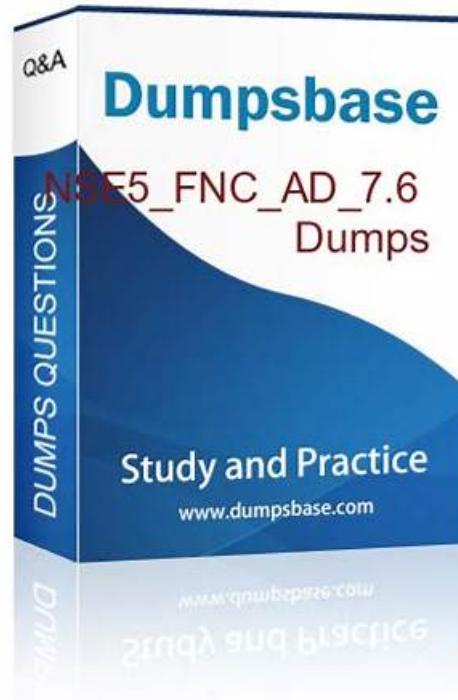


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Fortinet NSE5_FSW_AD-7.6 Exam Syllabus Topics:

Topic	Details
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Topic 1	<ul style="list-style-type: none"> • 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 2	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • Monitoring and troubleshooting: This domain covers packet capture methods, FortiLink troubleshooting, and diagnostic tools used to monitor traffic and resolve network issues.

Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q72-Q77):

NEW QUESTION # 72

Which interfaces on FortiSwitch send out FortiLink discovery frames by default in order to detect a FortiGate with an enabled FortiLink interface?

- A. All ports have auto-discovery enabled by default.
- B. No ports are enabled by default for auto-discovery. This must be configured under config switch interface.
- C. The ports with auto-discovery enabled by default are dependent upon the FortiSwitch model.
- D. The last four switch ports on FortiSwitch have auto-discovery enabled by default.

Answer: A

Explanation:

* Fortinet FortiLink Protocol: The FortiLink protocol is Fortinet's proprietary mechanism for managing FortiSwitch units from a FortiGate firewall. It simplifies configuration and security policy enforcement across the connected network devices.

* Auto-Discovery: FortiLink's auto-discovery feature means that by default, all ports on a FortiSwitch will actively send out discovery frames. This allows them to locate a FortiGate device that has a FortiLink interface enabled, streamlining the device management process.

* No Configuration Needed: You don't have to manually configure individual ports for FortiLink discovery on FortiSwitch devices.

References

* FortiSwitchOS FortiLink Guide (FortiSwitch Devices Managed by FortiOS 7.2): Refer to pages 13 and 14 for details on zero-touch management and FortiLink configuration. [https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/27f63c72-b083-11ec-9fd1-fa163e15d75b/FortiSwitchOS-7.2.0-FortiLink_Guide%E2%80%94FortiSwitch_Devices_Managed_by_FortiOS_7.2.pdf]

NEW QUESTION # 73

(Full question statement start from here)

Refer to the exhibits.

Network Topology

FortiSwitch Ports

Port	Trunk	Mode	Mode	Port Policy	Enabled Features	Native VLAN	Allowed VLANs	Allowed VLANs	DHCP Snooping
Access-1									
port1	port1		Static		<ul style="list-style-type: none"> Edge Port Spanning Tree Protocol 	Student	quarantine.fortilink (quarantined)	Untrusted	Untrusted
port2	port2		Static		Core-1 [FS24VM7230]	Core-1[FS24VM7255000127]		Trusted	Trusted
port3	port3		Static		<ul style="list-style-type: none"> Edge Port .default.e-tlink (default) 	.default.fortilink	quarantine.fortilink (quarantined)	Untrusted	Untrusted

You enable Dynamic Host Configuration Protocol (DHCP) snooping on the VLAN, Student. The Linux- Client VM sends DHCP requests, and tcpdump confirms the broadcasts. However, the Linux-Server VM, acting as a DHCP server, receives no DHCP traffic. What is the most likely cause of this intra-VLAN traffic being blocked? (Choose one answer)

- A. The Student VLAN must be configured as an allowed VLAN on port1.
- B. The DHCP requests are being sent on the wrong VLAN.
- **C. Port1 is configured as an untrusted port.**
- D. Port4 is not configured as a trusted port.

Answer: C

Explanation:

In FortiSwitchOS 7.6, DHCP snooping is a Layer 2 security feature that validates DHCP traffic and protects the LAN from rogue DHCP servers. The feature enforces a trust model on switch ports: ports connected toward legitimate DHCP server infrastructure must be marked trusted, while edge/access ports facing clients are typically untrusted. When DHCP snooping is enabled on a VLAN (in this case, Student), FortiSwitch inspects DHCP messages and applies filtering rules based on port trust status.

From the exhibit, both port1 (connected to the Linux-Server DHCP server) and port4 (connected to the Linux- Client) show DHCP Snooping: Untrusted. In this configuration, the switch treats the DHCP server-facing port as untrusted and, by design, will block DHCP server-originated messages (such as DHCP OFFER

/DHCPACK) arriving on that interface. This prevents the DHCP handshake from completing and effectively stops DHCP from functioning across that VLAN segment. Operationally, this is commonly observed as "no DHCP traffic" at the server/application layer because the exchange cannot progress normally when the server side is not trusted.

Option C is incorrect because the client-facing port is expected to be untrusted. Options A and D do not align with the exhibit: the ports are already placed in the Student VLAN as native VLAN, so the primary issue is the DHCP snooping trust role.

Therefore, the most likely cause is that port1 is configured as an untrusted port (it must be trusted for a DHCP server), making B the correct answer.

NEW QUESTION # 74

Which statement about the IGMP snooping querier when enabled on a VLAN is true?

- A. The setting can only be enabled using the FortiSwitch CLI.
- **B. Active multicast receiver entries are aging on each IGMP query sent on the VLAN**
- C. All other indirectly connected switches will be unable to get IGMP multicast traffic.

- D. IGMP reports on the VLAN are forwarded to all switch ports.

Answer: B

Explanation:

Active multicast receiver entries are aging on each IGMP query sent on the VLAN (A): When IGMP snooping querier is enabled on a VLAN, it functions to manage multicast traffic within the VLAN by keeping track of multicast group memberships. The IGMP querier sends queries to determine which ports require the multicast traffic. The multicast receiver entries, which are entries that indicate which devices have requested the multicast data, age or time out based on these IGMP queries. Each query refreshes active connections but ages out entries that no longer respond, helping to ensure that multicast traffic is only sent to ports with active receivers.

NEW QUESTION # 75

Which statement about 802.1X security profiles using MAC-based authentication mode is true?

- A. FortiSwitch allows connectivity to all hosts connected to a port, if one host is authenticated.
- B. FortiSwitch must communicate with the RADIUS server to authenticate devices
- **C. FortiSwitch can grant each device a different access level based on the credentials provided**
- D. FortiSwitch performs faster when using this security mode on the ports.

Answer: C

Explanation:

Pag 232, FortiSwitch_7.2_Study_Guide-Online "However, if you want to authenticate each device behind a port, and optionally, grant each device a different access level based on the credentials provided, then MAC-based is required." According to the FortiSwitchOS 7.6 Administration Guide and the FortiLink Guide (FortiOS 7.6), FortiSwitch supports two primary modes for 802.1X authentication: port-based and MAC-based.

In 802.1X port-based authentication, once a single supplicant (user or device) successfully authenticates, the physical port is transitioned to an "authorized" state, allowing all traffic from any device connected to that port (e.g., through a hub or unmanaged switch) to pass through. This is summarized by Option D, which is incorrect for MAC-based mode.

In contrast, 802.1X MAC-based authentication (Option B) treats each device's MAC address as a distinct session. The switch maintains a table of authenticated MAC addresses for each port and applies security policies to each one individually. This granular approach allows the FortiSwitch to grant different access levels to different devices on the same physical port. For example, a laptop might be assigned to a corporate VLAN with a specific Dynamic Access Control List (DACL), while an IP phone on the same port is assigned to a Voice VLAN.

Furthermore, FortiSwitchOS 7.6 documentation specifies that MAC-based mode can support up to 20 devices per port. Each device must provide its own credentials (or be validated via MAC Authentication Bypass), enabling the switch to enforce specific security attributes—such as VLAN IDs, QoS marking, and ingress ACLs—tailored to each uniquely identified device. While the switch typically communicates with a RADIUS server (Option C) for these credentials, MAC-based mode's primary functional advantage is this individual session management and authorization flexibility.

NEW QUESTION # 76

(Full question statement start from here)

You are planning to deploy FortiSwitch devices on your network. Your goal is to simplify management and ensure integration with the Security Fabric. Which deployment approach should you choose? (Choose one answer)

- **A. Manage FortiSwitch on FortiGate using FortiLink.**
- B. Use the FortiSwitch-Manager device for centralized management.
- C. Manage FortiSwitch from FortiManager for large-scale enterprise deployments.
- D. Use FortiEdge Cloud for centralized management with advanced analytics.

Answer: A

Explanation:

Fortinet's recommended approach for simplified management and full Security Fabric integration is to manage FortiSwitch devices directly from a FortiGate using FortiLink. According to the FortiOS 7.6 and FortiSwitchOS 7.6 documentation, FortiLink enables FortiGate to act as the centralized controller for all connected FortiSwitch units, providing seamless integration between switching, routing, and security services.

When FortiSwitch is managed through FortiGate with FortiLink, the switches become native members of the Security Fabric. This

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