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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which QoS mechanism maps packets with specific class of service (COS) or Differentiated Services Code Point (DSCP) markings to an egress queue? (Choose one answer)

- A. Classification for ingress traffic
- B. Policing for ingress traffic
- C. Shaping for egress traffic
- D. Queuing for egress traffic

Answer: D

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, Quality of Service (QoS) on a FortiSwitch involves several distinct stages to manage traffic priority and bandwidth. The specific process of taking identified packets and placing them into a specific priority buffer for transmission is known as Queuing. 1 On FortiSwitch, when a frame enters an ingress port, it is first classified based on its incoming CoS (Layer 2) or DSCP (Layer 3) markings. 2 However, it is the Queuing for

egress traffic (Option B) mechanism that dictates which of the eight available hardware queues the frame will reside in before it is sent out of the destination port. The switch uses a mapping table (such as a CoS-to-queue or DSCP-to-queue map) to ensure that high-priority traffic, like voice or video, is placed in a higher-priority queue to minimize latency and jitter. Regarding the other options: Classification (Option A) is the initial identification of the packet's priority but does not perform the physical mapping to a buffer. Policing (Option C) is an ingress mechanism used to drop or remark traffic that exceeds a defined rate. Shaping (Option D) is an egress mechanism that smooths out traffic bursts by delaying packets but is separate from the initial queue assignment. Therefore, the act of mapping specific markings to an egress queue is a fundamental function of the queuing mechanism.

NEW QUESTION # 52

Refer to the diagnostic output:

What makes the use of the sniffer command on the FortiSwitch CLI unreliable on __port__23?

- A. The switch port might be used as a trunk member
- B. Only untagged VLAN traffic can be captured.
- C. Just the port egress payloads are printed on CLI.
- D. The types of packets captured is limited.

Answer: D

Explanation:

Page 452 of 7.2 study guide, specifically states "Although you can use the sniffer command to capture traffic on switch ports, the types of packets captured by the sniffer are very limited.

The use of the sniffer command on FortiSwitch CLI can be unreliable on port 23 for specific reasons related to the nature of traffic on the port:

D). The switch port might be used as a trunk member. When a switch port is configured as a trunk, it can carry traffic for multiple VLANs. If the sniffer is set up without specifying VLAN tags or a range of VLANs to capture, it may not accurately capture or display all the VLAN traffic due to the volume and variety of VLAN-tagged packets passing through the trunk port. This limitation makes using the sniffer on a trunk port unreliable for capturing specific VLAN traffic unless properly configured to handle tagged traffic.

References:

For guidelines on how to properly use sniffer commands on trunk ports and configure VLAN filtering, consult the FortiSwitch CLI reference available through Fortinet support channels, including the Fortinet Knowledge Base.

NEW QUESTION # 53

An administrator needs to deploy managed FortiSwitch devices in a remote location where multiple VLANs must be utilized to segment devices. No Layer 3 switch or router is present. The only WAN connectivity is the router provided by the ISP connected to the public internet.

Which two items will the administrator need to use? (Choose two.)

- A. FortiSwitch devices configured with NAT disabled.
- B. A FortiSwitch interface connected to the ISP router configured with `fortilink-13-mode` enabled.
- C. FortiSwitch and FortiGate devices configured with VXLAN interfaces.
- D. FortiSwitch and FortiGate devices configured with IPsec interfaces.
- E. FortiSwitch devices that have the required internal hardware for this configuration.

Answer: A,B

Explanation:

To deploy FortiSwitch in a remote location with multiple VLANs and no Layer 3 switch or router, you would need specific configurations:

* VXLAN Interfaces (B):

* Purpose: VXLAN (Virtual Extensible LAN) allows network segmentation without a Layer 3 device, extending VLAN capabilities across dispersed geographical locations over the WAN.

* Implementation: Configuring VXLAN on both FortiSwitch and FortiGate can encapsulate Layer 2 traffic over a Layer 3 network, making it ideal for scenarios lacking dedicated routing hardware.

* Appropriate Hardware (D):

* Requirement: Not all FortiSwitch models support advanced features like VXLAN; hence, ensuring that the hardware can support such configurations is crucial.

References:For specific information on VXLAN configuration and hardware requirements, refer to the technical documentation provided by Fortinet:Fortinet Product Documentation

NEW QUESTION # 54

Which packet capture method allows FortiSwitch to capture traffic on trunks and management interfaces?

- A. sFlow
- B. SPAN
- C. Sniffer profile
- D. TCP dump

Answer: C

Explanation:

FortiSwitch supports packet capture through various methods, but the Sniffer profile is specifically capable of capturing traffic on both trunks and management interfaces.Here's why:

* Sniffer Profile (B):

* Versatile Capture:The sniffer profile in FortiSwitch is designed to capture traffic across different types of interfaces, including trunks (where multiple VLANs are present) and management interfaces (used for controlling and monitoring the switch).

* Configuration Flexibility:You can configure sniffer profiles to target specific traffic, offering flexibility in monitoring and troubleshooting network issues on both data and management planes.

* Other Options:

* SPAN (A)is used mainly for mirroring traffic to another port for analysis but is typically limited in its ability to capture management interface traffic.

* sFlow (C)andTCP dump (D)are useful tools but do not specifically align with the capability to universally capture traffic across trunks and management interfaces in the context described.

References:For further details on configuring and utilizing sniffer profiles on FortiSwitch, refer to the FortiSwitch management documentation:Fortinet Product Documentation

NEW QUESTION # 55

Which statement about the quarantine VLAN on FortiSwitch is true?

- A. It is only used for quarantined devices if global setting is set to quarantine by VLAN.
- B. Quarantine VLAN has no DHCP server
- C. FortiSwitch can block devices without configuring quarantine VLAN to be part of the allowed VLANs.
- D. Users who fail 802.1X authentication can be placed on the quarantine VLAN.

Answer: D

Explanation:

The correct statement about the quarantine VLAN on FortiSwitch is:

* B. Users who fail 802.1X authentication can be placed on the quarantine VLAN.This feature allows network administrators to isolate devices that do not meet the network's security criteria as determined through 802.1X authentication. Placing these devices in a quarantine VLAN restricts their network access, thereby protecting the network from potential security threats posed by unauthorized or compromised devices.

Option A is incorrect as the presence of a DHCP server in a quarantine VLAN depends on specific network configurations. Option C is incorrect without more context regarding global settings, and option D misstates the functionality of quarantine VLANs, as their primary use is to restrict, not block, devices without additional VLAN configuration changes.

NEW QUESTION # 56

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