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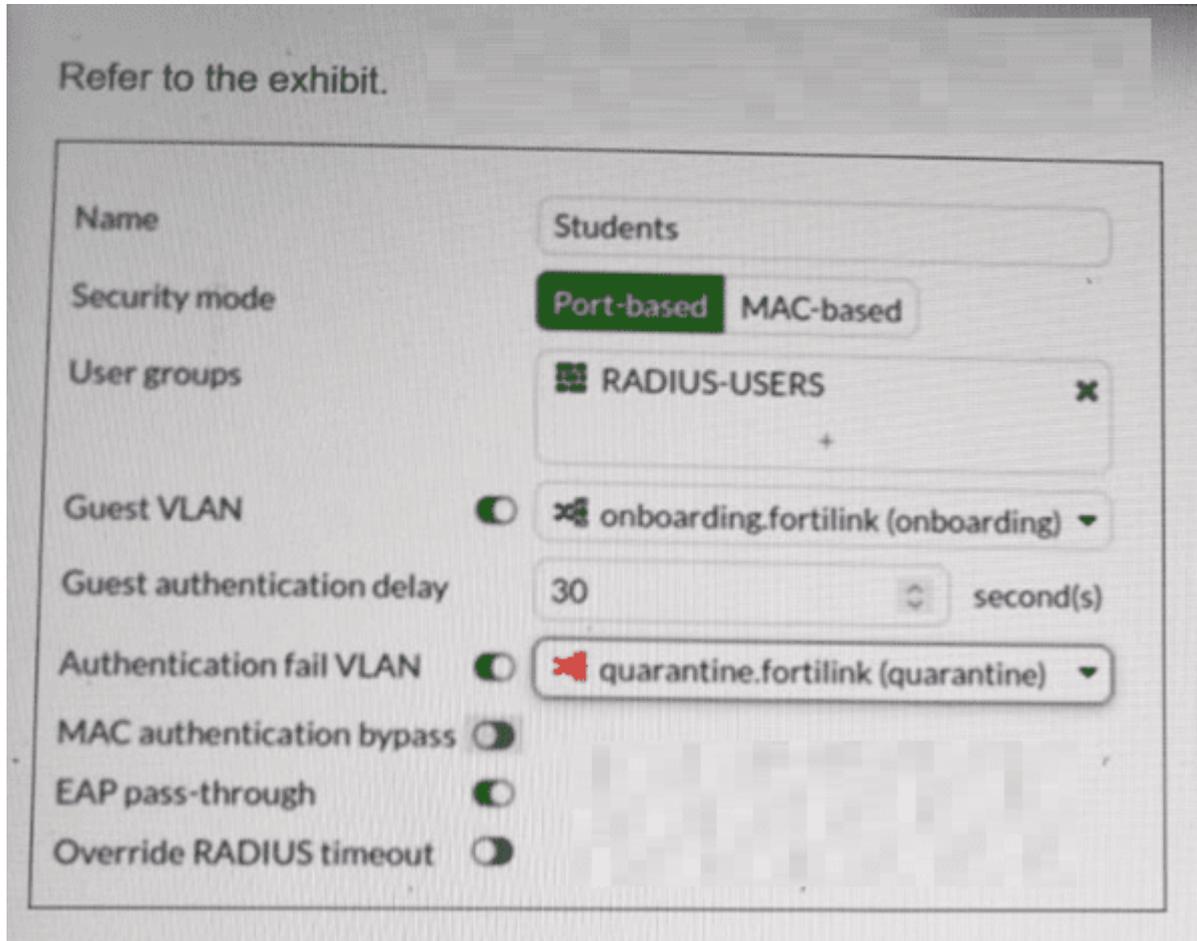
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QUESTIONS & ANSWERS
DEMO VERSION
(LIMITED CONTENT)

Question 1

Question Type: MultipleChoice

Refer to the exhibit.



FortiSwitch 802.1X port security configuration is shown. A user connects their laptop to the port and attempts to authenticate using 802.1X, but enters the wrong credentials multiple times. What will the result to the device be? (Choose one answer)

Options:

- A- The device will be placed into the VLAN quarantine.
- B- The port will shut down for security reasons.
- C- The device will be placed into the VLAN onboarding.
- D- The device will be assigned to the default management VLAN.

Answer:

A

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, 802.1X port security allows administrators to define specific actions based on the outcome of an authentication attempt. The configuration exhibit shows a security policy named 'Students' with two specialized VLAN assignments enabled: a Guest VLAN and an Authentication fail VLAN.

In FortiSwitchOS 7.6, these two settings serve distinct purposes based on the client's behavior:

Guest VLAN (Option C): This is used when a connected device does not have an 802.1X supplicant (software) or does not respond to EAP (Extensible Authentication Protocol) requests within the specified 'Guest authentication delay'. In this scenario, the device is moved to the 'onboarding' VLAN to allow for basic network access or software downloads.

Authentication fail VLAN (Option A): This is triggered specifically when a device attempts to authenticate via 802.1X but the authentication server (RADIUS) returns an Access-Reject message, typically due to incorrect credentials.

As stated in the scenario, the user attempts to authenticate but enters the wrong credentials. According to the policy shown in the exhibit, the Authentication fail VLAN is enabled and set to 'quarantine.fortilink (quarantine)'. Therefore, the FortiSwitch will logically move the port's traffic into the quarantine VLAN, isolating the user from the production network due to the failed login attempt. Option B is incorrect as there is no 'shutdown' action configured, and Option D refers to a default state that is overridden by the explicit failure policy.

Question 2

Question Type: Multiple Choice

What can an administrator do to maintain the existing standalone FortiSwitch configuration while changing the management mode to FortiLink?

Options:

- A- Use a migration tool based on python script to convert the configuration
- B- Enable the Forti-link setting on FortiSwitch before the authorization process
- C- FortiGate will automatically save the existing FortiSwitch configuration during the Forti-link management process.
- D- Register FortiSwitch to FortiSwitch Cloud to save a copy before managing by Forti-Gate.

Answer:

A

Explanation:

'The tool is a Python script that converts the supported settings in a FortiSwitch standalone configuration file to the equivalent FortiOS settings for a managed switch.' Reference: FortiSwitch 7.6 Study Guide, page 349

Question 3

Question Type: MultipleChoice

(Full question statement start from here)

When you change FortiSwitch management mode from standalone to managed, what happens to the existing standalone configuration? (Choose one answer)

Options:

- A- FortiSwitch registers to FortiSwitch Cloud to save a copy before managing with FortiGate.
- B- FortiSwitch merges the existing standalone configuration with the default FortiLink configuration.
- C- FortiSwitch saves the standalone configuration and changes to the default FortiLink configuration.
- D- FortiGate automatically saves the existing FortiSwitch configuration during the FortiLink management process.

Answer:

C

Explanation:

When a FortiSwitch is converted from standalone (local) management mode to FortiGate-managed mode using FortiLink, FortiSwitchOS follows a well-defined and protective transition process. According to the FortiSwitchOS 7.6 Administrator Guide, the switch does not merge its existing standalone configuration with FortiLink-managed settings, nor does FortiGate import or preserve the active configuration for reuse.

Instead, when the management mode change occurs, the FortiSwitch saves the current standalone configuration internally and then resets its operational configuration to the default FortiLink configuration. This default configuration is required so the switch can correctly establish FortiLink control-plane communication with the FortiGate, including CAPWAP-based management, VLAN 4094 usage, and dynamic policy provisioning.

Once the FortiSwitch is under FortiGate management, all configuration is controlled centrally by the FortiGate, including VLANs, port policies, security features, and firmware management. The previously

saved standalone configuration is retained only as a backup reference on the switch and is not actively used unless the switch is later reverted back to standalone mode.

This behavior ensures configuration consistency, prevents conflicts between local and centralized policies, and aligns the switch with the FortiGate-centric Security Fabric architecture. It also avoids unpredictable results that could occur if legacy standalone settings were merged with FortiLink-managed profiles.

The other options are incorrect because FortiSwitch does not register with FortiSwitch Cloud automatically, does not merge configurations, and FortiGate does not back up the standalone configuration during onboarding.

Therefore, the correct and fully documented answer is C. FortiSwitch saves the standalone configuration and changes to the default FortiLink configuration.

Question 4

Question Type: MultipleChoice

You need to deploy routing on a standalone FortiSwitch and want to maximize routing performance. Which type of routing is best for this deployment? (Choose one answer)

Options:

- A- Hardware-based routing because it relies on ASIC for faster performance
- B- Software-based routing because it bypasses the CPU to increase routing speed
- C- Hardware-based routing because the routing is performed directly by the kernel
- D- Software-based routing because it is preferred for high-speed backbone networks

Answer:

A

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6.1 Administration Guide--Standalone Mode, FortiSwitch units support two primary methods for processing Layer 3 traffic: software-based routing and hardware-based routing. To maximize performance, the documentation specifies that hardware-based routing (Option A) is the superior choice for high-speed environments.

The primary technical reason for this performance advantage is the use of Application-Specific Integrated Circuits (ASICs). In hardware-based routing, the routing table and forwarding information are programmed directly into the switch's specialized hardware silicon. This allows the FortiSwitch to

perform packet lookups and forwarding decisions at 'wire speed,' which refers to the full throughput capacity of the physical ports. By offloading these tasks to the ASIC, the switch minimizes latency and prevents the performance bottlenecks associated with general-purpose CPU processing.

In contrast, software-based routing (Options B and D) requires the main system CPU and kernel to process every packet, which is significantly slower and can lead to high CPU utilization during heavy traffic loads. Option C is factually incorrect because hardware-based routing specifically avoids the kernel's software path to increase speed. Therefore, for a deployment focused on maximizing routing performance, especially in a backbone or high-density branch environment, utilizing the ASIC-driven hardware forwarding path is the recommended approach in FortiSwitchOS 7.6.

Question 5

Question Type: MultipleChoice

Which LLDP-MED Type-Length-Values does FortiSwitch collect from endpoints to track network devices and determine their characteristics?

Options:

- A- Network policy
- B- Power management
- C- Location
- D- Inventory management

Answer:

D

Explanation:

While FortiSwitch can collect all the listed LLDP-MED TLVs (Network Policy, Power Management, Location, and Inventory Management), the primary focus for tracking and identifying network devices is on the Inventory Management TLV.

This TLV carries critical details such as:

Manufacturer

Model

Hardware/Firmware versions

Serial/Asset numbers

This information provides a granular understanding of the devices on your network.

Question 6

Question Type: MultipleChoice

Exhibit.

RoutingMonitor

Selected	Queued	Rejected	FIB	HW Table	Source	Destination	Next Hop
--	--	--	--	Available	Static	0.0.0.0/220.0	S> 0.0.0.0/220.0 via 10
✓	--	--	✓	Available	OSPF	0.0.0.0/110/10	O> 0.0.0.0/110/10 vi
✓	--	--	✓	Available	OSPF	1.1.1.1/32/110/110	O> 1.1.1.1/32/110/110
✓	--	--	✓	Available	BGP	2.2.2.0/24/20.0	B> 2.2.2.0/24/20.0 via
--	--	--	--	Available	OSPF	10.0.100.0/30/110/10	O 10.0.100.0/30/110/10
✓	--	--	✓	Available	Connected	10.0.100.0/30	C> 10.0.100.0/30 is dire
✓	--	--	✓	Available	Connected	10.9.0.0/20	C> 10.9.0.0/20 is directi
✓	--	--	✓	Available	Static	172.25.181.0/24/10.0	S> 172.25.181.0/24/10

Two routes are not installed in the forwarding information base (FIB) as shown in the exhibit. Which two statements about these two route entries are true? (Choose two.)

Options:

- A- These two routes have a higher administrative distance value available to the destination networks.
- B- These two routes will become primary, if the best routes are removed.
- C- These two routes will be used as load-balancing routes.
- D- These two routes are available in the hardware routing table.

Answer:

A, B

Explanation:

From the exhibit and the details given about the routes not installed in the FIB:

These two routes have a higher administrative distance value available to the destination networks (Option A): Administrative distance is a measure used by routers to select the best path when there are two or more different routes to the same destination from two different routing protocols. A higher administrative distance means that the route is considered less trustworthy, thus not selected for the FIB unless the more preferred routes fail.

These two routes will become primary, if the best routes are removed (Option B): In routing, if the currently installed routes (which are considered the best due to reasons like lower administrative distance) are removed or become unavailable, the next best routes based on administrative distance will be used. This behavior ensures redundancy and maintains network connectivity in diverse scenarios.

This approach is aligned with standard routing protocol behavior as documented in networking protocols and Fortinet's routing mechanisms which prioritize routes based on administrative distance and other metrics to maintain efficient and reliable network routing.

Question 7

Question Type: MultipleChoice

Which statement best describes a benefit of using MAC, IP address, or protocol-based VLAN assignments on FortiSwitch? (Choose one answer)

Options:

- A- It disables 802.1X authentication while preserving user access control.1
- B- It requires devices to authenticate through a RADIUS server before VLAN tagging.
- C- It assigns ports to VLANs regardless of device type or traffic.
- D- It offers dynamic segmentation benefits similar to 802.1X authentication.2

Answer:

D

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, MAC-based, IP-based, and protocol-based VLAN assignments are methods of dynamic VLAN assignment. These features allow the switch to categorize incoming traffic and assign it to a specific VLAN based on the packet's attributes rather than just the physical port it is connected to.3

The primary benefit of these methods is that they offer dynamic segmentation benefits similar to 802.1X authentication (Option D). In a modern network, devices with different security requirements

(such as IoT devices, printers, and workstations) often connect to the same physical switch ports. 802.1X is the 'gold standard' for dynamic segmentation but requires a supplicant on the client device.⁴ For devices that do not support 802.1X, MAC or protocol-based assignments provide a similar result: they ensure the device is automatically placed into its designated secure segment (VLAN) the moment it is identified by the switch.

MAC-based: Assigns a VLAN based on the source MAC address.

IP-based: Assigns a VLAN based on the source IP address or subnet.

Protocol-based: Assigns a VLAN based on the Ethernet type (e.g., IPv4, IPv6, or AppleTalk).

Option A is incorrect because these features complement rather than 'disable' 802.1X. Option B is incorrect because these specific assignment types can be configured locally on the switch without a RADIUS server. Option C is the opposite of how these features work, as they explicitly look at the device type or traffic to make an assignment.

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