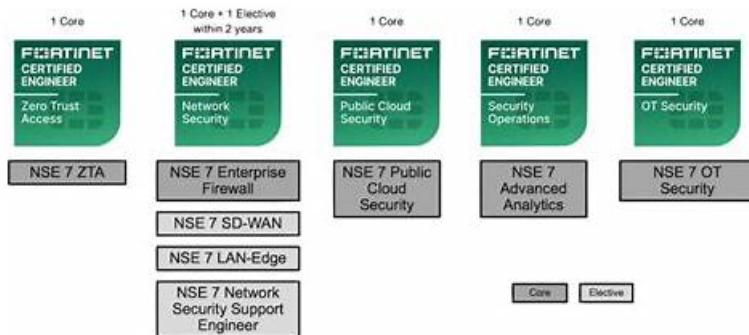


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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q99-Q104):

NEW QUESTION # 99

(Full question statement start from here)

How does enabling an IGMP snooping proxy on FortiSwitch help reduce the number of IGMP reports processed by the IGMP querier? (Choose one answer)

- A. By converting IGMP reports into broadcast packets to reach all VLAN members
- B. By converting IGMP traffic to unicast
- C. By suppressing duplicate IGMP reports within the VLAN
- D. By forwarding IGMP reports only when the first member joins and the last member leaves**

Answer: D

Explanation:

In FortiSwitchOS 7.6, IGMP snooping proxy is an enhancement to standard IGMP snooping that optimizes multicast control-plane

traffic between hosts, switches, and the upstream IGMP querier. Its primary purpose is to reduce the number of IGMP membership reports that the querier must process, thereby improving scalability and efficiency in multicast-enabled networks.

Without an IGMP snooping proxy, every multicast receiver on a VLAN independently sends IGMP membership reports to the querier. In environments with many hosts subscribing to the same multicast groups, this behavior can generate a large volume of redundant IGMP reports, unnecessarily increasing control-plane load on both the querier and intermediate network devices.

When the IGMP snooping proxy feature is enabled, the FortiSwitch acts as an IGMP proxy agent on behalf of hosts within the VLAN. The switch tracks multicast group membership locally and suppresses individual IGMP reports from downstream hosts. Instead, the FortiSwitch forwards an IGMP report upstream only when the first host joins a multicast group. Likewise, when hosts leave the group, the switch sends an IGMP leave message or reports only when the last remaining member leaves.

This aggregation mechanism dramatically reduces IGMP signaling traffic while preserving correct multicast forwarding behavior. Importantly, the switch does not alter IGMP packet types or convert them to broadcast or unicast traffic. It simply optimizes reporting behavior based on group membership state.

Therefore, the correct explanation is that IGMP snooping proxy reduces IGMP report processing by forwarding IGMP reports only when the first member joins and the last member leaves, making Option D the correct and fully verified answer according to FortiSwitchOS 7.6 documentation.

NEW QUESTION # 100

What happens when a routed VLAN interface (RVI) is configured on a FortiSwitch port or trunk? (Choose one answer)

- A. VLAN 1 is automatically assigned for management.
- **B. The port becomes a layer 3 interface with VLAN 4095 assigned automatically.**
- C. The port becomes a layer 3 interface and assigned to VLAN 1.
- D. All VLANs on the port are terminated in a trunk by default.

Answer: B

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6.1 Administration Guide-Standalone Mode, a Routed VLAN Interface (RVI) is a physical port or trunk interface that is converted to support Layer 3 routing protocols.² This transformation changes the fundamental nature of the interface from a switching component to a routing component.

When an RVI is enabled on a specific physical port or trunk, the system automatically assigns VLAN 4095 to that interface at the backend.³ This specific VLAN ID is reserved across the FortiSwitch platform to signal that the interface is no longer operating as a standard Layer 2 switch port.⁴ Once configured as an RVI, the interface supports advanced Layer 3 features such as OSPF, BGP, RIP, IS-IS, and static routing, as well as Virtual Routing and Forwarding (VRF) for routing isolation.⁵ Importantly, the documentation states that upon enabling RVI, Layer 2 protocols (such as Spanning Tree Protocol or 802.1X port-based security) and most standard switch interface features are disabled on that port.

This is because the port is now treated as a dedicated Layer 3 "routed" interface rather than a member of the Layer 2 switching fabric.⁶ Additionally, if the underlying physical port or trunk interface is administratively shut down, the associated RVI will also transition to a "down" state.

NEW QUESTION # 101

Refer to the diagnostic output:

What makes the use of the sniffer command on the FortiSwitch CLI unreliable on port 23?

- A. Just the port egress payloads are printed on CLI.
- B. The switch port might be used as a trunk member
- **C. The types of packets captured is limited.**
- D. Only untagged VLAN traffic can be captured.

Answer: C

Explanation:

Page 452 of 7.2 study guide, specifically states "Although you can use the sniffer command to capture traffic on switch ports, the types of packets capture by the sniffer are very limited."

The use of the sniffer command on FortiSwitch CLI can be unreliable on port 23 for specific reasons related to the nature of traffic on the port:

D). The switch port might be used as a trunk member. When a switch port is configured as a trunk, it can carry traffic for multiple VLANs. If the sniffer is set up without specifying VLAN tags or a range of VLANs to capture, it may not accurately capture or display all the VLAN traffic due to the volume and variety of VLAN-tagged packets passing through the trunk port. This limitation

makes using the sniffer on a trunk port unreliable for capturing specific VLAN traffic unless properly configured to handle tagged traffic.

References:

For guidelines on how to properly use sniffer commands on trunk ports and configure VLAN filtering, consult the FortiSwitch CLI reference available through Fortinet support channels, including the Fortinet Knowledge Base.

NEW QUESTION # 102

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

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

Answer: C

NEW QUESTION # 103

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

Answer: C

Explanation:

When transitioning the management of a FortiSwitch from standalone mode to being managed by FortiGate via FortiLink, it is critical to ensure that the existing configurations are preserved. The best practice involves:

* **FortiGate's Role in Configuration Preservation:** FortiGate has the capability to automatically preserve the existing configuration of a FortiSwitch when it is integrated into the network via FortiLink. This feature helps ensure that the transition does not disrupt the network's operational settings.

* **Configuration Integration:** As FortiSwitch is integrated into FortiGate's management via FortiLink, FortiGate captures and integrates the existing switch configuration, enabling a seamless transition. This process involves FortiGate recognizing the FortiSwitch and its current setup, then incorporating these settings into the centralized management interface without the need for manual reconfiguration or the use of additional tools.

References: For further details on managing FortiSwitch with FortiGate and the capabilities of FortiLink, consult the FortiSwitch and FortiGate integration guide available on Fortinet Product Documentation

NEW QUESTION # 104

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