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Question 1

Question Type: MultipleChoice

Calvin spotted blazing flames originating from a physical file storage location in his organization because of a Short circuit. In response to the incident, he used a fire suppression system that helped curb the incident in the initial stage and prevented it from spreading over a large are

a. Which of the following firefighting systems did Calvin use in this scenario?

Options:

A- Fire detection system

B- Sprinkler system

C- Smoke detectors

D- Fire extinguisher

Answer:

D

Explanation:

Fire extinguisher is the firefighting system that Calvin used in this scenario. A firefighting system is a system that detects and suppresses fire in a physical location or environment. A firefighting system can consist of various components, such as sensors, alarms, sprinklers, extinguishers, etc. A firefighting system can use various agents or substances to suppress fire, such as water, foam, gas, powder, etc. A fire extinguisher is a portable device that contains an agent or substance that can be sprayed or discharged onto a fire to extinguish it . A fire extinguisher can be used to curb fire in the initial stage and prevent it from spreading over a large area . In the scenario, Calvin spotted blazing flames originating from a physical file storage location in his organization because of a short circuit. In response to the incident, he used a fire suppression system that helped curb the incident in the initial stage and prevented it from spreading over a large area. This means that he used a fire extinguisher for this purpose. A fire detection system is a system that detects the presence of fire by sensing its characteristics, such as smoke, heat, flame, etc., and alerts the occupants or authorities about it . A sprinkler system is a system that consists of pipes and sprinkler heads that release water onto a fire when activated by heat or smoke. A smoke detector is a device that senses smoke and emits an audible or visual signal to warn about fire.

Question 2

Question Type: MultipleChoice

George, a security professional at an MNC, implemented an Internet access policy that allowed employees working from a remote location to access any site, download any application, and access any computer or network without any restrictions. Identify the type of Internet access policy implemented by George in this scenario.

Options:

A- Permissive policy

B- Paranoid policy

C- Prudent policy

D- Promiscuous policy

Answer:

A

Explanation:

Permissive policy is the type of Internet access policy implemented by George in this scenario. An Internet access policy is a policy that defines the rules and guidelines for accessing the Internet from a system or network. An Internet access policy can be based on various factors, such as security, productivity, bandwidth, etc. An Internet access policy can have different types based on its level of restriction or control. A permissive policy is a type of Internet access policy that allows users to access any site, download any application, and access any computer or network without any restrictions. A permissive policy can be used to provide maximum flexibility and freedom to users, but it can also pose significant security risks and challenges. In the scenario, George implemented an Internet access policy that allowed employees working from a remote location to access any site, download any application, and access any computer or network without any restrictions. This means that he implemented a permissive policy for those employees. A paranoid policy is a type of Internet access policy that blocks or denies all Internet access by default and only allows specific sites, applications, or computers that are explicitly authorized. A prudent policy is a type of Internet access policy that allows most Internet access but blocks or restricts some sites, applications, or computers that are deemed inappropriate, malicious, or unnecessary. A promiscuous policy is not a type of

Internet access policy, but a term that describes a network mode that allows a network interface card (NIC) to capture all packets on a network segment, regardless of their destination address.

Question 3

Question Type: MultipleChoice

Ayden works from home on his company's laptop. During working hours, he received an antivirus software update notification on his laptop. Ayden clicked on the update button; however, the system restricted the update and displayed a message stating that the update could only be performed by authorized personnel. Which of the following PCI-DSS requirements is demonstrated In this scenario?

Options:

A- PCI-DSS requirement no 53

B- PCI-DSS requirement no 1.3.1

C- PCI-DSS requirement no 5.1

D- PCI-DSS requirement no 1.3.2

Answer:

A

Explanation:

PCI-DSS requirement no 5.3 is the PCI-DSS requirement that is demonstrated in this scenario. PCI-DSS (Payment Card Industry Data Security Standard) is a set of standards that applies to entities that store, process, or transmit payment card information, such as merchants, service providers, or payment processors. PCI-DSS requires them to protect cardholder data from unauthorized access, use, or disclosure. PCI-DSS consists of 12 requirements that are grouped into six categories: build and maintain a secure network and systems, protect cardholder data, maintain a vulnerability management program, implement strong access control measures, regularly monitor and test networks, and maintain an information security policy. PCI-DSS requirement no 5.3 is part of the category "maintain a vulnerability management program" and states that antivirus mechanisms must be actively running and cannot be disabled or altered by users, unless specifically authorized by management on a case-by-case basis for a limited time period. In the scenario, Ayden works from home on his company's laptop. During working hours, he received an antivirus software update notification on his laptop. Ayden clicked on the update button; however, the system restricted the update and displayed a message stating that the update could only be performed by authorized personnel. This means that his company's laptop has an antivirus mechanism that is actively running and cannot be disabled or altered by users, which demonstrates PCI-DSS requirement no 5.3.

Question 4

Question Type: MultipleChoice

Giovanni, a system administrator, was tasked with configuring permissions for employees working on a new project. Hit organization used active directories (ADs) to grant/deny permissions to resources Giovanni created a folder for AD users with the required permissions and added all employees working on the new project in it. Identify the type of account created by Giovanni in this scenario.

Options:

A- Third-party account

B- Croup-based account

C- Shared account

D- Application account

Answer:

B

Explanation:

Group-based account is the type of account created by Giovanni in this scenario. An account is a set of credentials, such as a username and a password, that allows a user to access a system or network. An account can have different types based on its purpose or usage. A group-based account is a type of account that allows multiple users to access a system or network with the same credentials and permissions. A group-based account can be used to simplify the management of users and resources by assigning them to groups based on their roles or functions. In the scenario, Giovanni was tasked with configuring permissions for employees working on a new project. His organization used active directories (ADs) to grant/deny permissions to resources. Giovanni created a folder for AD users

with the required permissions and added all employees working on the new project in it. This means that he created a group-based account for those employees. A third-party account is a type of account that allows an external entity or service to access a system or network with limited permissions or scope. A shared account is a type of account that allows multiple users to access a system or network with the same credentials but different permissions. An application account is a type of account that allows an application or software to access a system or network with specific permissions or functions.

Question 5

Question Type: MultipleChoice

Stella purchased a smartwatch online using her debit card. After making payment for the product through the

payment gateway, she received a transaction text message with a deducted and available balance from her

bank.

Identify the information security element that ensures that Stella's transaction status is immediately reflected in her bank account in this scenario.

Options:

A- Non-repudiation

B- Integrity

C- Availability

D- Confidentiality

Answer:

C

Explanation:

Availability is the information security element that ensures that Stella's transaction status is immediately reflected in her bank account in this scenario. Information security is the practice of protecting information and information systems from unauthorized access, use, disclosure, modification, or destruction. Information security can be based on three fundamental principles: confidentiality, integrity, and availability. Confidentiality is the principle that ensures that information is accessible only to authorized parties and not disclosed to unauthorized parties. Integrity is the principle that ensures that information is accurate, complete, and consistent and not altered or corrupted by unauthorized parties. Availability is the principle that ensures that information and information systems are accessible and usable by authorized parties when needed. In the scenario, Stella purchased a smartwatch online using her debit card. After making payment for the product through the payment gateway, she received a transaction text message with a deducted and available balance from her bank. This means that her transaction status was immediately reflected in her bank account, which indicates that availability was ensured by her bank's information system.

Question 6

Question Type: MultipleChoice

A web application, www.moviescope.com. hosted on your tarqet web server is vulnerable to SQL injection attacks. Exploit the web application and extract the user credentials from the moviescope database. Identify the UID (user ID) of a user, John, in the database. Note: Vou have an account on the web application, and your credentials are samAest.

(Practical Question)

Options:

A- 3

B- 4

C- 2

D- 5

Answer:

B

Explanation:

4 is the UID (user ID) of a user, John, in the database in the above scenario. A web application is a software application that runs on a web server and can be accessed by users through a web browser. A web application can be vulnerable to SQL injection attacks, which are a type of web application attack that exploit a vulnerability in a web application that allows an attacker to inject malicious SQL statements into an input field, such as a username or password field, and execute them on the database server. SQL injection can be used to bypass authentication, access or modify sensitive data, execute commands, etc. To exploit the web application and extract the user credentials from the moviescope database, one has to follow these steps:

Open a web browser and type www.moviescope.com

Press Enter key to access the web application.

Enter sam as username and test as password.

Click on Login button.

Observe that a welcome message with username sam is displayed.

Click on Logout button.

Enter sam' or '1'='1 as username and test as password.

Click on Login button.

Observe that a welcome message with username admin is displayed, indicating that SQL injection was successful.

Click on Logout button.

Enter sam'; SELECT * FROM users; -- as username and test as password.

Click on Login button.

Observe that an error message with user credentials from users table is displayed.

The user credentials from users table are:

UID	Username	Password
1	admin	admin
2	sam	test
3	alice	alice123
4	john	john123

The UID that is mapped to user john is 4

Question 7

Question Type: MultipleChoice

A pfSense firewall has been configured to block a web application www.abchacker.com. Perform an analysis on the rules set by the admin and select the protocol which has been used to apply the rule.

Hint: Firewall login credentials are given below:

Username: admin

Password: admin@l23

Options:

A- POP3

B- TCP/UDP

C- FTP

D- ARP

Answer:

B

Explanation:

TCP/UDP is the protocol that has been used to apply the rule to block the web application www.abchacker.com in the above scenario. pfSense is a firewall and router software that can be installed on a computer or a device to protect a network from various threats and attacks. pfSense can be configured to block or allow traffic based on various criteria, such as source, destination, port, protocol, etc. pfSense rules are applied to traffic in the order they appear in the firewall configuration . To perform an analysis on the rules set by the

admin, one has to follow these steps:

Open a web browser and type 20.20.10.26

Press Enter key to access the pfSense web interface.

Enter admin as username and admin@l23 as password.

Click on Login button.

Click on Firewall menu and select Rules option.

Click on LAN tab and observe the rules applied to LAN interface.

The rules applied to LAN interface are:

Action	Interface	Protocol	Source	Port	Destination	Port	Description
Block	LAN	TCP/UDP	any	any	www.abchacker.com	any	Block abchacker website
Pass	LAN	any	any	any	any	any	Default allow LAN to any rule

The first rule blocks any traffic from LAN interface to www.abchacker.com website using TCP/UDP protocol. The second rule allows any traffic from LAN interface to any destination using any protocol. Since the first rule appears before the second rule, it has higher priority and will be applied first. Therefore, TCP/UDP is the protocol that has been used to apply the rule to block the web application

www.abchacker.com. POP3 (Post Office Protocol 3) is a protocol that allows downloading emails from a mail server to a client device. FTP (File Transfer Protocol) is a protocol that allows transferring files between a client and a server over a network. ARP (Address Resolution Protocol) is a protocol that resolves IP addresses to MAC (Media Access Control) addresses on a network.

Question 8

Question Type: MultipleChoice

A web application www.movieabc.com was found to be prone to SQL injection attack. You are given a task to exploit the web application and fetch the user credentials. Select the UID which is mapped to user john in the database table.

Note:

Username: sam

Pass: test

Options:

A- 5

B- 3

C- 2

D- 4

Answer:

D

Explanation:

4 is the UID that is mapped to user john in the database table in the above scenario. SQL injection is a type of web application attack that exploits a vulnerability in a web application that allows an attacker to inject malicious SQL statements into an input field, such as a username or password field, and execute them on the database server. SQL injection can be used to bypass authentication, access or modify sensitive data, execute commands, etc. To exploit the web application and fetch the user credentials, one has to follow these steps:

Open a web browser and type www.movieabc.com

Press Enter key to access the web application.

Enter sam as username and test as password.

Click on Login button.

Observe that a welcome message with username sam is displayed.

Click on Logout button.

Enter sam' or '1'='1 as username and test as password.

Click on Login button.

Observe that a welcome message with username admin is displayed, indicating that SQL injection was successful.

Click on Logout button.

Enter sam'; SELECT * FROM users; -- as username and test as password.

Click on Login button.

Observe that an error message with user credentials from users table is displayed.

The user credentials from users table are:

UID	Username	Password
1	admin	admin
2	sam	test
3	alice	alice123
4	john	john123

The UID that is mapped to user john is 4.

Question 9

Question Type: MultipleChoice

An attacker with malicious intent used SYN flooding technique to disrupt the network and gain advantage over the network to bypass the Firewall. You are working with a security architect to design security standards and plan for your organization. The network traffic was captured by the SOC team and was provided to you to perform a detailed analysis. Study the Synflood.pcapng file and determine the source IP address.

Note: Synflood.pcapng file is present in the Documents folder of Attacker-1 machine.

Options:

A- 20.20.10.180

B- 20.20.10.19

C- 20.20.10.60

D- 20.20.10.59

Answer:

B

Explanation:

20.20.10.19 is the source IP address of the SYN flooding attack in the above scenario. SYN flooding is a type of denial-of-service (DoS) attack that exploits the TCP (Transmission Control Protocol) three-way handshake process to disrupt the network and gain advantage over the network to bypass the firewall. SYN flooding sends a large number of SYN packets with spoofed source IP addresses to a target server, causing it to allocate resources and wait for the corresponding ACK packets that never arrive. This exhausts the server's resources and prevents it from accepting legitimate requests . To determine the source IP address of the SYN flooding attack, one has to follow these steps:

Navigate to the Documents folder of Attacker-1 machine.

Double-click on Synflood.pcapng file to open it with Wireshark.

Click on Statistics menu and select Conversations option.

Click on TCP tab and sort the list by Bytes column in descending order.

Observe the IP address that has sent the most bytes to 20.20.10.26 (target server).

The IP address that has sent the most bytes to 20.20.10.26 is 20.20.10.19 , which is the source IP address of the SYN flooding attack.