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# Question 1

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**Question Type:** MultipleChoice

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A security analyst found the following vulnerability on the company's website:

Which of the following should be implemented to prevent this type of attack in the future?

**Options:**

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- A- Input sanitization
- B- Output encoding
- C- Code obfuscation
- D- Prepared statements

**Answer:**

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A

**Explanation:**

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This is a type of web application vulnerability called cross-site scripting (XSS), which allows an attacker to inject malicious code into a web page that is viewed by other users. XSS can be used to steal cookies, session tokens, credentials, or other sensitive information, or to perform actions on behalf of the victim.

Input sanitization is a technique that prevents XSS attacks by checking and filtering the user input before processing it. Input sanitization can remove or encode any characters or strings that may be interpreted as code by the browser, such as <, >, ', ', or javascript:. Input sanitization can also validate the input against a predefined format or range of values, and reject any input that does not match.

Output encoding is a technique that prevents XSS attacks by encoding the output before sending it to the browser. Output encoding can convert any characters or strings that may be interpreted as code by the browser into harmless entities, such as <, >, ', ', or javascript:. Output encoding can also escape any special characters that may have a different meaning in different contexts, such as , /, or ;.

Code obfuscation is a technique that makes the source code of a web application more difficult to read and understand by humans. Code obfuscation can use techniques such as renaming variables and functions, removing comments and whitespace, replacing literals with expressions, or adding dummy code. Code obfuscation can help protect the intellectual property and trade secrets of a web application, but it does not prevent XSS attacks.

## Question 2

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**Question Type:** MultipleChoice

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A security analyst recently used Arachni to perform a vulnerability assessment of a newly developed web application. The analyst is concerned about the following output:

[+] XSS: In form input 'txtSearch' with action https://localhost/search.aspx

[-] XSS: Analyzing response #1...

[-] XSS: Analyzing response #2...

[-] XSS: Analyzing response #3...

[+] XSS: Response is tainted. Looking for proof of the vulnerability.

Which of the following is the most likely reason for this vulnerability?

### Options:

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- A-** The developer set input validation protection on the specific field of search.aspx.
- B-** The developer did not set proper cross-site scripting protections in the header.
- C-** The developer did not implement default protections in the web application build.
- D-** The developer did not set proper cross-site request forgery protections.

### Answer:

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B

### Explanation:

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The most likely reason for this vulnerability is B. The developer did not set proper cross-site scripting protections in the header. Cross-site scripting (XSS) is a type of web application vulnerability that allows an attacker to inject malicious code into a web page that is viewed by other users. XSS can be used to steal cookies, session tokens, credentials, or other sensitive information, or to perform actions on behalf of the victim<sup>1</sup>.

One of the common ways to prevent XSS attacks is to set proper HTTP response headers that instruct the browser how to handle the content of the web page. For example, the Content-Type header can specify the MIME type and character encoding of the web page, which can help the browser avoid interpreting data as code. The X-XSS-Protection header can enable or disable the browser's built-in XSS filter, which can block or sanitize suspicious scripts. The Content-Security-Policy header can define a whitelist of sources and directives that control what resources and scripts can be loaded or executed on the web page<sup>2</sup>.

According to the output of Arachni, a web application security scanner framework<sup>3</sup>, it detected an XSS vulnerability in the form input 'txtSearch' with action `https://localhost/search.aspx`. This means that Arachni was able to inject a malicious script into the input field and observe its execution in the response. This indicates that the developer did not set proper cross-site scripting protections in the header of `search.aspx`, which allowed Arachni to bypass the browser's default security mechanisms and execute arbitrary code on the web page.

## Question 3

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**Question Type:** MultipleChoice

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An analyst needs to provide recommendations based on a recent vulnerability scan:

Plug-in name	Family
SMB use domain SID to enumerate users	Windows : User management
SYN scanner	Port scanners
SSL certificate cannot be trusted	General
Scan not performed with admin privileges	Settings

Which of the following should the analyst recommend addressing to ensure potential vulnerabilities are identified?

**Options:**

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- A- SMB use domain SID to enumerate users
- B- SYN scanner
- C- SSL certificate cannot be trusted
- D- Scan not performed with admin privileges

**Answer:**

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D

**Explanation:**

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This is because scanning without admin privileges can limit the scope and accuracy of the vulnerability scan, and potentially miss some critical vulnerabilities that require higher privileges to detect. According to the OWASP Vulnerability Management Guide<sup>1</sup>, "scanning without administrative privileges will result in a large number of false negatives and an incomplete scan". Therefore, the analyst should recommend addressing this issue to ensure potential vulnerabilities are identified.

## Question 4

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**Question Type:** MultipleChoice

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A security team identified several rogue Wi-Fi access points during the most recent network scan. The network scans occur once per quarter. Which of the following controls would best allow the organization to identify rogue devices more quickly?

### Options:

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- A- Implement a continuous monitoring policy.
- B- Implement a BYOD policy.
- C- Implement a portable wireless scanning policy.
- D- Change the frequency of network scans to once per month.

## Answer:

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A

## Explanation:

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The best control to allow the organization to identify rogue devices more quickly is

A) Implement a continuous monitoring policy. A continuous monitoring policy is a set of procedures and tools that enable an organization to detect and respond to unauthorized or anomalous activities on its network in real time or near real time. A continuous monitoring policy can help identify rogue access points as soon as they appear on the network, rather than waiting for quarterly or monthly scans. A continuous monitoring policy can also help improve the overall security posture and compliance of the organization by providing timely and accurate information about its network assets, vulnerabilities, threats, and incidents<sup>1</sup>.

## Question 5

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**Question Type: MultipleChoice**

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Which Of the following techniques would be best to provide the necessary assurance for embedded software that drives centrifugal pumps at a power Plant?



## Options:

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- A- Containerization
- B- Manual code reviews
- C- Static and dynamic analysis
- D- Formal methods

## Answer:

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D

## Explanation:

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According to the CompTIA CySA+ Study Guide: Exam CS0-003, 3rd Edition<sup>1</sup>, the best technique to provide the necessary assurance for embedded software that drives centrifugal pumps at a power plant is formal methods. Formal methods are a rigorous and mathematical approach to software development and verification, which can ensure the correctness and reliability of critical software systems. Formal methods can be used to specify, design, implement, and verify embedded software using formal languages, logics, and tools<sup>1</sup>.

Containerization, manual code reviews, and static and dynamic analysis are also useful techniques for software assurance, but they are not as rigorous or comprehensive as formal methods. Containerization is a method of isolating and packaging software applications with their dependencies, which can improve security, portability, and scalability. Manual code reviews are a process of examining the source code of a software program by human reviewers, which can help identify errors, vulnerabilities, and compliance issues. Static and dynamic analysis are techniques of testing and evaluating software without executing it (static) or while executing it (dynamic), which can help detect bugs, defects, and performance issues<sup>1</sup>.

## Question 6

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**Question Type:** MultipleChoice

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During a recent site survey, an analyst discovered a rogue wireless access point on the network. Which of the following actions should be taken first to protect the network while preserving evidence?

### Options:

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- A- Run a packet sniffer to monitor traffic to and from the access point.
- B- Connect to the access point and examine its log files.
- C- Identify who is connected to the access point and attempt to find the attacker.
- D- Disconnect the access point from the network

### Answer:

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D

### Explanation:

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The correct answer is D. Disconnect the access point from the network.

A rogue access point is a wireless access point that has been installed on a network without the authorization or knowledge of the network administrator. A rogue access point can pose a serious security risk, as it can allow unauthorized users to access the network, intercept network traffic, or launch attacks against the network or its devices<sup>1234</sup>.

The first action that should be taken to protect the network while preserving evidence is to disconnect the rogue access point from the network. This will prevent any further damage or compromise of the network by blocking the access point from communicating with other devices or users. Disconnecting the rogue access point will also preserve its state and configuration, which can be useful for forensic analysis and investigation. Disconnecting the rogue access point can be done physically by unplugging it from the network port or wirelessly by disabling its radio frequency<sup>5</sup>.

The other options are not the best actions to take first, as they may not protect the network or preserve evidence effectively.

Option A is not the best action to take first, as running a packet sniffer to monitor traffic to and from the access point may not stop the rogue access point from causing harm to the network. A packet sniffer is a tool that captures and analyzes network packets, which are units of data that travel across a network. A packet sniffer can be useful for identifying and troubleshooting network problems, but it may not be able to prevent or block malicious traffic from a rogue access point. Moreover, running a packet sniffer may require additional time and resources, which could delay the response and mitigation of the incident<sup>5</sup>.

Option B is not the best action to take first, as connecting to the access point and examining its log files may not protect the network or preserve evidence. Connecting to the access point may expose the analyst's device or credentials to potential attacks or compromise by the rogue access point. Examining its log files may provide some information about the origin and activity of the rogue access point, but it may also alter or delete some evidence that could be useful for forensic analysis and investigation. Furthermore, connecting to the access point and examining its log files may not prevent or stop the rogue access point from continuing to harm the network<sup>5</sup>.

Option C is not the best action to take first, as identifying who is connected to the access point and attempting to find the attacker may not protect the network or preserve evidence. Identifying who is connected to the access point may require additional tools or techniques, such as scanning for wireless devices or analyzing network traffic, which could take time and resources away from responding and mitigating the incident. Attempting to find the attacker may also be difficult or impossible, as the attacker may use various methods to hide their identity or location, such as encryption, spoofing, or proxy servers. Moreover, identifying who is connected to the access point and attempting to find the attacker may not prevent or stop the rogue access point from causing further damage or compromise to the network<sup>5</sup>.

1 [CompTIA Cybersecurity Analyst \(CySA+\) Certification Exam Objectives](#)

2 [Cybersecurity Analyst+ - CompTIA](#)

3 [CompTIA CySA+ CS0-002 Certification Study Guide](#)

4 [CertMaster Learn for CySA+ Training - CompTIA](#)

5 [How to Protect Against Rogue Access Points on Wi-Fi - Byos](#)

6 [Wireless Access Point Protection: 5 Steps to Find Rogue Wi-Fi Networks ...](#)

7 [Rogue Access Point - Techopedia](#)

8 [Rogue access point - Wikipedia](#)

9 [What is a Rogue Access Point \(Rogue AP\)? - Contextual Security](#)

## Question 7

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**Question Type:** MultipleChoice

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Which of the following best describes the importance of implementing TAXII as part of a threat intelligence program?

### Options:

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- A- It provides a structured way to gain information about insider threats.
- B- It proactively facilitates real-time information sharing between the public and private sectors.
- C- It exchanges messages in the most cost-effective way and requires little maintenance once implemented.
- D- It is a semi-automated solution to gather threat intelligence about competitors in the same sector.

### Answer:

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B

### Explanation:

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The correct answer is B. It proactively facilitates real-time information sharing between the public and private sectors.

TAXII, or Trusted Automated eXchange of Intelligence Information, is a standard protocol for sharing cyber threat intelligence in a standardized, automated, and secure manner. TAXII defines how cyber threat information can be shared via services and message exchanges, such as discovery, collection management, inbox, and poll. TAXII is designed to support STIX, or Structured Threat Information eXpression, which is a standardized language for describing cyber threat information in a readable and consistent format. Together, STIX and TAXII form a framework for sharing and using threat intelligence, creating an open-source platform that allows users to search through records containing attack vectors details such as malicious IP addresses, malware signatures, and threat actors<sup>123</sup>.

The importance of implementing TAXII as part of a threat intelligence program is that it proactively facilitates real-time information sharing between the public and private sectors. By using TAXII, organizations can exchange cyber threat information with various entities, such as security vendors, government agencies, industry associations, or trusted groups. TAXII enables different sharing models, such as hub and spoke, source/subscriber, or peer-to-peer, depending on the needs and preferences of the information producers and consumers. TAXII also supports different levels of access control, encryption, and authentication to ensure the security and privacy of the shared information<sup>123</sup>.

By implementing TAXII as part of a threat intelligence program, organizations can benefit from the following advantages:

They can receive timely and relevant information about the latest threats and vulnerabilities that may affect their systems or networks.

They can leverage the collective knowledge and experience of other organizations that have faced similar or related threats.

They can improve their situational awareness and threat detection capabilities by correlating and analyzing the shared information.

They can enhance their incident response and mitigation strategies by applying the best practices and recommendations from the shared information.

They can contribute to the overall improvement of cyber security by sharing their own insights and feedback with other organizations<sup>123</sup>.

The other options are incorrect because they do not accurately describe the importance of implementing TAXII as part of a threat intelligence program.

Option A is incorrect because TAXII does not provide a structured way to gain information about insider threats. Insider threats are malicious activities conducted by authorized users within an organization, such as employees, contractors, or partners. Insider threats can be detected by using various methods, such as user behavior analysis, data loss prevention, or anomaly detection. However, TAXII is not designed to collect or share information about insider threats specifically. TAXII is more focused on external threats that originate from outside sources, such as hackers, cybercriminals, or nation-states<sup>4</sup>.

Option C is incorrect because TAXII does not exchange messages in the most cost-effective way and requires little maintenance once implemented. TAXII is a protocol that defines how messages are exchanged, but it does not specify the cost or maintenance of the exchange. The cost and maintenance of implementing TAXII depend on various factors, such as the type and number of services used, the volume and frequency of data exchanged, the security and reliability requirements of the exchange, and the availability and compatibility of existing tools and platforms. Implementing TAXII may require significant resources and efforts from both the information producers and consumers to ensure its functionality and performance<sup>5</sup>.

Option D is incorrect because TAXII is not a semi-automated solution to gather threat intelligence about competitors in the same sector. TAXII is a fully automated solution that enables the exchange of threat intelligence among various entities across different sectors. TAXII does not target or collect information about specific competitors in the same sector. Rather, it aims to foster collaboration and cooperation among organizations that share common interests or goals in cyber security. Moreover, gathering threat intelligence about competitors in the same sector may raise ethical and legal issues that are beyond the scope of TAXII.

[1 What is STIX/TAXII? | Cloudflare](#)

[2 What Are STIX/TAXII Standards? - Anomali Resources](#)

[3 What is STIX and TAXII? - EclecticIQ](#)

[4 What Is an Insider Threat? Definition & Examples | Varonis](#)

[5 Implementing STIX/TAXII - GitHub Pages](#)

[\[6\] Cyber Threat Intelligence: Ethical Hacking vs Unethical Hacking | Infosec](#)



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