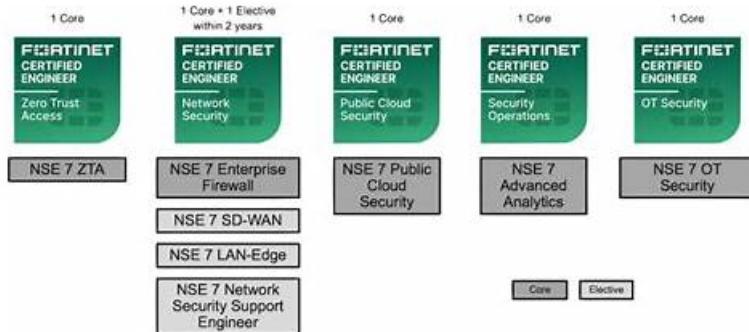


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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q105-Q110):

NEW QUESTION # 105

Refer to the exhibit.

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

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

Answer: B,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 F1InK1 MLAG0," indicating that the FortiSwitch is configured to trust DHCP replies coming from the specified ports, including the FortiLink interface labeled F1InK1.

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 # 106

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 # 107

Refer to the exhibits. An IP phone is connected to port1 of FortiSwitch Access-1. The IP phone tags its traffic with VLAN ID 20. On FortiGate, VLAN IP_Phone (VLAN ID 20) has been configured, and port1 of Access-1 is set with VLAN 20 as the native VLAN. However, the IP phone cannot reach the network. The exhibit shows the partial VLAN configuration and the port1 configuration on Access-1.

Which configuration change must you make on FortiSwitch to allow ingress and egress traffic for the IP phone? (Choose one answer)

- A. On VLAN IP_Phone, enable l2forward
- B. On port1, disable the edge_port
- C. On VLAN IP_Phone, enable vlanforward
- D. On port1, add VLAN 20 to the allowed_vlans list

Answer: D

Explanation:

According to the FortiSwitch OS 7.6 Administration Guide and FortiOS 7.6 FortiLink Guide, the processing of Ethernet frames on a managed FortiSwitch port depends on whether the frame is tagged or untagged upon arrival (ingress) and how the port's VLAN membership is defined.

In the provided exhibit, port1 is configured with set vlan "IP_Phone" (VLAN 20) as its native VLAN. By definition, the native VLAN handles untagged traffic; any untagged frame arriving at the port is assigned to VLAN 20, and any egress traffic from VLAN 20 is sent out of the port without a tag. However, the scenario specifically states that the IP phone tags its traffic with VLAN ID 20.

When a FortiSwitch receives a tagged frame, it checks the VLAN ID against the allowed-vlans list configured on that port. Although VLAN 20 is the native VLAN, the exhibit shows that the port has been explicitly configured with set allowed-vlans "quarantine".

This creates a restrictive filter that permits only tagged frames belonging to the "quarantine" VLAN to enter or exit the port. Because VLAN 20 (IP_Phone) is not present in the allowed-vlans list, the switch drops the tagged frames from the IP phone during ingress processing.

To resolve this, the administrator must modify the FortiSwitch port configuration by adding VLAN 20 to the allowed_vlans list (e.g., set allowed-vlans "quarantine" "IP_Phone" or set allowed-vlans-all enable). This ensures that the switch recognizes and permits tagged traffic for VLAN 20 on that physical interface. Option B is incorrect because l2forward is a Layer 3 interface setting on the FortiGate and does not address the physical port's ingress filtering logic on the switch. Disabling the edge_port (Option D) relates to Spanning Tree Protocol (STP) convergence and would not impact VLAN tag filtering.

NEW QUESTION # 108

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

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

Answer: B

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 # 109

How does FortiGate handle configuration of flow tracking sampling if you export the settings to a managed FortiSwitch stack with sampling mode set to perimeter is true?

- A. FortiGate configures and enables egress sampling on all management interfaces.
- **B. FortiGate configures FortiSwitch to perform ingress sampling on all switch interfaces, except ICL and ISL interfaces.**
- C. FortiGate configures FortiSwitch to perform ingress sampling on all switch interfaces.
- D. FortiGate configures and enables flow sampling on FortiSwitch but does not change existing sampling settings of interfaces.

Answer: B

Explanation:

When FortiGate exports configuration settings to a managed FortiSwitch stack with sampling mode set to "perimeter is true," the behavior is:

* B. FortiGate configures FortiSwitch to perform ingress sampling on all switch interfaces, except ICL and ISL interfaces. This setting ensures that all incoming traffic on normal operational ports is sampled for monitoring and analysis purposes, but it excludes the inter-chassis link (ICL) and inter-switch link (ISL) interfaces from sampling. These exclusions are typically made to prevent the duplication of sampled data and to reduce unnecessary load on the monitoring system, as these links often carry traffic already monitored at other points.

Options A and D are incorrect because they either generalize the sampling across all interfaces without exceptions or incorrectly specify egress sampling on management interfaces. Option C is also incorrect as FortiGate can modify existing sampling settings to fit the perimeter-based configuration requirement.

NEW QUESTION # 110

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