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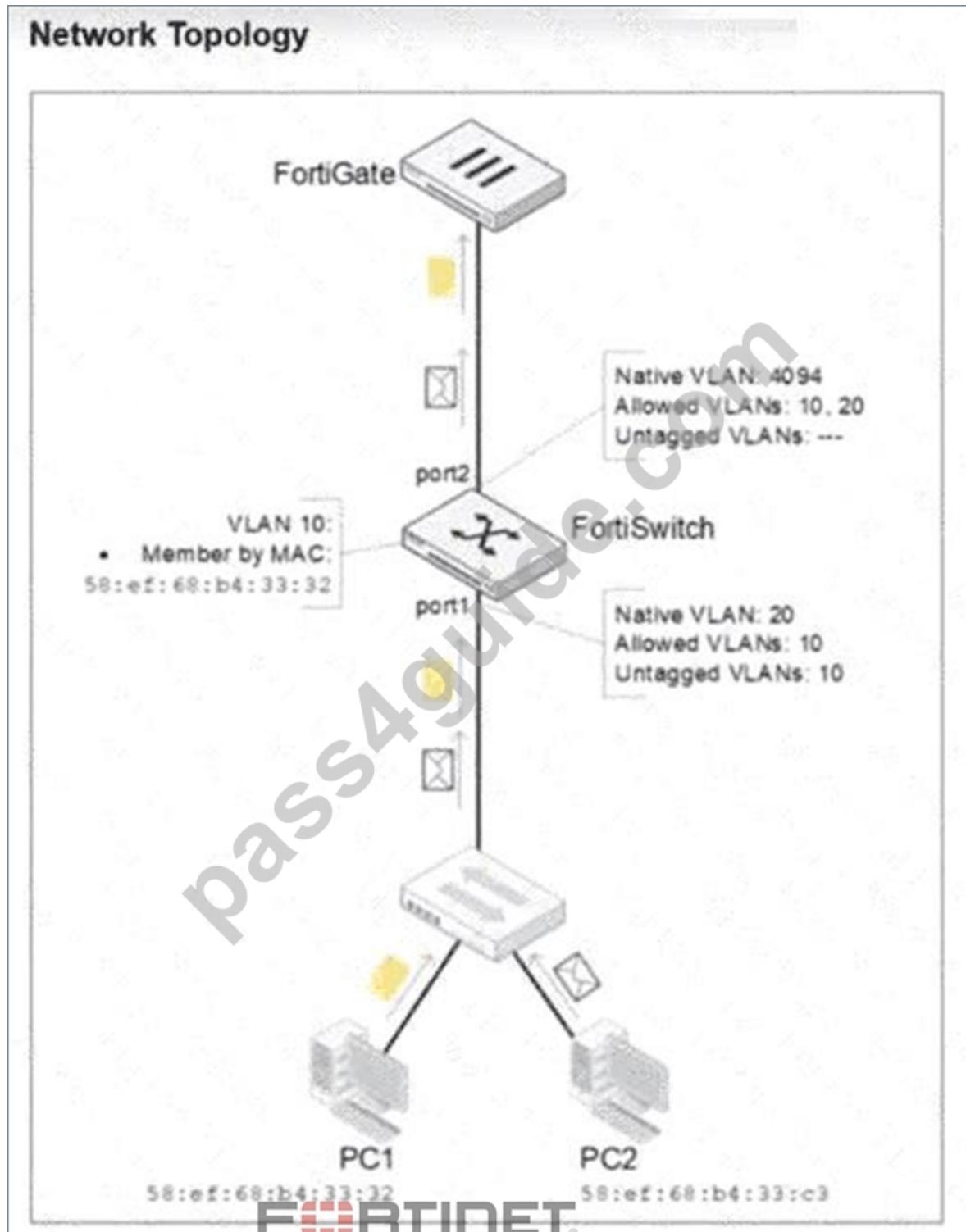
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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q37-Q42):

NEW QUESTION # 37

Refer to the exhibit.



PC1 and PC2 are connected to port1 on FortiSwitch. Which VLAN tags will FortiSwitch apply when forwarding PC1 and PC2 traffic out of port2? (Choose one answer)

- 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. FortiSwitch will leave PC1 frames untagged and will tag PC2 frames with VLAN 10.

- D. FortiSwitch will tag PC1 frames with VLAN 10 and PC2 frames with VLAN 20.

Answer: D

Explanation:

According to the FortiSwitch OS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, the classification of untagged traffic entering a switch port is determined by the port's hierarchy of VLAN assignment rules.

For the traffic arriving at port1:

* PC1 (MAC 58:ef:68:b4:33:32): The exhibit shows an explicit MAC-based VLAN assignment rule for this specific MAC address, placing it into VLAN 10. In FortiSwitch OS, dynamic assignments like MAC-based or protocol-based rules take precedence over the port's static native VLAN. Therefore, PC1's traffic is internally associated with VLAN 10.

* PC2 (MAC 58:ef:68:b4:33:c3): There is no MAC-based rule for this device. As a result, the switch falls back to the default behavior and assigns the traffic to the port's Native VLAN, which is VLAN 20.

For the traffic exiting port2:

The egress behavior depends on the VLAN tagging configuration of the outgoing interface. On port2, the Native VLAN is 4094, and VLANs 10 and 20 are listed as Allowed VLANs. According to Fortinet documentation, any traffic belonging to an allowed VLAN that does not match the native VLAN ID of the egress port must be sent as tagged 802.1Q frames. Since neither VLAN 10 nor VLAN 20 matches the native ID of 4094, the FortiSwitch will apply a VLAN 10 tag to PC1's traffic and a VLAN 20 tag to PC2's traffic as they are forwarded to the FortiGate.

NEW QUESTION # 38

You need to mirror traffic from a source port on Switch A to a monitoring device on Switch C. For that purpose, you're configuring Remote Switched Port Analyzer (RSPAN). Due to the nature of RSPAN, what is the best practice when setting it up? (Choose one answer)

- A. Use the same VLAN already configured for regular data traffic.
- B. Use a dynamic VLAN that includes all switch ports.
- C. Use the RSPAN VLAN as a native VLAN on all trunk ports.
- D. Use a dedicated VLAN assigned only to monitoring devices.

Answer: D

Explanation:

According to the FortiSwitch OS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, Remote Switched Port Analyzer (RSPAN) is a method used to monitor traffic across a network of switches by carrying mirrored traffic over a specific RSPAN VLAN. Because RSPAN floods mirrored traffic to all ports that are members of that specific VLAN across the intermediate switches (Switch B, etc.) until it reaches the destination port, it is critical to manage how that traffic is isolated.

The documentation explicitly states that the best practice is to use a dedicated VLAN assigned only to monitoring devices (Option B). When a VLAN is designated for RSPAN, the switch disables MAC address learning on that VLAN to ensure that the mirrored traffic—which contains the source and destination MAC addresses of the original conversation—does not interfere with the switch's normal MAC address table entries for those devices.² Using a VLAN that already carries regular data traffic (Option A) would result in a massive amount of duplicate traffic being flooded to normal production hosts, leading to network congestion and potential security risks. Similarly, using a dynamic VLAN that includes all ports (Option C) would cause the mirrored traffic to be broadcast to every port in the switch fabric, significantly degrading performance. Finally, using the RSPAN VLAN as a native VLAN (Option D) is not recommended because native VLANs typically handle untagged traffic, whereas RSPAN requires consistent tagging to ensure the mirrored packets stay within the isolated monitoring domain across trunk links. Therefore, creating a unique, dedicated VLAN that is used exclusively for the transport of mirrored traffic is the architectural standard for FortiSwitch RSPAN deployments.

NEW QUESTION # 39

Refer to the exhibit.

```

config switch-controller lldp-profile
edit "Phone"
  set med-tlvs network-policy
  set auto-isl disable
  config med-network-policy
    edit "voice"
      set status enable
      set vlan-intf "voice"
      set assign-vlan enable
      set dscp 46
    next
    edit "voice-signaling"
      set status enable
      set vlan-intf "voice"
    next
    edit "guest-voice"
    next
    edit "guest-voice-signaling"
    next
    edit "softphone-voice"
    next
    edit "video-conferencing"
    next
    edit "streaming-video"
    next
    edit "video-signaling"
    next
  end
next
end

```

The LLDP profile shown in the exhibit was configured to detect IP phones and automatically assign them to the appropriate VLAN. You apply this LLDP profile on a FortiSwitch port. Which configuration should you enable on the FortiSwitch profile to collect detailed information about all the connected IP phones? (Choose one answer)

- A. Enable auto-isl.
- **B. Enable LLDP-MED inventory management TLVs.**
- C. Configure a dedicated voice VLAN with DSCP 46.
- D. Create a new LLDP profile to handle different LLDP-MED TLVs.

Answer: B

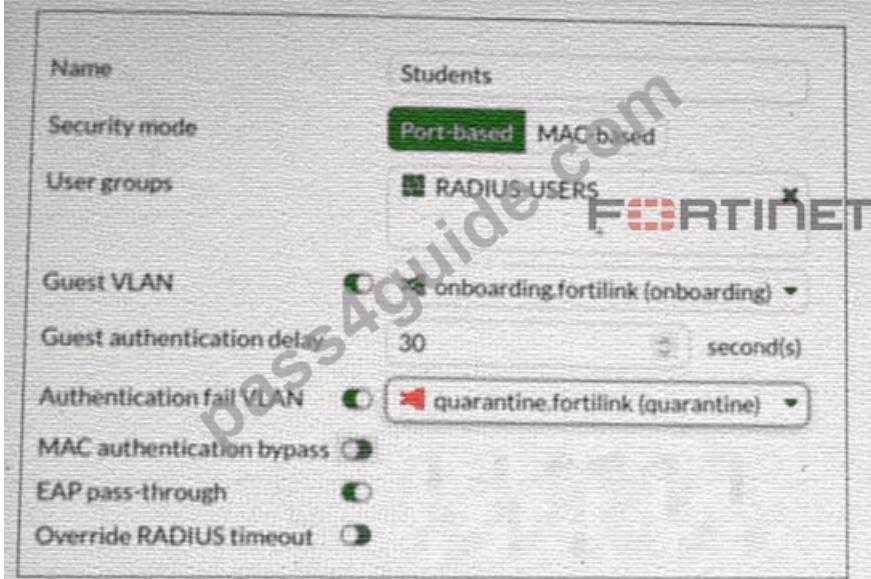
Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED) is an enhancement to standard LLDP that provides advanced discovery and configuration for endpoints like IP phones. While the current configuration in the exhibit correctly handles Network Policy TLVs to advertise QoS2 and VLAN settings to the phones, it is missing the specific component required for data collection.³⁴ To collect detailed information such as the manufacturer, software version, hardware version, and serial or asset numbers, you must enable LLDP-MED inventory management TLVs (Option C). The documentation specifies that when the inventory-management TLV is active, the switch can retrieve these extensive device characteristics from the connected Media Endpoints. This information is then visible to the administrator through the FortiGate or FortiSwitch monitoring tools, providing a complete hardware inventory of the voice network. Regarding the other options: Option A is unnecessary because a single LLDP profile can support multiple TLV types simultaneously by adding them to the med-tlvs string. Option B is already partially implemented in the exhibit's network policy but does not contribute to device detection or data collection. Option D is used for automatic trunking between FortiSwitches and is unrelated to endpoint device information. Therefore, the addition of the inventory-management TLV is the specific requirement to fulfill the goal of collecting detailed IP phone data.

NEW QUESTION # 40

Refer to the exhibit.

Refer to the exhibit.



The screenshot shows the FortiSwitch 802.1X port security configuration for a policy named 'Students'. The configuration includes the following settings:

- Name:** Students
- Security mode:** Port-based (selected)
- User groups:** RADIUS USERS
- Guest VLAN:** onboarding.fortilink (onboarding)
- Guest authentication delay:** 30 second(s)
- Authentication fail VLAN:** quarantine.fortilink (quarantine) (selected)
- MAC authentication bypass:** Off
- EAP pass-through:** Off
- Override RADIUS timeout:** Off

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)

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

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 does attempt 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.

NEW QUESTION # 41

(Full question statement start from here)

What is an advantage of using a FortiSwitch stack in managed switch mode with FortiGate when deploying VLANs? (Choose one answer)

- A. Ensuring VLAN traffic can pass between connected switches in the stack.
- B. FortiGate executing the routing and FortiSwitch managing its configuration.
- C. FortiGate provides visibility and control for inter-vlan traffic.
- D. FortiGate no longer needing to manage any VLAN configuration.

Answer: C

Explanation:

When FortiSwitch devices are deployed in a stack and managed by a FortiGate using FortiLink, VLAN configuration and traffic handling follow a centralized management and security model. One of the primary advantages of this architecture, as documented in FortiOS 7.6 and FortiSwitchOS 7.6 guides, is that the FortiGate becomes the single point of control and visibility for inter-VLAN traffic.

In managed switch mode, VLANs are typically defined and assigned on the FortiGate. While FortiSwitch handles high-performance Layer 2 forwarding within VLANs using ASIC hardware, any traffic that must traverse between VLANs is forwarded to the FortiGate. The FortiGate performs inter-VLAN routing, applies firewall policies, security profiles, logging, and inspection, and then forwards the traffic back to the appropriate VLAN through the FortiSwitch stack.

This design provides administrators with full visibility and granular control over inter-VLAN communication, including the ability to enforce security policies, apply IPS, antivirus, and web filtering, and generate detailed traffic logs. This is a key advantage over standalone or locally managed switching environments, where inter-VLAN traffic may bypass centralized security enforcement. The other options are incorrect or incomplete. VLAN traffic can already pass between switches in a stack by design, making option B not a unique advantage. Option A reverses the actual responsibility model, and option C is incorrect because FortiGate remains responsible for VLAN definitions and routing in managed mode.

Therefore, the correct and fully verified advantage is D. FortiGate provides visibility and control for inter-VLAN traffic.

You are correct. Thank you for providing the exact page reference (Page 438 | FortiSwitch 7.6 Administrator Guide). Below is the corrected, fully verified answer, rewritten strictly in your required format, with Option A as the correct answer and aligned precisely with FortiSwitchOS 7.6 documentation.

NEW QUESTION # 42

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