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Fortinet NSE 5 - FortiSwitch 7.6 Administrator Sample Questions (Q29-Q34):

NEW QUESTION # 29

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

Answer: A

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 # 30

Refer to the exhibit.

Commands

```
config switch-controller lldp-profile
edit "LLDP-PROFILE"
set med-tlvs network-policy
set auto-isl disable
config med-network-policy
edit "voice"
next
edit "voice-signaling"
next
edit "guest-voice"
next
edit "guest-voice-signaling"
next
edit "softphone-voice"
next
edit "video-conferencing"
next
edit "streaming-video"
next
edit "video-signaling"
next
end
config med-location-service
edit "coordinates"
next
edit "address-civic"
next
edit "elin-number"
next
end
next
end
```

The profile shown in the exhibit is assigned to a group of managed FortiSwitch ports, and these ports are connected to endpoints which are powered by PoE.

Which configuration action can you perform on the LLDP profile to cause these endpoints to exchange PoE information and negotiate power with the managed FortiSwitch?

- A. Add power management as part of LLDP-MED TLVs to advertise.
- B. Define an LLDP-MED location ID to use standard protocols for power.
- C. Create new a LLDP-MED application type to define the PoE parameters.
- D. Assign a new LLDP profile to handle different LLDP-MED TLVs.

Answer: A

Explanation:

To cause endpoints to exchange PoE information and negotiate power with the managed FortiSwitch via LLDP, you should configure the LLDP profile to include power management in the advertised LLDP-MED TLVs. Here are the steps:

* Access the LLDP Profile Configuration: Start by entering the LLDP profile configuration mode with the command:

```
config switch-controller lldp-profile
edit "LLDP-PROFILE"
```

* Enable MED-TLVs: Ensure that MED-TLVs (Media Endpoint Discovery TLVs) are enabled. These TLVs are used for extended discovery relating to network policies, including PoE, and are essential for PoE negotiation. They include power management which is crucial for the negotiation of PoE parameters between devices. The command to ensure network policies are set might look like:

```
set med-tlvs network-policy
```

* Add Power Management TLV: Specifically add or ensure the power management TLV is part of the configuration. This will advertise the PoE capabilities and requirements, enabling dynamic power allocation between the FortiSwitch and the connected devices (like VoIP phones or wireless access points). This can typically be done within the network-policy settings:

```
config med-network-policy
edit <policy_index>
set poe-capability
next
end
```

* Save and Apply Changes: Exit the configuration blocks properly ensuring changes are saved:

End

* Verify Configuration: It's always good practice to verify that your configurations have been applied correctly. Use the appropriate `show` or `get` commands to review the LLDP profile settings.

By adding the power management as part of LLDP-MED TLVs, the FortiSwitch will be able to communicate its power requirements and capabilities to the endpoints, thereby facilitating a dynamic power negotiation that is crucial for efficient PoE utilization.

References: For more detailed information and additional configurations, you can refer to the FortiSwitch Managed Switches documentation available on Fortinet's official documentation site: [Fortinet Product Documentation](#)

NEW QUESTION # 31

What does the `switch auto-network setting` control on FortiSwitch? (Choose one answer)

- A. The automatic discovery of the FortiGate->FortiLink interface
- B. The root bridge priority for Multiple Spanning Tree Protocol (MSTP)
- C. Whether the FortiSwitch can be managed by FortiManager
- D. The automatic VLAN assignment based on connected devices

Answer: A

Explanation:

According to the FortiSwitchOS 7.6 Administration Guide and the FortiSwitch 7.6 Study Guide, the `auto-network` setting (configured via `config switch auto-network`) is a global feature introduced to simplify the initial deployment of switches. Starting in FortiSwitchOS 7.2.0 and continuing through 7.6, this feature is enabled by default on all new and factory-reset units.¹ The primary function of the `auto-network` setting is to facilitate the automatic discovery of the FortiGate and the establishment of the FortiLink interface (Option B). When enabled, the switch automatically scans its physical ports to detect a management entity, such as a FortiGate controller. This "zero-touch" discovery mechanism allows the switch to identify the correct uplink ports and automatically configure them as members of the FortiLink fabric without manual CLI or GUI intervention.

Furthermore, the documentation notes that `auto-network` also manages `auto-topology`, which allows two switches to automatically form an Inter-Switch Link (ISL) trunk between them.² This includes setting the management VLAN (typically VLAN 4094) and ensuring that DHCP snooping is trusted on these discovered links.³ If an administrator intends to use the switch in a strictly standalone mode without any auto-discovery or FortiLink features, the documentation specifies that they must manually disable the `auto-network` status and the `auto-fortilink-discovery` global settings to prevent the switch from attempting to join a managed fabric.⁴

Regarding other options: Option A refers to Dynamic Port Policy or NAC features. Option C is a standard STP configuration unrelated to the `auto-network` discovery suite. Option D is a broader management capability that depends on successful network discovery but is not the specific control point for the `auto-network` setting.

NEW QUESTION # 32

Refer to the diagnostic output:

What makes the use of the `sniffer` command on the FortiSwitch CLI unreliable on `port 23`?

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

Answer: B

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 # 33

How is traffic routed on FortiSwitch?

- A. FortiSwitch looks up the hardware routing table and then the forwarding information base (FIB).
- B. ASIC hardware routing can only handle dynamic routing, if supported.
- C. Hardware-based routing on FortiSwitch is handled by the CPU.
- **D. Layer 3 routing can be configured on FortiSwitch, while managed by FortiGate.**

Answer: D

Explanation:

Layer 3 routing can be configured on FortiSwitch, while managed by FortiGate (D): FortiSwitch, when managed by FortiGate, supports Layer 3 routing capabilities. This allows for routing between VLANs directly on the switch, enhancing network efficiency by reducing the need to pass traffic through higher network layers for inter-VLAN communication. This configuration enables more sophisticated network setups and efficient routing directly at the switch level.

NEW QUESTION # 34

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