VDS) trunks, and the instantiation of the Edge VM appliances. This ensures that the deployment adheres strictly to the VMware Validated Solutions (VVS) guidelines and is consistent across all domains.

Option A is incorrect because the VCF Installer (Cloud Builder) is used for the initial "Day 0" bring-up of the Management Domain, not for post-deployment additions to workload domains. Option C and D are incorrect as vCenter and the VAMI do not possess the multi-component awareness or the SDDC-level automation required to configure NSX Edge Clusters in a VCF context. By using Fleet Manager, VCF ensures that the new Edge cluster is automatically integrated into the SDDC Manager's inventory and lifecycle management workflows, maintaining a "single source of truth" for the entire private cloud environment.

### NEW QUESTION # 47

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. Centralized Transit Gateway on the Edge Cluster.**
- 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. Distributed Transit Gateway with an EVPN route reflector on the transport nodes.

**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 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 # 48

An architect needs to allow users to deploy multiple copies of a test lab with public access to the internet. The design requires the same machine IPs be used for each deployment. What configuration will allow each lab to connect to the public internet?

- A. Configure SNAT rules on the Tier-0 gateway.
- B. Configure firewall rules to isolate the traffic going to the public internet.
- C. Configure isolation on the NSX segment.
- D. Configure DNAT rules on the Tier-1 gateway.

**Answer: A**

Explanation:

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

This scenario describes a classic "Overlapping IP" or "Fenced Network" challenge in a private cloud environment. In many development or lab use cases, users need to deploy identical environments where the internal IP addresses (e.g., 192.168.1.10) are the same across different instances to ensure application consistency.

To allow these identical environments to access the public internet simultaneously without causing an IP conflict on the external physical network, Source Network Address Translation (SNAT) is required.

According to VCF and NSX design best practices, the Tier-0 Gateway is the most appropriate place for this translation when multiple tenants or labs need to share a common pool of external/public IP addresses.

When a VM in Lab A sends traffic to the internet, the Tier-0 Gateway intercepts the packet and replaces the internal source IP with a unique public IP (or a shared public IP with different source ports). When Lab B (which uses the same internal IP) sends traffic, the Tier-0 Gateway translates it to a different unique public IP (or the same shared public IP with different ports). This ensures that return traffic from the internet can be correctly routed back to the specific lab instance that initiated the request.

Option A (DNAT) is used for inbound traffic (allowing the internet to reach the lab), which doesn't solve the outbound connectivity requirement for overlapping IPs. Option B (Isolation) would prevent communication entirely. Option C (Firewall) controls access but does not solve the routing conflict caused by identical IP addresses. Thus, SNAT rules on the Tier-0 gateway are the verified solution for providing internet access to overlapping lab environments.

#### NEW QUESTION # 49

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

**Answer: B**

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

policy enforcement. Applying it at the provider Tier-0 neighbor (Option D) would be too global, affecting all VPCs or projects connected to that Tier-0, rather than the "new VPC" specifically. Therefore, the Transit Gateway provides the necessary granular control for multi-tenant isolation and routing optimization as per the VCF 9.0 networking model.

### NEW QUESTION # 50

An administrator must prevent a new VPC from exporting any of its prefixes to the datacenter while still receiving a default route. Where should the routing policy be applied?

- A. On the VPC default route advertiser
- **B. On the VPC's Transit Gateway**
- C. On the providers' BGP peer template
- D. On the VPC Gateway Firewall

**Answer: B**

Explanation:

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

In the advanced networking architecture of VMware Cloud Foundation (VCF) 9.0 and the evolution of NSX VPCs, the control of route propagation is managed through the relationship between the consumer (the VPC) and the provider (the Tier-0 or Tier-1 Gateway). When a VPC is created, it is logically connected to the provider's infrastructure via a Transit Gateway (or a Provider-side logical router acting as a transit point).

To control the flow of routing information—specifically to prevent the data center's physical network from learning about internal VPC subnets (prefixes) while ensuring the VPC can still reach the outside world via a default route—the routing policy must be applied at the point of intersection. The Transit Gateway serves as this demarcation point. By applying a route filter or prefix list on the Transit Gateway, the administrator can explicitly deny the advertisement of internal VPC prefixes "upstream" to the provider's BGP process. Simultaneously, the provider can still inject or "advertise" a default route (0.0.0.0/0) "downstream" into the VPC.

Applying the policy on the VPC Gateway Firewall (Option D) would impact the data plane (blocking traffic) but would not prevent the routing table from being populated. The BGP peer template (Option C) is too broad, as it would likely affect all VPCs connected to that provider, rather than just the "new VPC" in question. The default route advertiser (Option A) only controls the egress of the default route, not the suppression of internal prefixes. Therefore, the Transit Gateway is the verified location for granular route control in a multi-tenant VCF VPC environment.

### NEW QUESTION # 51

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