



IDS/IPS Analysis Questions

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Log Details

- **date:** Date information
- **time:** Time information
- **devname:** System name
- **devid:** System ID information
- **tz:** Timezone
- **logid:** Log ID information
- **type:** Log type
- **subtype:** Log subtype
- **level:** Log level
- **severity:** Incident severity level
- **srcip:** Source IP address
- **dstip:** Destination IP address
- **srccountry:** Source country
- **dstcountry:** Destination country
- **action:** Action information
- **service:** Service information
- **attack:** Attack details
- **srcport:** Source port information
- **dstport:** Destination port information
- **direction:** Direction of packet
- **attackid:** Attack ID information
- **msg:** Additional message information

Investigation Points

- Check the direction of the attack (inbound or outbound).
- Verify the event severity level.
- Examine different signature triggers between the same source and target.
- Confirm if the port/service specified in the attack detail is running on the target.
- Determine whether the action is just detection or blocked.

IDS/IPS logs contain critical information about source-target IPs, ports, action, attack type, category, and level.

Suspicious Activities Detected by IDS/IPS

- Port scanning activities
- Vulnerability scans
- Code Injection attacks
- Brute-Force attacks
- Dos/Ddos attacks
- Trojan activities
- Botnet activities

Quiz Results

IDS and IPS Functions

Quiz Results: IDS is a system that the attacks. IPS is a system that the attacks.

Fill in the blanks.

- A) prevent - detect
- B) detect - prevent
- C) detect - detect
- D) prevent - prevent

```
{"timestamp":"2022-06-13T08:25:36", "in_iface":"ens1f1", "event_type":"alert","vlan":1,"src_ip":"192.168.1.11",  
"src_port":53,"dest_ip":"172.16.2.25", "dest_port":1029,"proto":"UDP", "alert":{"action":"allowed", "gid":1, "signature_id":2811577,  
"rev":3, "signature":"ETPRO TROJAN Possible Virut DGA NXDOMAIN Responses", "category":"A Network Trojan was detected",  
"severity":1, "metadata":{"updated_at":["2021_09_22"],"created_at":["2015_06_18"]}}, "app_proto":"failed",  
"payload":"dnV5ZWltLmNvbQo=", "payload_printable":"vuyeim.com", "stream":0}
```

IDS/IPS Log Analysis

Questions:

1. What is the IP address related to the **malicious domain**? **-172.16.2.25**
2. Which of the following is a true statement?
 - A) The request is blocked by the firewall.
 - **B) The related IDS has caught the DNS request in the return traffic.**
 - C) The category of the IDS rule is in the "DNS attack" category.

IDS/IPS Alarm Outputs

Which of the following information is normally **not included** in the IDS/IPS alarm outputs?

- A) Payload information
- B) IP and Port information
- **C) Parent process information**
- D) Action information
- E) Signature information

IDS Log Analysis

Answer the following questions according to the above-referenced IDS log:

1. Which of the following is **not** correct?
 - A) The system making malicious domain requests may be infected.
 - B) The relevant domain has not been accessed.**
 - C) The DNS server has responded to the domain request.
 - D) The domain categorized as DGA is vuyeim.com.

Note: Always analyze IDS/IPS logs thoroughly to ensure accurate interpretation and effective response to potential security threats.