

## GIAC

GCED

*GIAC Certified Enterprise Defender*



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## Question: 1

When an IDS system looks for a pattern indicating a known worm, what type of detection method is it using?

- A. Signature-based
- B. Anomaly-based
- C. Statistical
- D. Monitored

**Answer: A**

## Question: 2

Why would an incident handler acquire memory on a system being investigated?

- A. To determine whether a malicious DLL has been injected into an application
- B. To identify whether a program is set to auto-run through a registry hook
- C. To list which services are installed on the system
- D. To verify which user accounts have root or admin privileges on the system

**Answer: C**

## Question: 3

Which could be described as a Threat Vector?

- A. A web server left unpatched and vulnerable to XSS
- B. A coding error allowing remote code execution
- C. A botnet that has infiltrated perimeter defenses
- D. A wireless network left open for anonymous use

**Answer: A**

A threat vector is the method (crafted packet) that would be used to exercise a vulnerability (fragmentation to bypass IDS signature). An unpatched web server that is susceptible to XSS simply describes a vulnerability (unpatched) paired with a specific threat (XSS) and does not touch on the method to activate the threat. Similarly, the coding error that allows remote code execution is simply describing the pairing of a vulnerability with a threat, respectively. The botnet is an unspecified threat; there is no indication of how the threat was activated (or its intention/capabilities; the threat).

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## Question: 4

A security device processes the first packet from 10.62.34.12 destined to 10.23.10.7 and recognizes a malicious anomaly. The first packet makes it to 10.23.10.7 before the security device sends a TCP RST to 10.62.34.12. What type of security device is this?

- A. Host IDS
- B. Active response
- C. Intrusion prevention
- D. Network access control

**Answer: B**

An active response device dynamically reconfigures or alters network or system access controls, session streams, or individual packets based on triggers from packet inspection and other detection devices. Active response happens after the event has occurred, thus a single packet attack will be successful on the first attempt and blocked in future attempts. Network intrusion prevention devices are typically inline devices on the network that inspect packets and make decisions before forwarding them on to the destination. This type of device has the capability to defend against single packet attacks on the first attempt by blocking or modifying the attack inline.

## Question: 5

Which tool uses a Snort rules file for input and by design triggers Snort alerts?

- A. snort
- B. stick
- C. Nidsbench
- D. ftester

**Answer: C**

## Question: 6

Network administrators are often hesitant to patch the operating systems on CISCO router and switch operating systems, due to the possibility of causing network instability, mainly because of which of the following?

- A. Having to rebuild all ACLs
- B. Having to replace the kernel
- C. Having to re-IP the device
- D. Having to rebuild ARP tables

E. Having to rebuild the routing tables

**Answer: B**

Many administrators are hesitant to upgrade the IOS on routers based on past experience with the code introducing instability into the network. It is often difficult to completely test an IOS software upgrade in a production environment because the monolithic kernel requires that the IOS be replaced before the device can be tested. Because of these reasons, IOS upgrades to resolve security flaws are often left undone in many organizations.

### Question: 7

A company estimates a loss of \$2,374 per hour in sales if their website goes down. Their webserver hosting site's documented downtime was 7 hours each quarter over the last two years. Using the information, what can the analyst determine?

- A. Annualized loss expectancy
- B. CVSS risk score
- C. Total cost of ownership
- D. Qualitative risk posture

**Answer: A**

The annualized loss expectancy (ALE) is deduced by multiplying the single loss expectancy (SLE) by the annual rate of occurrence (ARO); in this example  $\$2,374 \times (7 \times 4)$ , respectively. This is a form of Quantitative risk analysis. Qualitative risk posture is deduced by measuring and contrasting the likelihood (probability of occurrence) with the level of impact and by definition does not address risk using monetary figures. Total cost of ownership (TCO) is the sum of all costs (technical, administrative, environmental, et al) that are involved for a specific system, service, etc. CVSS risk scoring is not based off of this type of loss data.

### Question: 8

To detect worms and viruses buried deep within a network packet payload, Gigabytes worth of traffic content entering and exiting a network must be checked with which of the following technologies?

- A. Proxy matching
- B. Signature matching
- C. Packet matching
- D. Irregular expression matching
- E. Object matching

**Answer: C**

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### Question: 9

When identifying malware, what is a key difference between a Worm and a Bot?

- A. A Worm gets instructions from an external control channel like an IRC server.
- B. A Worm, unlike a Bot, is installed silently as an add-on to a legitimate program.
- C. A Bot, unlike a Worm, is frequently spread through email attachments.
- D. A Bot gets instructions from an external control channel like an IRC server.

**Answer: D**

### Question: 10

Monitoring the transmission of data across the network using a man-in-the-middle attack presents a threat against which type of data?

- A. At-rest
- B. In-transit
- C. Public
- D. Encrypted

**Answer: B**

### Question: 11

Which type of media should the IR team be handling as they seek to understand the root cause of an incident?

- A. Restored media from full backup of the infected host
- B. Media from the infected host, copied to the dedicated IR host
- C. Original media from the infected host
- D. Bit-for-bit image from the infected host

**Answer: A**

By imaging the media with tools such as dd or Ghost and analyzing the copy, you preserve the original media for later analysis so that the results can be recreated by another competent examiner if necessary.

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