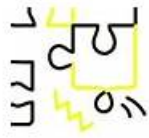


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## **Huawei HCIP-Datacom-Core Technology V1.0 Sample Questions (Q426-Q431):**

**NEW QUESTION # 426**

There is an existing switch connected to a designated port through a certain port, but this port does not forward any packets, but can monitor network changes by receiving BPDUs, so which of the following options should the role of this port be?

- A. Root port
- **B. Alternate port**
- C. Designate port
- D. Disable port

**Answer: B**

**NEW QUESTION # 427**

Match the following IPv4 multicast protocols with the corresponding functions.

IGMP		Manages IPv4 multicast group members and runs on the multicast network's last segment (that is, the network segment where a Layer 3 network device is connected to user hosts).
PIM		Sends multicast data over the network to the multicast device that is connected to group members that have requested the multicast data, implementing multicast data forwarding based on routes.
IGMP Snooping		Manages and controls the forwarding of multicast data packets to effectively suppress the flooding of multicast data packets on the Layer 2 network.

**Answer:**

Explanation:

IGMP	IGMP	Manages IPv4 multicast group members and runs on the multicast network's last segment (that is, the network segment where a Layer 3 network device is connected to user hosts).
PIM	PIM	Sends multicast data over the network to the multicast device that is connected to group members that have requested the multicast data, implementing multicast data forwarding based on routes.
IGMP Snooping	IGMP Snooping	Manages and controls the forwarding of multicast data packets to effectively suppress the flooding of multicast data packets on the Layer 2 network.

**HUAWEI**

Explanation:

IGMP:Manages IPv4 multicast group members and runs on the multicast network's last segment (that is, the network segment where a Layer 3 network device is connected to user hosts).

PIM:Sends multicast data over the network to the multicast device that is connected to group members that have requested the multicast data, implementing multicast data forwarding based on routes.

IGMP Snooping:Manages and controls the forwarding of multicast data packets to effectively suppress the flooding of multicast data packets on the Layer 2 network.

IGMP (Internet Group Management Protocol):

IGMP is used by hosts and adjacent multicast routers to establish and maintain multicast group memberships on a local subnet.

It allows a host to inform a multicast router of its desire to receive multicast traffic for a specific group.

It operates at Layer 3 and runs on the last segment of the network.

HCIP-Datacom-Core Technology Training Material (Multicast Fundamentals).

PIM (Protocol Independent Multicast):

PIM is a routing protocol designed for efficient routing of IP multicast traffic. It determines the paths over which multicast packets should be forwarded.

PIM is "protocol-independent" because it uses the underlying unicast routing table for RPF (Reverse Path Forwarding) checks.

It is responsible for distributing multicast data throughout the network.

Reference:HCIP-Datacom-Core Technology Training Material (Multicast Routing Protocols).

IGMP Snooping:

IGMP Snooping operates at Layer 2 and monitors IGMP traffic between hosts and routers.

It prevents multicast flooding by allowing a switch to forward multicast packets only to the ports that have joined specific multicast groups.

This significantly enhances efficiency in Layer 2 networks with multicast traffic.

Reference:HCIP-Datacom-Core Technology Training Material (IGMP Snooping Concepts).

#### NEW QUESTION # 428

OSPF has five types of packets, which have the same header format. If the Auth Type field in the packet header is 1, which of the following authentication modes is used?

- A. MD5 authentication
- B. Non-authentication
- C. Hash authentication
- D. Plaintext authentication

**Answer: D**

Explanation:

OSPF Authentication Overview

\* The Auth Type field in the OSPF packet header determines the authentication mode. If the Auth Type is 1, plaintext authentication is used.

\* Plaintext authentication involves transmitting the password in an easily readable format, which is less secure compared to MD5.

HCIP-Datacom-Core Reference

\* Authentication mechanisms, including plaintext authentication, are detailed in the OSPF security configuration chapter, confirming that Auth Type = 1 corresponds to plaintext.

#### NEW QUESTION # 429

ON a stateful inspection Firewall where there is no session table, when the status detection mechanism is enabled and the second packet (CYN+ACK) of 3-way hadshakes reaches the firewall.

Which of the following statements is true?

- A. If the firewall security policy permits packets to pass, the packets can pass the firewall.
- B. If the firewall security policy permits packets to pass, the session table is created.
- C. Packets must pass the firewall, and a session table is established.
- D. By default, when status detection is disabled and the permit policy is configured packets can pass.

**Answer: A**

Explanation:

In a stateful inspection firewall, if the status detection mechanism is enabled, it tracks and validates the state of connections using the session table. If there is no session table and a SYN+ACK packet reaches the firewall, it checks the security policy. If the policy explicitly permits the packet, it will pass through the firewall, but no session table will be created without the initial SYN packet. The other options are either incorrect or misrepresent the behavior of stateful inspection.

#### NEW QUESTION # 430

Security policy is the core feature of firewalls. Only valid traffic that complies with security policies can be forwarded by firewalls.

Which of the following statements are true about security policy matching rules?

- A. If a security policy contains multiple matching conditions, the relationship between them is AND.
- B. The system has a default security policy named default, where all matching conditions are any and the default action is permit.
- C. Multiple values can be configured for a single matching condition, and the values are logically ANDed.
- D. When multiple security policy rules are configured, they are sorted in a list by configuration sequence by default. A security policy rule configured earlier is placed higher in the list and has a higher priority.

**Answer: A,D**

Explanation:

Comprehensive and Detailed Step-by-Step Explanation:

1. How Firewalls Match Security Policies:

Firewalls use security policies to define rules for filtering traffic.

Each policy contains matching conditions (e.g., source IP, destination IP, protocol, etc.) and an action (e.g., permit or deny).

Traffic is evaluated against these policies in sequential order, and the first matching policy is applied.

2. Analysis of Each Statement:

Option A: Multiple values can be configured for a single matching condition, and the values are logically ANDed.

Incorrect.

Multiple values for a single matching condition (e.g., multiple source IPs) are logically ORed, not ANDed. For example, traffic from any of the specified source IPs matches the policy.

Option B: If a security policy contains multiple matching conditions, the relationship between them is AND.

Correct.

When a policy has multiple matching conditions (e.g., source IP AND destination IP AND protocol), all conditions must be met for the policy to match.

Option C: The system has a default security policy named default, where all matching conditions are any and the default action is permit.

Incorrect.

The default security policy typically denies all traffic unless explicitly permitted by user-defined policies.

Option D: When multiple security policy rules are configured, they are sorted in a list by configuration sequence by default. A security policy rule configured earlier is placed higher in the list and has a higher priority.

Correct.

Security policies are processed in sequential order based on their configuration sequence. Policies configured earlier have higher priority and are evaluated first.

3. Summary:

The correct statements are B and D.





Reference:

Huawei HCIA-Datacom Study Guide, Chapter "Firewall Security Policy Matching."

## NEW QUESTION # 431

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