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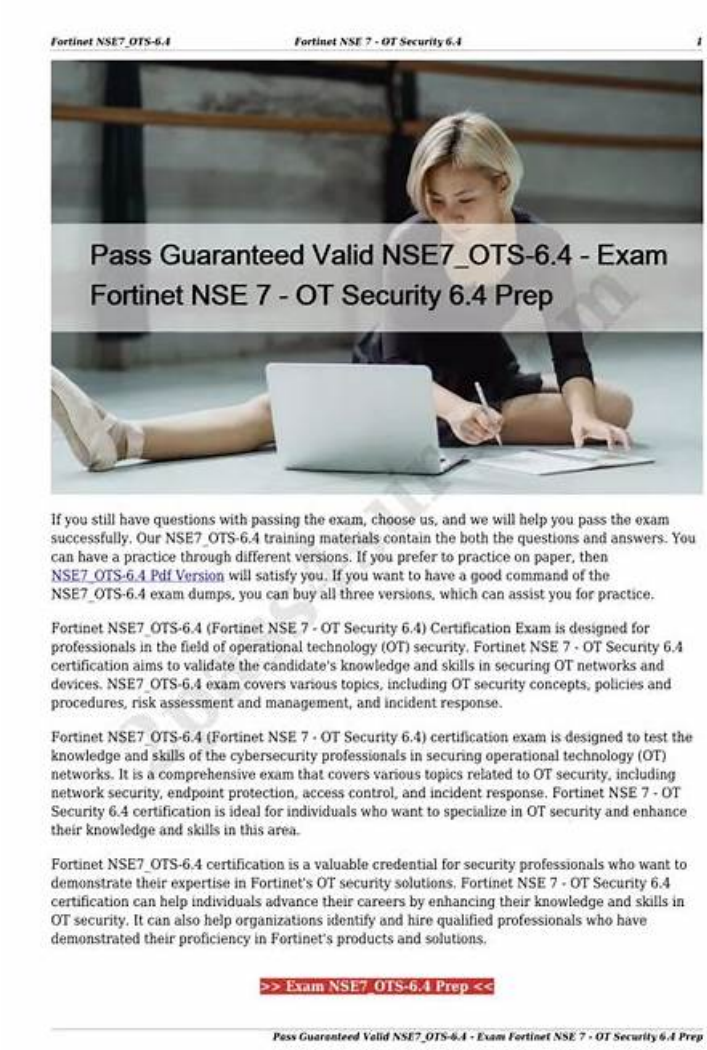

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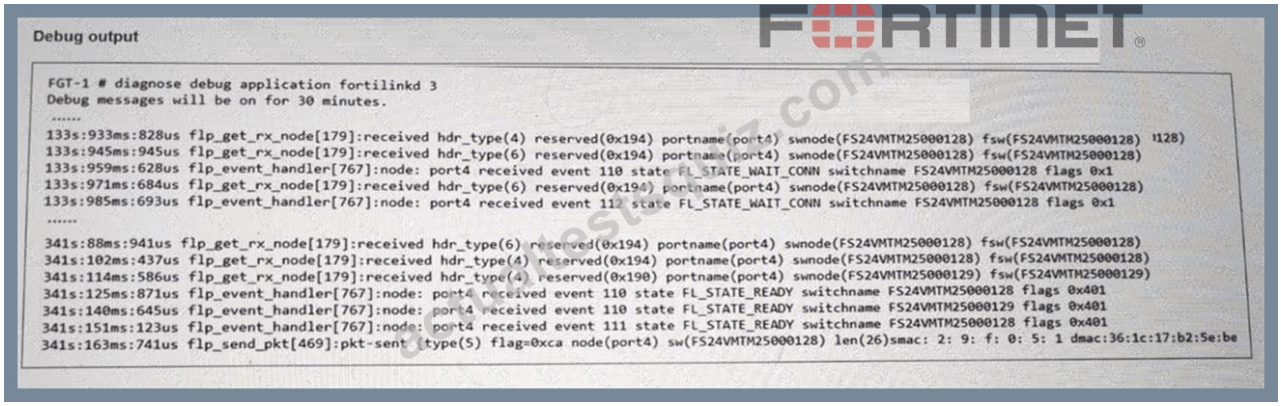
Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q68-Q73):

NEW QUESTION # 68
Refer to the exhibit.



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

Answer: B

Explanation:
According to theFortiOS 7.6 Study Guideand theFortiSwitch 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 theFL_STATE_READYstate (as shown in the debug output in the exhibit), the devices must ensure the management tunnel remains active.
The primary mechanism for this is theFortiLink 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 theCAPWAP(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 # 69
(Full question statement start from here)
How does FortiSwitch determine the route for traffic traversing its interfaces? (Choose one answer)

- A. FortiSwitch looks up the hardware routing table and then the forwarding information base (FIB).
- B. Hardware-based routing on FortiSwitch is handled by the CPU.
- C. FortiSwitch forwards all traffic to FortiGate for routing decisions.
- D. ASIC hardware routing can handle only dynamic routing, if supported.

Answer: A

Explanation:
FortiSwitch determines how traffic is routed by leveraging atwo-tier routing lookup mechanismthat prioritizes hardware-based forwarding before software-based processing. According to theFortiSwitchOS 7.6 Administrator Guide, FortiSwitch first checks thehardware routing table, which is populated with a subset of routes installed from the Forwarding Information Base (FIB) and programmed directly into the switch ASIC.
The hardware routing table contains routes that are eligible for ASIC acceleration. When a packet arrives on a FortiSwitch interface, the switch performs a lookup in this hardware routing table. If a matching route is found, the packet is forwarded at wire speed using ASIC-based forwarding, which provides optimal performance and minimal latency. This process is referred to ashardware-based routing.
If no matching route exists in the hardware routing table, FortiSwitch then performs a lookup in the Forwarding Information Base (FIB), which resides in the kernel. Routes in the FIB are handled by the CPU and processed throughsoftware-based routing. This fallback mechanism ensures correct forwarding behavior even when routes cannot be offloaded to hardware.
The FortiSwitchOS documentation explicitly states that the hardware routing table indicates which routes in the FIB are installed in hardware. This confirms that routing decisions are not exclusively offloaded to FortiGate, nor are they limited to CPU-based processing alone. Instead, FortiSwitch uses ahierarchical lookup order: hardware routing table first, followed by the FIB.
Therefore, the correct and fully documented answer isC. FortiSwitch looks up the hardware routing table and then the forwarding information base (FIB).

NEW QUESTION # 70
An administrator must deploy managed FortiSwitch devices in a remote location where multiple VLANs must be used to segment devices. No layer 3 switch or router is present at the site, and the only WAN connectivity is an ISP-provided router connected to the public internet. Which two components are required to enable VLAN segmentation across this remote site? (Choose two answers)

- A. A layer 3 router at the remote location to handle inter-VLAN routing
- B. FortiGate with a layer 3 interface to terminate the VXLAN overlay
- C. FortiGate and FortiSwitch configured with VXLAN to tunnel VLANs over the WAN
- D. FortiSwitch and FortiGate devices configured with IPsec interfaces
- E. A FortiSwitch model that supports VXLAN hardware acceleration

Answer: B,C

Explanation:
According to theFortiOS 7.6 Administration Guideand theFortiSwitch 7.6 FortiLink Guide, deploying managed switches over a Layer 3 underlay-such as the public internet-requires a specific tunneling mechanism to bridge Layer 2 broadcast domains. Traditional FortiLink relies on a direct Layer 2 connection; however, for remote sites,FortiLink over VXLANis the standard solution.
* FortiLink over VXLAN (Option A):Virtual Extensible LAN (VXLAN) is used to encapsulate Layer 2 Ethernet frames into Layer 3 UDP packets, allowing VLAN-tagged traffic to traverse an ISP's routable network. This enables the FortiGate to manage remote FortiSwitch "islands" as if they were locally connected, maintaining full VLAN segmentation across the WAN.
* Layer 3 Termination (Option E):The FortiGate acts as theVirtual Tunnel Endpoint (VTEP). It must have a reachable Layer 3 interface (such as a WAN port with a public IP or an IPsec tunnel interface) to terminate the VXLAN overlay. Once the VXLAN tunnel is terminated at the FortiGate, the encapsulated VLAN traffic is extracted, and the FortiGate can perform inter-VLAN routing and security inspection.
Regarding the incorrect options:Option Bis incorrect because the FortiGate at the central site handles the routing, eliminating the need for a local L3 device.Option Cis a performance consideration but not a functional requirement for basic connectivity.Option Dis often used for security to encrypt the underlay, but IPsec alone does not provide the Layer 2 extension capabilities required for VLAN segmentation; VXLAN is the specific component that handles the MAC-in-UDP encapsulation.

NEW QUESTION # 71
Which three are valid actions that a FortiSwitch access control list (ACL) can apply to matching traffic?
(Choose three answers)

- A. Set outer VLAN tags
- B. Quarantine devices
- C. QoS
- D. Assign the VLAN ID

- E. Traffic processing

Answer: A,C,E

Explanation:
According to theFortiSwitchOS 7.6 Administration Guideand theNSE 5 FortiSwitch 7.6 Administrator Study Guide, Access Control Lists (ACLs) are used to perform multiple actions on matching traffic as it passes through the switch pipeline. The documentation explicitly categorizes these valid actions into three distinct functional groups:Traffic processing,QoS (Quality of Service), andVLANmodifications.
* Traffic Processing (Option C):This is a primary category of ACL actions. It includes operations that dictate how a frame is physically handled or monitored. Valid specific actions under this category includedrop(discarding the packet),count(incrementing a packet counter for statistics),redirect (sending the packet to a specific interface or CPU queue), andmirror(copying the traffic to a monitor port).
* QoS (Option E):The QoS category allows the switch to manage traffic prioritization and bandwidth.
ACLs can be configured toset the egress queue(assigning a frame to one of the eight priority queues), remark CoS (Class of Service)orDSCP (Differentiated Services Code Point)values in the frame header, and applypolicersfor rate limiting.
* VLAN / Set outer VLAN tags (Option D):Under the VLAN category, the most notable action is the ability toset outer VLAN tagson frames. This is particularly useful in scenarios involving Q-in-Q tunneling or service provider environments where a secondary tag is required for transport across a managed fabric.
It is important to note thatAssign the VLAN ID (Option A)is typically a function ofNAC (Network Access Control)orDynamic VLAN Assignmentrather than a standard ACL action; within an ACL context, vlan-id is primarily used as aclassifier(to match traffic) rather than an action.Quarantine devices (Option B)is a high- level security response triggered by the FortiGate NAC engine and is not a direct action available within the FortiSwitch ACL configuration menu.

NEW QUESTION # 72
Refer to the exhibit.

A periodic heartbeat message sent from a managed FortiSwitch and corresponding acknowledgments from FortiGate is shown.
What does this behavior indicate? (Choose one answer)

- A. FortiSwitch has not been authorized yet.
- B. FortiGate is unable to establish a FortiLink session with FortiSwitch.
- C. The FortiLink connection between FortiGate and FortiSwitch is healthy and active.
- D. FortiSwitch is expecting an authorization from FortiGate.

Answer: C

Explanation:
According to theFortiOS 7.6 Study Guideand theFortiSwitch 7.6 FortiLink Guide, the health of the Control and Provisioning of Wireless Access Points (CAPWAP) based management tunnel between a FortiGate and a FortiSwitch is maintained through a continuous keepalive mechanism. The provided exhibit captures the fortilinkd process logs, which are essential for verifying the operational status of the FortiLink control plane.
The debug output reveals two critical indicators of a successful connection:
* State Transitions:The lines at timestamp 341s show the managed switch (FS24VMTM25000128) has reached theFL_STATE_READYstate. This state indicates that the discovery, authorization, and configuration synchronization phases are complete, and the switch is now fully operational under the FortiGate's management.
* Heartbeat Mechanism:The entry flp_send_pkt[469]:pkt-sent {type(5)} represents the transmission of a FortiLink heartbeat. TheseType 5 packetsare sent every few seconds to verify that the peer device is still reachable and responsive. In a healthy environment, the FortiGate sends these heartbeats, and the FortiSwitch responds (or vice versa depending on the specific sub-

protocol phase), ensuring the management tunnel remains active.
The regular exchange of these messages as shown in the exhibit confirms that the FortiLink connection is healthy and active. If the switch were unauthorized or stuck in a negotiation phase, the state would be shown as FL_STATE_WAIT_AUTH or FL_STATE_DISCOVERY, and the periodic type(5) heartbeats would either be absent or not acknowledged.

NEW QUESTION # 73
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