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Fortinet NSE5_FSW_AD-7.6 Exam Syllabus Topics:

Topic	Details
Topic 1	• Monitoring and troubleshooting: This domain covers packet capture methods, FortiLink troubleshooting, and diagnostic tools used to monitor traffic and resolve network issues.
Topic 2	• Deployment and management: This domain includes provisioning and deploying FortiSwitch in supported topologies, including multi-tenancy environments. It emphasizes proper setup, scalability, and centralized management.
Topic 3	• Layer 2 control and security: This section focuses on Layer 2 security features such as port security, filtering, antispoofing, ACLs, security profiles, and VLAN security mechanisms to protect switched networks.
Topic 4	• FortiSwitch concepts: This domain covers core FortiSwitch features including VLAN configuration, QoS, LLDP-MED, stacking, switching and routing, STP for loop prevention, and port and transceiver configuration. It focuses on essential switching operations and network integration.

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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q42-Q47):

NEW QUESTION # 42
Refer to the exhibit.

Debug capture of the `fortilinkd` process on FortiGate

```
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) 128)
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
```

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 is expecting an authorization from FortiGate.
- 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 has not been authorized yet.

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 # 43
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 and assigned to VLAN 1.

- C. The port becomes a layer 3 interface with VLAN 4095 assigned automatically.1
- D. All VLANs on the port are terminated in a trunk by default.

Answer: C

Explanation:
According to theFortiSwitchOS 7.6 Administration Guideand theFortiSwitch 7.6.1 Administration Guide-Standalone Mode, aRouted VLAN Interface (RVI)is a physical port or trunk interface that is converted to support Layer 3 routing protocols.2This 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 assignsVLAN 4095to that interface at the backend.3This 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.4Once configured as an RVI, the interface supports advanced Layer 3 features such asOSPF, 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 aredisabledon that port.
6This is because the port is now treated as a dedicated Layer 3 "routed" interface rather than a member of the Layer 2 switching fabric.7Additionally, if the underlying physical port or trunk interface is administratively shut down, the associated RVI will also transition to a "down" state.

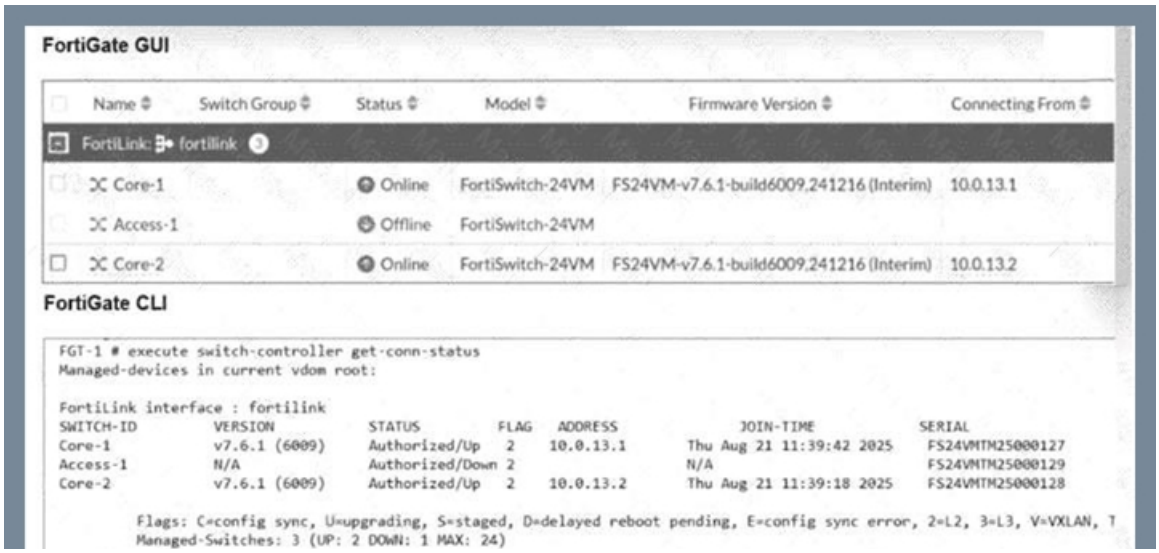
NEW QUESTION # 44
How are the 'by VLAN redirect MAC address quarantine' mode and the 'by redirect MAC address quarantine' mode on FortiGate similar?

- A. Both modes require firewall policies to block inter-VLAN traffic.
- B. Both modes block intra-VLAN traffic by FortiGate automatically.
- C. Both modes add quarantined device MAC addresses to the blocked firewall address group.
- D. Both modes move quarantined devices to the quarantine VLAN.

Answer: D

Explanation:
The 'by VLAN redirect MAC address quarantine' mode and the 'by redirect MAC address quarantine' mode on FortiGate share specific similarities:
* Quarantine VLAN Assignment (A):
* Common Feature:Both modes utilize a designated quarantine VLAN to isolate quarantined devices. This helps in mitigating the risk of spreading potential security threats within the network.
* Operational Impact:Moving devices to a specific quarantine VLAN restricts their network access, effectively isolating them until further action or remediation is taken.

NEW QUESTION # 45
(Full question statement start from here)
Refer to the exhibits.



```
FGT-1 # execute switch-controller get-conn-status Access-1

Get managed-switch Access-1 connection status:
Admin Status: Authorized
Connection: Idle (capwap)


Diagnosing...
FGT can not detect Access-1 at fortilink.
Please Check FortiGate:
        CAPWAP in fortilink is enabled.
Please Check FortiSwitch:
        1. Access-1 is in FortiLink mode.
        2. Access-1 is managed via fortilink.
        3. Execute 'execute switch-controller diagnose-connection Access-1' for further details.

FGT-1 # show system interface fortilink
config system interface
    edit "fortilink"
        set vdom "root"
        set fortilink enable
        set ip 10.0.13.254 255.255.255.0
        set allowaccess ping fabric
        set type aggregate
        set member "port3" "port4"
        set lldp-reception enable
        set lldp-transmission enable
        set snmp-index 14
        set fortilink-split-interface disable
        set switch-controller-nac "fortilink"
        set switch-controller-dynamic "fortilink"
    next
end
```

FortiSwitch Access-1 CLI

```
Access-1 # get system interface
== [ mgmt ]
name: mgmt    status: up    mode: static    ip: 10.0.1.163 255.255.255.0    type: physical    vrf: (null)
== [ internal ]
name: internal    status: up    mode: static    ip: 0.0.0.0 0.0.0.0    type: physical    vrf: (null)

Access-1 # diagnose switch trunk summary

Trunk Name          Mode                    PSC          MAC                Status       Up Time
------------------  ----------------------  -----------  -----------------  -----------  -------


Access-1 #
Access-1 # diagnose switch trunk list

Switch Trunk Information, primary-Channel
```

Diagnose output

```
Access-1 # diagnose switch physical-ports summary
  Portname    Status  Tpid  Vlan  Duplex  Speed  Flags          Discard
  ----------  ------  ----  ----  ------  -----  -------------  -------

  port1       up      8100  1     full    1G     QS,  ,         none
  port2       up      8100  1     full    1G     QS,  ,         none
  port3       up      8100  1     full    1G     QS,  ,         none
  port4       up      8100  10    full    1G     QS,  ,         none
  port5       down    8100  1     full    1G     QS,  ,         none
  port6       down    8100  1     full    1G     QS,  ,         none
  port7       down    8100  1     full    1G     QS,  ,         none
  port8       down    8100  1     full    1G     QS,  ,         none
  port9       down    8100  1     full    1G     QS,  ,         none
  port10      down    8100  1     full    1G     QS,  ,         none
  port11      down    8100  1     full    1G     QS,  ,         none
  port12      down    8100  1     full    1G     QS,  ,         none
  port13      down    8100  1     full    1G     QS,  ,         none
  port14      down    8100  1     full    1G     QS,  ,         none
  port15      down    8100  1     full    1G     QS,  ,         none
  port16      down    8100  1     full    1G     QS,  ,         none
  port17      down    8100  1     full    1G     QS,  ,         none
  port18      down    8100  1     full    1G     QS,  ,         none
  port19      down    8100  1     full    1G     QS,  ,         none
  port20      down    8100  1     full    1G     QS,  ,         none
  port21      down    8100  1     full    1G     QS,  ,         none
  port22      down    8100  1     full    1G     QS,  ,         none
  port23      down    8100  1     full    1G     QS,  ,         none
  port24      down    8100  1     full    1G     QS,  ,         none
  internal    up      8100  1     full    1G       ,  ,         none

  Flags: QS(802.1Q) QE(802.1Q-in-Q,external) QI(802.1Q-in-Q,internal)
  TS(static trunk) TF(forti trunk) TL(lacp trunk); MD(mirror dst)
  MI(mirror ingress) ME(mirror egress) MB(mirror ingress and egress)
  CF (Combo Fiber), CC (Combo Copper) LL(LoopBack Local) LR(LoopBack Remote)
```


Three FortiSwitch devices were recently configured to be managed by FortiGate. Two are managed successfully, butFortiSwitch Access-1is not.

Based on the configuration output, whichinitial changeis required for FortiSwitch Access-1 to be managed?

(Choose one answer)

- A. Set Access-1 internal interface mode to DHCP.
- B. Assign a static IP on FortiSwitch Access-1.
- C. Change its Control and Provisioning of Wireless Access Points (CAPWAP) settings.
- D. Change the NTP server.

Answer: A

Explanation:
In a FortiGate-managed switching deployment usingFortiLink, FortiSwitch devices rely on theirinternal interfaceto establish management connectivity with the FortiGate. According to the FortiSwitchOS 7.6 Administrator Guide, when a FortiSwitch operates in FortiLink mode, theinternal interface must obtain an IP address dynamically via DHCPfrom the FortiGate over the FortiLink interface. This IP address is required for control-plane communication, including CAPWAP-based management messaging.
From the exhibit, FortiGate successfully managesCore-1andCore-2, whileAccess-1remains offline. The FortiGate diagnostic output explicitly reports that itcannot detect Access-1 at the FortiLink interface, even though CAPWAP is enabled and the switch is in FortiLink mode. This eliminates CAPWAP configuration (Option B) as the root cause.
Examining the FortiSwitch Access-1 CLI output reveals the key issue:
* Theinternal interfaceis configured withmode: staticand an IP address of0.0.0.0.
This configuration prevents Access-1 from obtaining a valid FortiLink management IP address, which is mandatory for FortiGate discovery and authorization. In contrast, FortiSwitch devices managed by FortiGate must have their internal interface set toDHCP, allowing the FortiGate to automatically assign an address from the FortiLink subnet.
Assigning a static IP (Option A) is not recommended or required in FortiLink-managed mode, NTP configuration (Option D) has no impact on discovery, and CAPWAP is already enabled as shown in the FortiGate output.
Therefore, theinitial and required corrective actionis toset the Access-1 internal interface mode to DHCP
, makingOption Cthe correct and fully verified answer based on FortiOS 7.6 and FortiSwitchOS 7.6 documentation.

NEW QUESTION # 46
Which feature should you enable to reduce the number or unwanted IGMP reports processed by the IGMP querier?

- A. Enable IGMP flood unknown multicast traffic on the global setting.
- B. Enable the IGMP flood reports setting on the mRouter port.
- C. Enable IGMP snooping proxy.
- D. Enable the IGMP flood setting on the static port for all multicast groups.

Answer: C

Explanation:
Enable IGMP snooping proxy (C): To reduce the number of unwanted IGMP reports processed by the IGMP querier, enabling IGMP snooping proxy is effective. This feature acts as an intermediary between multicast routers and hosts, optimizing the management of IGMP messages by handling report messages locally and reducing unnecessary IGMP traffic across the network. This minimizes the processing load on the IGMP querier and improves overall network efficiency.

NEW QUESTION # 47
.....

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