Vendor: Fortinet

Exam Code: NSE5_FSW_AD-7.6

Exam Name: Fortinet NSE 5 - FortiSwitch 7.6 Administrator

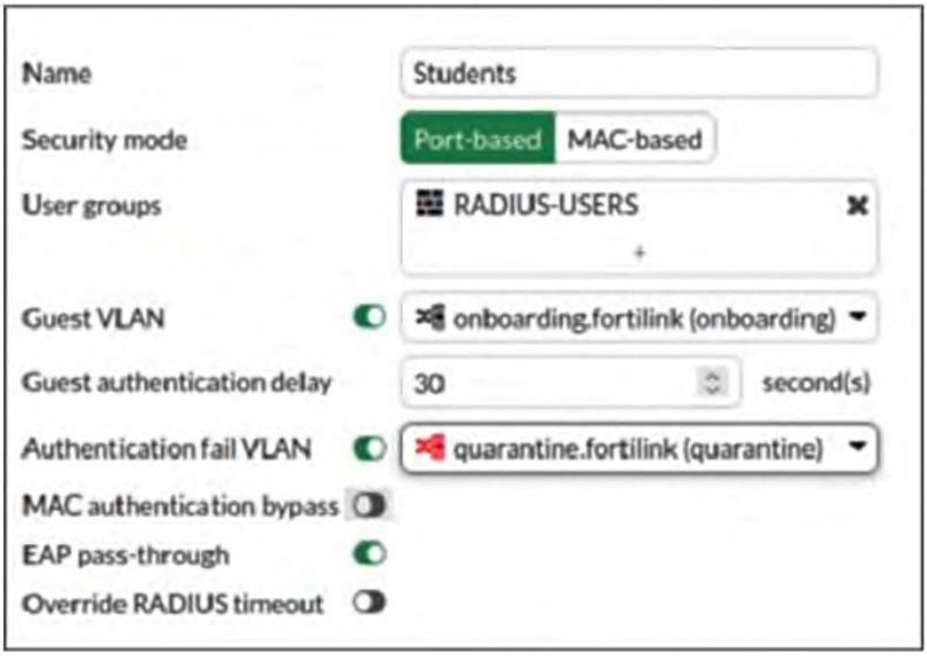
Version: DEMO

QUESTION 1
What is one key advantage of using a sniffer profile on FortiSwitch compared to using the sniffer command?

A. It allows packet capture on all switch ports without limitations.
B. It eliminates the need to use access control lists (ACLs) or port mirroring for analysis.
C. It automatically filters irrelevant traffic types.
D. It automatically decrypts SSL/TLS traffic for full packet inspection.

Answer: C
Explanation:
A sniffer profile allows predefined capture criteria to filter traffic based on specific parameters, so only relevant packets are collected. This reduces unnecessary traffic in the capture and makes analysis more efficient compared to the generic sniffer command.

QUESTION 2
Refer to the exhibit.



The security port policy is configured as shown in the exhibit.

Which behavior occurs if a device connected to the port that does not support 802.1X?

A. The device is blocked from accessing the network.
B. The device is placed into the onboarding VLAN.
C. The device is placed into the quarantine VLAN.
D. The device is assigned to the default management VLAN.

Answer: B
Explanation:

With port-based 802.1X enabled and a guest VLAN configured, devices that do not support or do not complete 802.1X authentication are automatically placed into the guest (onboarding) VLAN, allowing limited or remediation access instead of being fully blocked or quarantined.

QUESTION 3
When Dynamic Host Configuration Protocol (DHCP) snooping is enabled on a FortiSwitch VLAN, which two statements are true? (Choose two.)

A. DHCP replies are accepted only on trusted ports.
B. DHCP snooping blocks all unicast traffic.
C. Option 82 can be inserted into DHCP requests.
D. DHCP requests are dropped if sent from trusted ports.

Answer: AC
Explanation:
DHCP snooping allows DHCP server responses only on trusted ports to prevent rogue DHCP servers from sending unauthorized replies. It can also insert Option 82 information into DHCP requests to add relay agent details that help identify the client's location and improve address management and security.

QUESTION 4
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)
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.

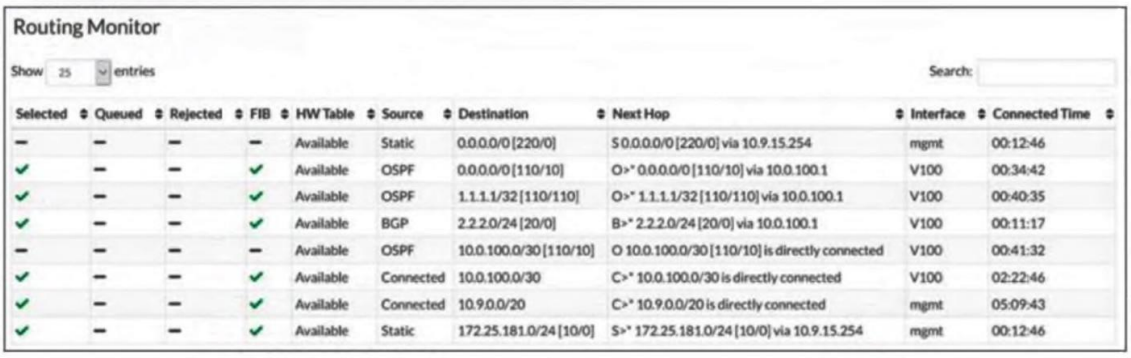
What does this behavior indicate?

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

Answer: A
Explanation:
Regular heartbeat messages from the FortiSwitch and corresponding acknowledgments from the FortiGate show continuous keepalive communication over FortiLink, confirming that the management session is established and operating normally.

QUESTION 5
Refer to the exhibit.

Routing Monitor



Routing Monitor

Show 25 entries Search:

Selected	Queued	Rejected	FIB	HW Table	Source	Destination	Next Hop	Interface	Connected Time
–	–	–	–	Available	Static	0.0.0.0/0 [220/0]	S 0.0.0.0/0 [220/0] via 10.9.15.254	mgmt	00:12:46
✔	–	–	✔	Available	OSPF	0.0.0.0/0 [110/10]	O>* 0.0.0.0/0 [110/10] via 10.0.100.1	V100	00:34:42
✔	–	–	✔	Available	OSPF	1.1.1.1/32 [110/110]	O>* 1.1.1.1/32 [110/110] via 10.0.100.1	V100	00:40:35
✔	–	–	✔	Available	BGP	2.2.2.0/24 [20/0]	B>* 2.2.2.0/24 [20/0] via 10.0.100.1	V100	00:11:17
–	–	–	–	Available	OSPF	10.0.100.0/30 [110/10]	O 10.0.100.0/30 [110/10] is directly connected	V100	00:41:32
✔	–	–	✔	Available	Connected	10.0.100.0/30	C>* 10.0.100.0/30 is directly connected	V100	02:22:46
✔	–	–	✔	Available	Connected	10.9.0.0/20	C>* 10.9.0.0/20 is directly connected	mgmt	05:09:43
✔	–	–	✔	Available	Static	172.25.181.0/24 [10/0]	S>* 172.25.181.0/24 [10/0] via 10.9.15.254	mgmt	00:12:46

The routing monitor displays multiple route entries, but only some are installed in the forwarding information base (FIB).

After analyzing the two route entries with the destination `0.0.0.0/0`, which statement correctly describe why one of these routes is not installed in the FIB?

A. The OSPF route has a higher metric, making it less preferred than the static route.
B. The interface V100 for the OSPF route is down, preventing its installation.
C. The OSPF route with a lower administrative distance is preferred over the static route.
D. The two routes have identical destination prefixes, causing a conflict where only one is selected.

Answer: C
Explanation:
Both routes are for the same destination prefix (0.0.0.0/0), so only the most preferred default route is installed in the FIB. The OSPF-learned default route has a lower administrative distance than the static default route shown, so it is selected and installed while the other is not.

QUESTION 6
You are deploying a small office network with a single FortiGate and a single FortiSwitch. The office currently has moderate traffic, but the IT team expects the network to grow in the near future, adding more FortiSwitch devices and endpoints.

Which FortiLink configuration should you deploy to provide the best combination of current performance and scalability for future growth?

A. Configure FortiLink using hardware-based switch interfaces.
B. Configure FortiLink using software-based switch interfaces.
C. Configure FortiLink as a link aggregation group (LAG) interface.
D. Configure FortiLink as a multichassis LAG (MCLAG) interface.

Answer: C
Explanation:
Using a FortiLink LAG provides higher throughput and redundancy immediately by bundling

multiple physical links into one logical FortiLink interface, and it scales well as the environment grows because you can increase bandwidth by adding member links and expand downstream managed switches without changing the management design.

QUESTION 7
You are configuring VLANs on a FortiSwitch device managed by FortiGate.

Which two statements accurately describe VLAN assignment requirements and behavior on FortiSwitch ports? (Choose two.)

A. Untagged defines the list of VLANs that are allowed on the port for both ingress and egress traffic.
B. Untagged VLAN applies to egress traffic only.
C. You can assign only one native VLAN on a port.
D. VLAN assignments must be configured directly on the FortiSwitch.

Answer: BC
Explanation:
The untagged VLAN setting controls how frames leave the port, meaning it applies to egress traffic by sending frames without tags. A port can have only one native (untagged) VLAN, which is the single VLAN used for untagged traffic on that interface.

QUESTION 8
You are configuring FortiSwitch to perform layer 3 inter-VLAN routing while managed by FortiGate over FortiLink. On supported hardware models, FortiSwitch can offload routing decisions for better performance.

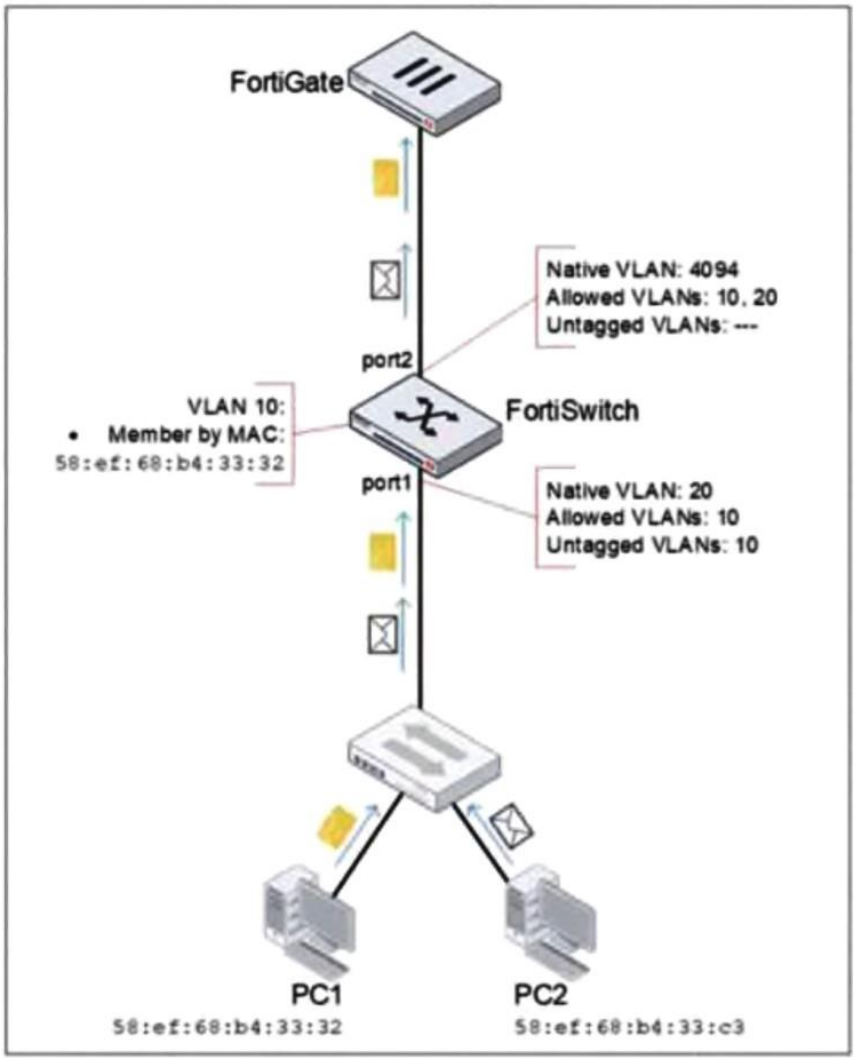
How does FortiSwitch perform routing between VLANs?

A. By using a hardware forwarding table (FIB) programmed into ASIC.
B. By supporting only dynamic routing protocols in hardware.
C. By disabling routing when managed by FortiGate.
D. By relying entirely on the CPU in software.

Answer: A
Explanation:
Supported FortiSwitch models use ASIC acceleration to perform inter-VLAN routing by programming routes into a hardware forwarding table (FIB), allowing packets to be forwarded at wire speed without relying on the CPU.

QUESTION 9
Refer to the exhibit.

Network Topology



PC1 and PC2 are connected to port1 on FortiSwitch.

Which VLAN tags will FortiSwitch apply when forwarding PC1 and PC2 traffic out of port2?

A. FortiSwitch will tag PC1 and PC2 frames with VLAN 20.
B. FortiSwitch will tag both PC1 and PC2 frames with VLAN 10, due to MAC override.
C. FortiSwith will tag PC1 frames with VLAN 10 and PC2 frames with VLAN 20.
D. FortiSwitch will leave PC1 frames untagged and will tag PC2 frames with VLAN 10.

Answer: C
Explanation:
PC1 is assigned to VLAN 10 through MAC-based VLAN membership, while PC2 uses the port's native VLAN 20. Since port2 carries VLANs as tagged traffic (no untagged VLANs configured on port2), FortiSwitch forwards PC1 traffic with a VLAN 10 tag and PC2 traffic with a VLAN 20 tag.

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