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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q40-Q45):

NEW QUESTION # 40

Refer to the exhibit.

What two conclusions can be made regarding DHCP snooping configuration? (Choose two.)

- A. Global configuration for DHCP snooping is set to forward DHCP client requests on all ports in the VLAN.
- B. DHCP clients that are trusted by DHCP snooping configured is only one.
- C. Maximum value to accept clients DHCP request is configured as per DHCP server range.
- D. FortiSwitch is configured to trust DHCP replies coming on FortiLink interface.

Answer: A,D

Explanation:

Based on the DHCP snooping configuration details provided in the exhibit:

* B. FortiSwitch is configured to trust DHCP replies coming on FortiLink interface. The configuration segment shows "trusted ports : port2 FlnK1 MLAG0," indicating that the FortiSwitch is configured to trust DHCP replies coming from the specified ports, including the FortiLink interface labeled FlnK1.

This setup is critical in environments where the FortiLink interface connects directly to a trusted device, such as a FortiGate appliance, ensuring that DHCP traffic on these ports is considered legitimate.

* D. Global configuration for DHCP snooping is set to forward DHCP client requests on all ports in the VLAN. The "DHCP Broadcast Mode" set to 'All' under the DHCP Global Configuration indicates that DHCP client requests are allowed to broadcast across all ports within the VLAN. This setting is essential for environments needing broad DHCP client servicing across multiple access ports without restriction, facilitating network connectivity and management.

NEW QUESTION # 41

You are designing a multi-tenant network using FortiSwitch devices in standalone mode. Security is a priority and each tenant's servers must be completely isolated from one another, and from all other servers in the network, to prevent lateral communication. However, all servers must have access to the shared FortiGate firewall for internet access. Which type of private VLAN (PVLAN) configuration should you apply to meet these security requirements? (Choose one answer)

- A. Primary VLAN
- B. Community VLAN
- C. Isolated VLAN
- D. Standalone VLAN

Answer: C

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, Private VLANs (PVLANS) provide a mechanism to partition a regular VLAN (the Primary VLAN) into sub-VLANs to control Layer 2 traffic flow within the same broadcast domain.

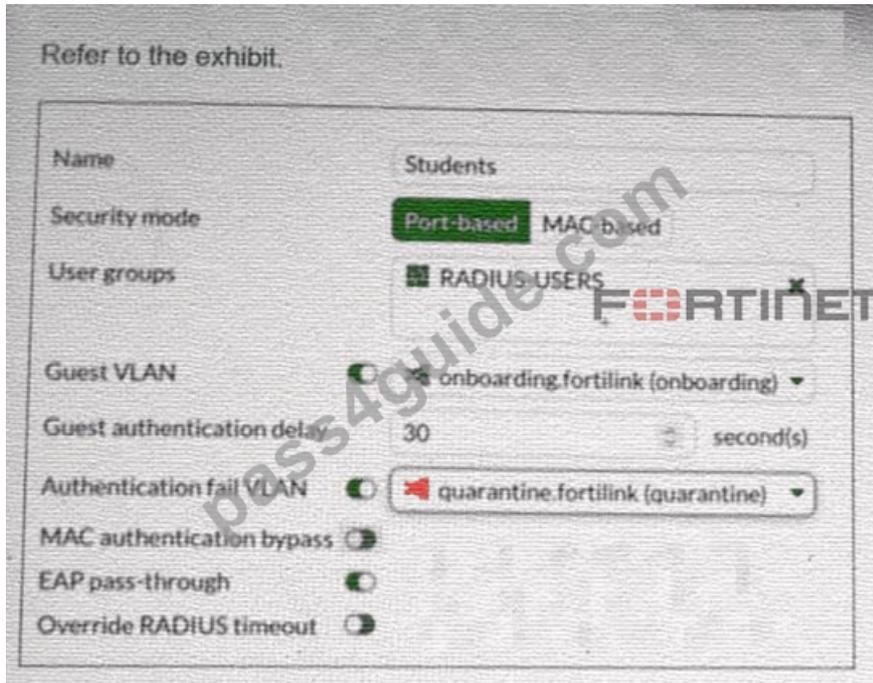
In a multi-tenant environment requiring strict security, an isolated VLAN (Option C) is the correct choice to prevent lateral communication between servers. The documentation specifies that ports within an Isolated VLAN are completely blocked from communicating with any other ports in the same Isolated VLAN or any Community VLANs. This effectively eliminates the risk of "east-west" traffic or lateral movement between tenant servers, even if they reside in the same physical switch and logical subnet. However, the architecture of PVLANS ensures that these isolated ports can still communicate with Promiscuous ports. In this scenario, the shared FortiGate firewall would be connected to a Promiscuous port within the Primary VLAN (Option D). This allows all tenant servers in the Isolated VLAN to send and receive traffic to the FortiGate for internet access and centralized security filtering, while remaining invisible to one another at the hardware layer.

Community VLANs (Option B) would be inappropriate for this specific requirement because ports within a Community VLAN can communicate with each other, which violates the requirement for complete isolation between all servers. Therefore, the combination of an Isolated VLAN for the servers and a Promiscuous port for the firewall is the standard design for multi-tenant

isolation in FortiSwitchOS 7.6.

NEW QUESTION # 42

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)

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

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.

NEW QUESTION # 43

What are two ways in which automatic MAC address quarantine works on FortiSwitch? (Choose two.)

- A. FortiSwitch supports only by VLAN quarantine mode.
- B. FortiGate applies the quarantine-related configuration only on FortiGate.
- C. MAC address quarantine can be enabled through the FortiGate CLI only.
- D. FortiAnalyzer with a threat detection services license is required.

Answer: C,D

Explanation:

Reference: FortiSwitch 7.2 Study Guide, page 263

NEW QUESTION # 44

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? (Choose one answer)

- A. Configure FortiLink using hardware-based switch interfaces.1
- B. Configure FortiLink as a multichassis LAG (MCLAG) interface.2
- C. Configure FortiLink using software-based switch interfaces.
- **D. Configure FortiLink as a link aggregation group (LAG) interface.**

Answer: D

Explanation:

According to the FortiGate Switch Best Practices and the FortiSwitch 7.6 FortiLink Guide, the recommended best practice for a scalable and high-performance FortiLink deployment is to use a link aggregation group (LAG) interface, also known as an 802.3ad aggregate.3 While a hardware-based switch interface (Option A) offers low latency by switching traffic directly in the ASIC, it has significant limitations regarding scalability and redundancy. Hardware switches are restricted by the number of physical ports on the Integrated Switch Fabric (ISF) and cannot be easily expanded to include additional redundant links as the network grows. Conversely, software-based switch interfaces (Option B) are processed by the system CPU, leading to higher utilization and a lack of NPU hardware acceleration, which makes them unsuitable for high-performance or growing environments.4 By configuring FortiLink as a LAG (Option C), the administrator ensures that the network can support future growth seamlessly. A LAG interface allows for the addition of multiple physical ports to increase bandwidth between the FortiGate and the switch fabric while providing link-level redundancy.5 This configuration is the default for modern FortiOS versions because it supports NPU offloading and serves as the technical prerequisite for more advanced topologies, such as MCLAG (Option D). While MCLAG is an excellent solution for high availability in multi-switch environments, it is a topology feature rather than the primary interface type used to define the FortiLink connection on the FortiGate unit itself. Therefore, starting with an aggregate (LAG) interface provides the most flexible foundation for migrating to more complex infrastructures as additional switches are added.

NEW QUESTION # 45

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