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Fortinet NSE5_FSW_AD-7.6 Exam Syllabus Topics:

Section	Objectives
Layer 2 control and security	- Use port security options on FortiSwitch - Use ACLs, security profiles, and VLAN security mechanisms on FortiSwitch - Use filtering and antispoofing techniques on FortiSwitch
Deployment and management	- Deploy and configure FortiSwitch in a multi-tenancy environment - Configure and provision FortiSwitch - Deploy FortiSwitch supported deployment topologies
Monitoring and troubleshooting	- Use tools to view and extract network information from FortiSwitch - Interpret system logs, monitor port statistics, and diagnose connectivity issues - Troubleshoot FortiLink issues - Use packet capturing methods to monitor and troubleshoot traffic issues
FortiSwitch concepts	- Configure STP to prevent network loops - Configure VLANs using FortiSwitch - Configure the ports required for stack deployment - Use QoS and LLDP-MED on FortiSwitch - Configure switching and routing on FortiSwitch - Configure switch ports, split port, and available transceivers

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analysis of finishing, meet the demand of the students as much as possible, at the same time have a professional staff to check and review NSE5_FSW_AD-7.6 practice materials, made the learning of the students enjoy the information of high quality. Due to the variety of examinations, the NSE5_FSW_AD-7.6 Study Materials are also summarized for different kinds of learning materials, so that students can find the information on NSE5_FSW_AD-7.6 guide torrent they need quickly.

Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q33-Q38):

NEW QUESTION # 33

Refer to the diagnostic output:

```
# diagnose switch-controller switch-info mac-table
Vdom: root
S224EPTF19005928 0 :
MAC address Interface vlan
=====
04:d5:90:39:73:3d internal 4092
04:d5:90:3e:e2:88 port1 4089
00:50:56:96:e3:fc GVM1V0000141680 4089
04:d5:90:39:73:3d internal 4094
00:50:56:96:e3:fc GVM1V0000141680 4094
```

Two entries in the exhibit show that the same MAC address has been used in two different VLANs. Which MAC address is shown in the above output?

- A. It is a MAC address of FortiGate in HA configuration.
- B. It is a MAC address of FortiLink interface on FortiGate.
- **C. It is a MAC address of a switch that accepts multiple VLANs.**
- D. It is a MAC address of an upstream FortiSwitch.

Answer: C

Explanation:

The MAC address "00:50:56:96:e3:fc" appearing in two different VLANs (4089 and 4094) in the diagnostic output indicates it is a MAC address associated with a device that supports traffic from multiple VLANs.

Such a behavior is typical of network infrastructure devices like switches or routers, which are configured to allow traffic from various VLANs to pass through a single physical or logical interface. This is essential in network designs that utilize VLANs to segregate network traffic for different departments or use cases while using the same physical infrastructure.

References:

For more detailed information on MAC table diagnostics and VLAN configurations in FortiGate devices, refer to the official Fortinet documentation: [Fortinet Product Documentation](#).

NEW QUESTION # 34

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 MLAG (Option D). While MLAG 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 # 35

You are deploying a new FortiSwitch device in a branch office and you want it to be automatically detected and managed by FortiGate. Which FortiSwitch feature enables automatic detection during deployment?

(Choose one answer)

- A. Auto-discovery
- B. Zero-touch deployment
- C. FortiLink heartbeat
- **D. Link Layer Discovery Protocol (LLDP)**

Answer: D

Explanation:

According to the FortiOS 7.6 Study Guide and the FortiSwitch 7.6 FortiLink Guide, the automatic discovery and subsequent management of a FortiSwitch by a FortiGate controller is primarily facilitated by the Link Layer Discovery Protocol (LLDP). LLDP is an industry-standard, layer-2 protocol that allows network devices to advertise their identities and capabilities to neighbors on the same physical link.

When a factory-default FortiSwitch is connected to a FortiGate port (specifically one configured as a FortiLink interface), the switch automatically sends out LLDP advertisements. These advertisements include specific Organizationally Specific TLVs (Type-Length-Values) that identify the device as a FortiSwitch and provide its management MAC address and current state. The FortiGate "listens" for these LLDP frames; once it receives a frame from a compatible FortiSwitch, it automatically lists the switch in the Managed FortiSwitch inventory as a "discovered" device awaiting authorization.

While Zero-touch deployment (Option A) describes the overall goal of deploying a switch without manual CLI configuration, it is the underlying LLDP protocol that provides the technical mechanism for the initial detection. Once the switch is discovered via LLDP and authorized, the FortiGate uses a DHCP server on the FortiLink interface to assign an IP address to the switch and establishes a secure CAPWAP (Control and Provisioning of Wireless Access Points) tunnel for management. The FortiLink heartbeat (Option D) is a secondary mechanism used after the connection is established to monitor the health and status of the link, rather than for the initial detection of the device.

NEW QUESTION # 36

Which two are valid traffic processing actions that a FortiSwitch access control list (ACL) can apply to matching traffic? (Choose two answers)

- A. Assign traffic to a high-priority egress queue.
- **B. Redirect frames to another port.**
- C. Encrypt frames.
- **D. Drop frames.**

Answer: B,D

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the NSE 5 FortiSwitch Study Guide, Access Control Lists (ACLs) are used to provide granular control over the traffic entering or leaving a switch port.

ACLs function by defining classifiers (to match specific traffic based on criteria like MAC address, IP address, or VLAN ID) and then applying specific actions to that matched traffic.

The documentation explicitly categorizes ACL actions into three distinct groups:

* Traffic Processing: This category includes actions that dictate the physical handling of the frame. Valid actions listed in the official documents under this header include count (to track packet volume), drop (to block the traffic), redirect (to forward the frame to a

specific physical port or interface instead of its original destination), and mirror (to send a copy to a monitoring port).

* Quality of Service (QoS): This category focuses on traffic prioritization and bandwidth management. It includes actions such as rate limiting, remarking CoS/DSCP values, and setting the egress queue (e.g., assigning a packet to a specific queue number from 0 to 7).

* VLAN: This allows for modifications such as setting another VLAN tag on frames.

The question specifically asks for "traffic processing actions." Based on the 7.6 documentation, Redirect frames to another port (Option A) and Drop frames (Option D) are explicitly defined under the "Traffic Processing" action header. While "Assign traffic to a high-priority egress queue" (Option B) is a valid action an ACL can perform, it is technically categorized as a QoS action, not a traffic processing action. Encrypt frames (Option C) is not a supported ACL action on FortiSwitch hardware, as encryption is typically handled at higher layers or via dedicated MACsec configurations on specific models.

NEW QUESTION # 37

How does FortiSwitch perform actions on ingress and egress traffic using the access control list (ACL)?

- A. Only high-end FortiSwitch models support ACL.
- **B. FortiSwitch checks ACL policies only from top to bottom.**
- C. Classifiers enable matching traffic based only on the VLAN ID.
- D. ACL can be used only at the prelookup stage in the traffic processing pipeline.

Answer: B

Explanation:

In FortiSwitch, Access Control Lists (ACLs) are used to enforce security rules on both ingress and egress traffic:

* ACL Evaluation Order (D):

* Operational Function: FortiSwitch processes ACL entries from top to bottom, similar to how firewall rules are processed. The first match in the ACL determines the action taken on the packet, whether to allow or deny it, making the order of rules critical.

* Configuration Advice: Careful planning of the order of ACL rules is necessary to ensure that more specific rules precede more general ones to avoid unintentional access or blocks.

References: For a comprehensive guide on configuring ACLs in FortiSwitch, consult the FortiSwitch security settings documentation available on Fortinet Product Documentation

NEW QUESTION # 38

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