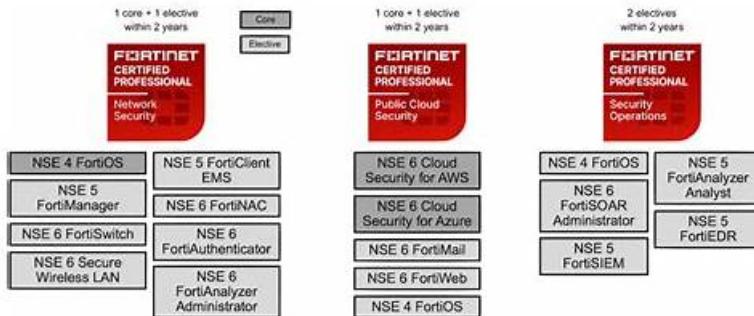


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### **Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q107-Q112):**

#### **NEW QUESTION # 107**

You need to deploy routing on a standalone FortiSwitch and want to maximize routing performance. Which type of routing is best for this deployment? (Choose one answer)

- A. Software-based routing because it bypasses the CPU to increase routing speed
- B. **Hardware-based routing because it relies on ASIC for faster performance**
- C. Hardware-based routing because the routing is performed directly by the kernel
- D. Software-based routing because it is preferred for high-speed backbone networks

**Answer: B**

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6.1 Administration Guide - Standalone Mode, FortiSwitch units support two primary methods for processing Layer 3 traffic: software-based routing and hardware-based routing. To maximize performance, the documentation specifies that hardware-based routing (Option A) is the superior choice for high-speed environments.

The primary technical reason for this performance advantage is the use of Application-Specific Integrated Circuits (ASICs). In

hardware-based routing, the routing table and forwarding information are programmed directly into the switch's specialized hardware silicon. This allows the FortiSwitch to perform packet lookups and forwarding decisions at "wire speed," which refers to the full throughput capacity of the physical ports.

By offloading these tasks to the ASIC, the switch minimizes latency and prevents the performance bottlenecks associated with general-purpose CPU processing.

In contrast, software-based routing (Options B and D) requires the main system CPU and kernel to process every packet, which is significantly slower and can lead to high CPU utilization during heavy traffic loads.

Option C is factually incorrect because hardware-based routing specifically avoids the kernel's software path to increase speed.

Therefore, for a deployment focused on maximizing routing performance, especially in a backbone or high-density branch environment, utilizing the ASIC-driven hardware forwarding path is the recommended approach in FortiSwitchOS 7.6.

## NEW QUESTION # 108

Which two statements about VLAN assignments on FortiSwitch ports are true? (Choose two.)

- A. Assign an IP address and subnet mask to FortiSwitch VLANs
- B. Configure a native VLAN on the FortiLink
- C. Only assign one native VLAN on a port
- D. Assign untagged VLANs using FortiGate CLI

**Answer: C,D**

Explanation:

VLAN assignments on FortiSwitch ports must follow certain rules and guidelines to ensure network integrity and proper traffic segregation:

\* Only Assign One Native VLAN on a Port (C):

\* Native VLAN Configuration: Each switch port can have only one native VLAN. The native VLAN carries untagged traffic for that port. If the port receives untagged frames, they are assumed to belong to the native VLAN.

\* Importance of Singular Native VLAN: This is crucial for preventing VLAN hopping attacks and ensures clear and secure VLAN demarcation on each port.

\* Assign Untagged VLANs Using FortiGate CLI (D):

\* CLI Configuration: Untagged VLANs, often equivalent to the native VLAN, can be assigned through the FortiGate CLI when managing a FortiSwitch via FortiLink. This allows for central management and configuration of VLANs across connected switches.

\* Operational Efficiency: Using the CLI ensures that VLAN settings are applied uniformly, reducing the likelihood of misconfigurations that might occur when managing VLANs individually on each switch.

References: For detailed instructions and best practices on VLAN configuration on FortiSwitch, refer to the FortiSwitch administration guide available on Fortinet Product Documentation

## NEW QUESTION # 109

Exhibit.

You need to manage three FortiSwitch devices using a FortiGate device. Two of the FortiSwitch devices initiated a reboot after the authorization process. However, the FortiSwitch device with the configuration shown in the exhibit did not reboot. All three devices completed FortiLink management authorization successfully.

Why did the FortiSwitch device shown in the exhibit not reboot to complete the authorization process?

The management mode was set to use FortiLink mode.

- A. Switch auto-discovery is enabled.
- B. The management mode was set to use FortiLink mode.
- C. The system time is not in-sync and is using a non-default value
- D. The FortiSwitch device is scheduled to reboot as part of the authorization process

**Answer: B**

Explanation:

Regarding the scenario where a FortiSwitch did not reboot after the authorization process while the other devices did, the most likely cause, given the configuration settings in the exhibit, is:

\* The management mode was set to use FortiLink mode (Option B): If the FortiSwitch was already configured to use FortiLink for its management mode, it may not require a reboot to complete the authorization process as its management interface settings are already aligned with FortiLink requirements. This is unlike switches that might be transitioning from a standalone or another management mode, which would typically require a reboot to apply new management settings fully.

#### References:

FortiLink mode specifically tailors FortiSwitch to be managed via a FortiGate device, integrating its operation into the wider security fabric without needing a reboot if it is already set to this mode before authorization.

This contrasts with other management modes where transitioning to FortiLink could necessitate a system restart to initialize the new configuration.

#### NEW QUESTION # 110

What can an administrator do to maintain a FortiGate-compatible FortiSwitch configuration when changing the management mode from standalone to FortiLink?

- A. Enable the FortiLink setting on FortiSwitch before the authorization process.
- B. FortiGate automatically saves the existing FortiSwitch configuration during the FortiLink management process.
- C. Register FortiSwitch to FortiSwitch Cloud to save a copy before managing with FortiGate.
- D. Use a migration tool based on Python script to convert the configuration.

**Answer: B**

#### NEW QUESTION # 111

Which two types of Layer 3 interfaces can participate in dynamic routing on FortiSwitch? (Choose two.)

- A. Detected management interfaces
- B. Loopback interfaces
- C. Physical interfaces
- D. Switch virtual interfaces

**Answer: B,D**

#### Explanation:

In dynamic routing on FortiSwitch, certain types of interfaces are utilized to participate in the routing processes. The types of interfaces that can be used include:

\* Loopback Interfaces (B):Loopback interfaces are virtual interfaces that are always up, making them ideal for use in routing protocols where a stable interface is necessary. They are commonly used to establish router IDs and manage routing information more reliably.

\* Switch Virtual Interfaces (C):Switch Virtual Interfaces (SVIs) are assigned to VLANs and can have IP addresses assigned to them, making them capable of participating in Layer 3 routing. SVIs are essential for routing between different VLANs on a switch and can participate in dynamic routing protocols to advertise networks or make routing decisions.

Physical Interfaces (D)andDetected Management Interfaces (A)are not typically used directly by dynamic routing protocols for their operations in the context of FortiSwitch.

References:For more information on how these interfaces interact with dynamic routing protocols, you can check the FortiSwitch documentation on Fortinet's official documentation site:Fortinet Product Documentation

#### NEW QUESTION # 112

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