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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q40-Q45):

NEW QUESTION # 40

Refer to the exhibit.

Debug output

FGT-1 # diagnose debug application fortilinkd 3
Debug messages will be on for 30 minutes.

```

133s:933ms:828us flp_get_rx_node[179]:received hdr_type(4) reserved(0x194) portname(port4) swnode(FS24VMTM25000128) fsw(FS24VMTM25000128) fl128
133s:945ms:945us flp_get_rx_node[179]:received hdr_type(6) reserved(0x194) portname(port4) swnode(FS24VMTM25000128) fsw(FS24VMTM25000128)
133s:959ms:628us flp_event_handler[767]:node: port4 received event 110 state FL_STATE_WAIT_CONN switchname FS24VMTM25000128 flags 0x1
133s:971ms:684us flp_get_rx_node[179]:received hdr_type(6) reserved(0x194) portname(port4) swnode(FS24VMTM25000128) fsw(FS24VMTM25000128)
133s:985ms:693us flp_event_handler[767]:node: port4 received event 112 state FL_STATE_WAIT_CONN switchname FS24VMTM25000128 flags 0x1
.....
341s:88ms:941us flp_get_rx_node[179]:received hdr_type(6) reserved(0x194) portname(port4) swnode(FS24VMTM25000128) fsw(FS24VMTM25000128)
341s:102ms:437us flp_get_rx_node[179]:received hdr_type(4) reserved(0x194) portname(port4) swnode(FS24VMTM25000128) fsw(FS24VMTM25000128)
341s:114ms:586us flp_get_rx_node[179]:received hdr_type(4) reserved(0x190) portname(port4) swnode(FS24VMTM25000129) fsw(FS24VMTM25000129)
341s:125ms:871us flp_event_handler[767]:node: port4 received event 110 state FL_STATE_READY switchname FS24VMTM25000128 flags 0x401
341s:140ms:645us flp_event_handler[767]:node: port4 received event 110 state FL_STATE_READY switchname FS24VMTM25000129 flags 0x401
341s:151ms:123us flp_event_handler[767]:node: port4 received event 111 state FL_STATE_READY switchname FS24VMTM25000128 flags 0x401
341s:163ms:741us flp_send_pkt[469]:pkt sent (type(5) flag=0xca node(port4) sw(FS24VMTM25000128) len(26) smac: 2: 9: f: 0: 5: 1 dmac:36:1c:17:b2:5e:be

```

You have just authorized a new FortiSwitch on your FortiGate, and it appears online in the GUI. To verify that FortiLink connectivity is healthy, what should you check next? (Choose one answer)

- A. Verify that FortiGate has pushed a new firmware image to FortiSwitch immediately.
- B. Check that the switch automatically disables all unused ports.
- C. Ensure the FortiSwitch is automatically sending log events to FortiAnalyzer.
- D. **Look for FortiLink heartbeat messages sent from FortiSwitch to FortiGate every few seconds and confirm FortiGate acknowledges them**

Answer: D

Explanation:

According to the FortiOS 7.6 Study Guide and the FortiSwitch 7.6 FortiLink Guide, the health and stability of the control plane between a FortiGate and a managed FortiSwitch are maintained through a continuous keepalive mechanism. Once a FortiSwitch is authorized and transitions to the `FL_STATE_READY` state (as shown in the debug output in the exhibit), the devices must ensure the management tunnel remains active.

The primary mechanism for this is the FortiLink heartbeat. The documentation specifies that a managed FortiSwitch sends heartbeat messages to the FortiGate every few seconds over the FortiLink interface. The FortiGate, acting as the controller, must acknowledge these heartbeats to confirm that the switch is still reachable and responding to management commands. If the FortiGate fails to receive a certain number of consecutive heartbeats, it will consider the switch "offline" in the GUI, even if physical link lights remain green.

Checking for these heartbeat exchanges is a critical troubleshooting step to verify that the CAPWAP (Control and Provisioning of Wireless Access Points) based management tunnel is functioning correctly without intermittent drops. Option A is incorrect as port disabling is a configuration choice, not a health check. Option C is incorrect because firmware updates are manual or scheduled, not automatic upon authorization. Option D is a logging function that relies on a healthy management tunnel but is not a direct measure of the FortiLink's operational health.

NEW QUESTION # 41

What does the `switchauto-networksetting` control on FortiSwitch? (Choose one answer)

- A. The automatic VLAN assignment based on connected devices
- B. The root bridge priority for Multiple Spanning Tree Protocol (MSTP)
- C. **The automatic discovery of the FortiGate->FortiLink interface**
- D. Whether the FortiSwitch can be managed by FortiManager

Answer: C

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, the `auto-network` setting (configured via config `switch auto-network`) is a global feature introduced to simplify the initial deployment of switches. Starting in FortiSwitchOS 7.2.0 and continuing through 7.6, this feature is enabled by default on all new and factory-reset units.¹ The primary function of the `auto-network` setting is to facilitate the automatic discovery of the FortiGate and the establishment of the FortiLink interface (Option B). When enabled, the switch automatically scans its physical ports to detect a management entity, such as a FortiGate controller. This "zero-touch" discovery mechanism allows the switch to identify the correct uplink ports and automatically configure them as members of the FortiLink fabric without manual CLI or GUI intervention.

Furthermore, the documentation notes that `auto-network` also manages auto-topology, which allows two switches to automatically form an Inter-Switch Link (ISL) trunk between them.² This includes setting the management VLAN (typically VLAN 4094) and ensuring that DHCP snooping is trusted on these discovered links.³ If an administrator intends to use the switch in a strictly

standalone mode without any auto-discovery or FortiLink features, the documentation specifies that they must manually disable the auto-network status and the auto-fortilink-discovery global settings to prevent the switch from attempting to join a managed fabric.

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Regarding other options: Option A refers to Dynamic Port Policy or NAC features. Option C is a standard STP configuration unrelated to the auto-network discovery suite. Option D is a broader management capability that depends on successful network discovery but is not the specific control point for the auto-network setting.

NEW QUESTION # 42

FortiGate is unable to establish a tunnel with the FortiSwitch device it is supposed to manage. Based on the debug output shown in the exhibit, what is the reason for the failure?

- A. The CAPWAP tunnel failed to come up due to a mismatch in time.
- B. FortiSwitch has disabled FortiLink and is only managed as a standalone.
- C. The handshake process timed out before FortiSwitch responded.
- D. DTLS client hello had the incorrect pre-shared key.

Answer: A

Explanation:

The issue described pertains to the establishment of a tunnel (likely a CAPWAP tunnel for management purposes between FortiGate and FortiSwitch). Based on typical error analysis in tunnel setup scenarios:

* The CAPWAP tunnel failed to come up due to a mismatch in time (Option C): This answer is plausible because time synchronization is crucial for security protocols that underpin tunnel establishments, such as DTLS (Datagram Transport Layer Security) used within CAPWAP tunnels. If the clocks on FortiGate and FortiSwitch are significantly out of sync, the security handshake (which can include timestamp validation) could fail, preventing the tunnel from coming up.

References:

Fortinet's technical documentation typically outlines the importance of time synchronization for secure communications. In CAPWAP/DLTS scenarios, precise time matching is crucial to ensure that the cryptographic parameters align correctly during the handshake process.

NEW QUESTION # 43

Which two statements about DHCP snooping enabled on a FortiSwitch VLAN are true? (Choose two.)

- A. **switch-controller-dhcp-snooping-verify-mac** verifies the destination MAC address to protect against DHCP exhaustion attacks.
- B. By default, all FortiSwitch ports are set to forward client DHCP requests to untrusted ports.
- C. **Settings related to DHCP option 82 are only configurable through the CLI**
- D. Enabling DHCP snooping on a FortiSwitch VLAN ensures requests and replies are seen by all DHCP servers.

Answer: A,C

Explanation:

* **switch-controller-dhcp-snooping-verify-mac** verifies the destination MAC address to protect against DHCP exhaustion attacks (B): This feature of DHCP snooping helps prevent DHCP exhaustion attacks by ensuring that the destination MAC addresses in DHCP packets match the MAC addresses learned by the switch. This check helps prevent attackers from overwhelming the DHCP server with requests from spoofed MAC addresses.

* **Settings related to DHCP option 82 are only configurable through the CLI** (D): DHCP Option 82 is used for "agent information," and it's typically used in network environments where additional information between DHCP clients and servers is necessary for policy and billing purposes.

Configuration of these settings in FortiSwitch is only available through the Command Line Interface (CLI), not the Graphical User Interface (GUI).

NEW QUESTION # 44

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

- A. FortiGate automatically saves the existing FortiSwitch configuration during the FortiLink management process.

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

Answer: A

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 # 45

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