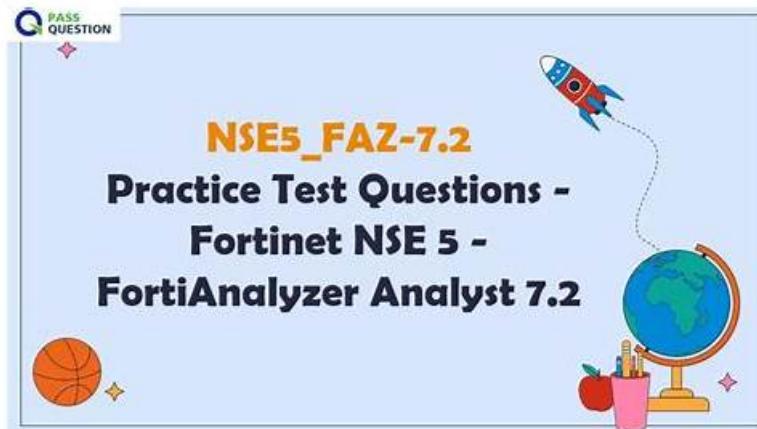


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## Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q95-Q100):

### NEW QUESTION # 95

What is the role of a device that is simultaneously functioning as both the distribution and core in the hierarchy network model?

- A. FortiSwitch functioning as standalone
- B. HA backup FortiGate managing FortiSwitch
- **C. FortiGate managing FortiSwitch**
- D. POE with high density FortiSwitch

**Answer: C**

Explanation:

In a hierarchical network model, the role of a device functioning simultaneously as both the distribution and core is most accurately described as "FortiGate managing FortiSwitch (B)." In this setup, FortiGate acts as the central unit managing multiple FortiSwitch units, thereby functioning both as a distribution layer-handling traffic between network segments-and as a core layer-managing traffic within the network on a broader scale. This setup is typical in medium-sized networks where a single device is capable enough to handle both roles effectively.

## NEW QUESTION # 96

You are configuring FortiSwitch to perform layer 3 inter-VLAN routing while managed by FortiGate over FortiLink. On supported hardware models, FortiSwitch can offload routing decisions for better performance.

1How does FortiSwitch perform routing between VLANs? (Choose one answer)

- A. By relying entirely on the CPU in software.
- B. **By using a hardware forwarding table (FIB) programmed into ASIC.**
- C. By supporting only dynamic routing protocols in hardware.
- D. By disabling routing when managed by FortiGate.

**Answer: B**

Explanation:

According to the FortiSwitchOS 7.6 FortiLink Guide and the FortiSwitch 7.6 Study Guide, managed FortiSwitch units support a feature called Inter-VLAN Routing Offload. Traditionally, in a FortiLink deployment, traffic between VLANs is "hair-pinned" back to the FortiGate for routing and security inspection. However, to increase performance and reduce latency, the FortiGate can program the managed FortiSwitch to handle Layer 3 routing of trusted traffic locally.

The technical mechanism behind this performance gain is the use of the Forwarding Information Base (FIB) programmed directly into the switch's ASIC (Application-Specific Integrated Circuit). When routing offload is enabled (specifically using the set switch-controller-offload enable command on the VLAN interface), the FortiGate pushes the necessary routing table and gateway information to the switch hardware.

This allows the FortiSwitch to perform packet lookups and forwarding decisions at wire speed within the silicon, bypassing the general-purpose CPU and the FortiLink control plane for that specific traffic flow.

The documentation notes that this feature requires an Advanced Features License on the tier-1 FortiSwitch and is typically applied to the switch closest to the FortiGate. While dynamic routing (Option B) is supported on FortiSwitch, it is not the only thing offloaded; static routes and inter-VLAN gateway traffic are the primary use cases for this offload mechanism. Therefore, the correct architectural description is that the switch utilizes its hardware-based FIB to accelerate inter-VLAN communication.

## NEW QUESTION # 97

Which statement about 802.1X security profiles using MAC-based authentication mode is true?

- A. FortiSwitch performs faster when using this security mode on the ports.
- B. FortiSwitch must communicate with the RADIUS server to authenticate devices
- C. **FortiSwitch can grant each device a different access level based on the credentials provided**
- D. FortiSwitch allows connectivity to all hosts connected to a port, if one host is authenticated.

**Answer: C**

Explanation:

Page 232, FortiSwitch 7.2 Study Guide-Online "However, if you want to authenticate each device behind a port, and optionally, grant each device a different access level based on the credentials provided, then MAC-based is required." According to the FortiSwitchOS 7.6 Administration Guide and the FortiLink Guide (FortiOS 7.6), FortiSwitch supports two primary modes for 802.1X authentication: port-based and MAC-based.

In 802.1X port-based authentication, once a single supplicant (user or device) successfully authenticates, the physical port is transitioned to an "authorized" state, allowing all traffic from any device connected to that port (e.g., through a hub or unmanaged switch) to pass through. This is summarized by Option D, which is incorrect for MAC-based mode.

In contrast, 802.1X MAC-based authentication (Option B) treats each device's MAC address as a distinct session. The switch maintains a table of authenticated MAC addresses for each port and applies security policies to each one individually. This granular approach allows the FortiSwitch to grant different access levels to different devices on the same physical port. For example, a laptop might be assigned to a corporate VLAN with a specific Dynamic Access Control List (DACL), while an IP phone on the same port is assigned to a Voice VLAN.

Furthermore, FortiSwitchOS 7.6 documentation specifies that MAC-based mode can support up to 20 devices per port. Each device must provide its own credentials (or be validated via MAC Authentication Bypass), enabling the switch to enforce specific security attributes such as VLAN IDs, QoS marking, and ingress ACLs tailored to each uniquely identified device. While the switch typically communicates with a RADIUS server (Option C) for these credentials, MAC-based mode's primary functional advantage is this individual session management and authorization flexibility.

## NEW QUESTION # 98

You are designing a FortiSwitch backbone where every FortiSwitch device must connect to every other FortiSwitch for maximum redundancy. To maintain connectivity while preventing loops, which protocol or feature must you configure on the switches? (Choose one answer)

- A. Spanning Tree Protocol (STP)
- B. Full mesh high availability (HA)
- C. Link aggregation group (LAG)
- D. Multichassis link aggregation group (MCLAG)

### Answer: A

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide (specifically Page 178) and the FortiSwitch 7.6 Study Guide, the Spanning Tree Protocol (STP) is the fundamental protocol used to manage redundant paths in a Layer 2 network. In the scenario described, where every FortiSwitch connects to every other FortiSwitch, a full Layer 2 mesh is created. This architecture inherently produces multiple physical switching loops that, if left unmanaged, would cause catastrophic broadcast storms.

STP is responsible for detecting these loops by exchanging Bridge Protocol Data Units (BPDUs). It then mathematically calculates a loop-free logical topology by placing redundant ports into a blocking (discarding) state while keeping primary paths in a forwarding state. While MCLAG (Option A) provides node-level redundancy and eliminates STP delays by allowing two switches to appear as one, it is not a standalone solution for a global full-mesh topology. In fact, Fortinet MCLAG explicitly relies on STP through the mclag-stp-aware feature to detect and prevent loops caused by connections outside the Inter-Chassis Link (ICL). Therefore, although MCLAG and LAG increase bandwidth and availability, STP remains the required underlying mechanism to maintain network stability in any highly redundant mesh environment. "Full mesh HA" (Option C) is not a defined feature in FortiSwitchOS 7.6.

## NEW QUESTION # 99

What feature can network administrators use to segment network operations and the administration of managed FortiSwitch devices on FortiGate?

- A. FortiGate multi-tenancy
- B. FortiLink split interface
- C. Multi-chassis link aggregation trunk
- D. FortiGate clustering protocol

### Answer: A

Explanation:

FortiGate's multi-tenancy feature, specifically Virtual Domains (VDOMs), is the most appropriate tool for segmenting network operations and the administration of managed FortiSwitch devices on FortiGate. Here's why:

\* VDOMs as Virtual Firewalls: VDOMs function as independent virtual firewalls within a single FortiGate device. Each VDOM can have its own:

- \* Security policies
- \* Interfaces (Including FortiLink interfaces for FortiSwitch management)
- \* Routing table
- \* Administrative access

\* Segmenting Network Operations: By assigning different FortiSwitch devices (or groups of ports) to separate VDOMs, you effectively partition your network. Network administrators can manage specific FortiSwitches through their assigned VDOMs, maintaining operational isolation.

\* Enhanced Administration: VDOMs offer granular administrative control. Different administrators can be assigned to specific VDOMs, limiting their management scope and reducing the risk of accidental configuration changes.

Why Other Options Are Less Suitable:

- \* B. Multi-chassis link aggregation trunk: This focuses on link redundancy and bandwidth aggregation, not network segmentation.
- \* C. FortiGate clustering protocol: This is aimed at high availability and scalability of the firewall functions themselves, not the management of switches.

- \* D. FortiLink split interface: This allows dividing a FortiLink interface on the FortiGate for managing multiple FortiSwitches, but it doesn't provide the true segmentation and administrative isolation that VDOMs offer.

References:

Fortinet Document Library - VDOMs:[invalid URL removed]

Fortinet Document Library - FortiSwitch Multi-tenancy (using VDOMS):<https://docs.fortinet.com/document>

## NEW QUESTION # 100

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