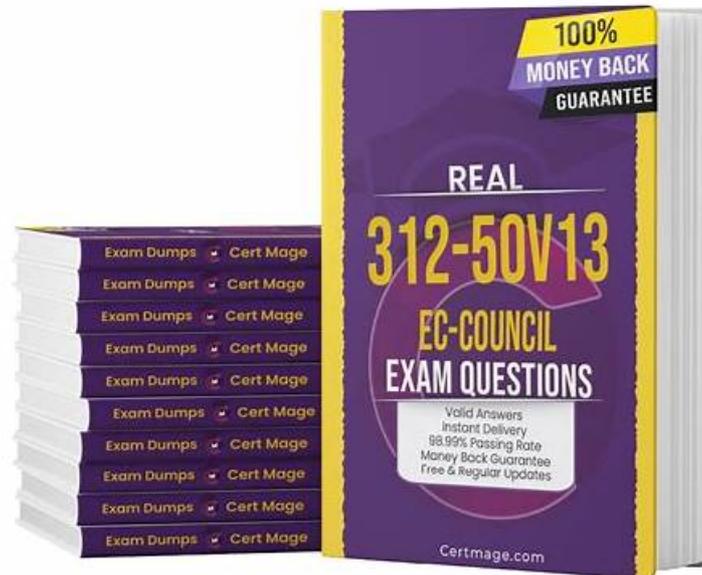


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## ECCouncil Certified Ethical Hacker Exam (CEHv13) Sample Questions (Q523-Q528):

### NEW QUESTION # 523

You are tasked to configure the DHCP server to lease the last 100 usable IP addresses in subnet to. 1.4.0/23. Which of the following IP addresses could be teased as a result of the new configuration?

- A. 10.1.4.156
- B. 210.1.55.200
- C. 10.1.5.200
- D. 10.1.4.254

**Answer: C**

Explanation:

<https://en.wikipedia.org/wiki/Subnetwork>

As we can see, we have an IP address of 10.1.4.0 with a subnet mask of /23. According to the question, we need to determine which IP address will be included in the range of the last 100 IP addresses.

The available addresses for hosts start with 10.1.4.1 and end with 10.1.5.254. Now you can clearly see that the last 100 addresses include the address 10.1.5.200.

#### NEW QUESTION # 524

A post-breach forensic investigation revealed that a known vulnerability in Apache Struts was to blame for the Equifax data breach that affected 143 million customers. A fix was available from the software vendor for several months prior to the intrusion. This is likely a failure in which of the following security processes?

- A. Patch management
- B. vendor risk management
- C. Secure deployment lifecycle
- D. Security awareness training

**Answer: A**

Explanation:

Patch management is that the method that helps acquire, test and install multiple patches (code changes) on existing applications and software tools on a pc, enabling systems to remain updated on existing patches and determining that patches are the suitable ones. Managing patches so becomes simple and simple.

Patch Management is usually done by software system firms as a part of their internal efforts to mend problems with the various versions of software system programs and also to assist analyze existing software system programs and discover any potential lack of security features or different upgrades.

Software patches help fix those problems that exist and are detected solely once the software's initial unharness. Patches mostly concern security while there are some patches that concern the particular practicality of programs as well.

#### NEW QUESTION # 525

During the enumeration phase, Lawrence performs banner grabbing to obtain information such as OS details and versions of services running. The service that he enumerated runs directly on TCP port 445.

Which of the following services is enumerated by Lawrence in this scenario?

- A. Server Message Block (SMB)
- B. Network File System (NFS)
- C. Remote procedure call (RPC)
- D. Telnet

**Answer: A**

Explanation:

Worker Message Block (SMB) is an organization document sharing and information texture convention. SMB is utilized by billions of gadgets in a different arrangement of working frameworks, including Windows, MacOS, iOS, Linux, and Android. Customers use SMB to get to information on workers. This permits sharing of records, unified information the board, and brought down capacity limit needs for cell phones.

Workers additionally use SMB as a feature of the Software-characterized Data Center for outstanding burdens like grouping and replication.

Since SMB is a far off record framework, it requires security from assaults where a Windows PC may be fooled into reaching a pernicious worker running inside a confided in organization or to a far off worker outside the organization edge. Firewall best practices and arrangements can upgrade security keeping malevolent traffic from leaving the PC or its organization.

For Windows customers and workers that don't have SMB shares, you can obstruct all inbound SMB traffic utilizing the Windows Defender Firewall to keep far off associations from malignant or bargained gadgets. In the Windows Defender Firewall, this incorporates the accompanying inbound principles.



Name	Scope	Action
File and Printer Sharing (SMB-In)	All	No
Netlogon Service (NP-In)	All	No
Remote Event Log Management (WMI-In)	All	No
Remote Spooler Management (NP-In)	All	No

You should also create a new blocking rule to override any other inbound firewall rules. Use the following suggested settings for any Windows clients or servers that do not host SMB Shares:

Name: Block all inbound SMB 445

Description: Blocks all inbound SMB TCP 445 traffic. Not to be applied to domain controllers or computers that host SMB shares.

Action: Block the connection

Programs: All

Remote Computers: Any

Protocol Type: TCP

Local Port: 445

Remote Port: Any

Profiles: All

Scope (Local IP Address): Any

Scope (Remote IP Address): Any

Edge Traversal: Block edge traversal

You must not globally block inbound SMB traffic to domain controllers or file servers. However, you can restrict access to them from trusted IP ranges and devices to lower their attack surface. They should also be restricted to Domain or Private firewall profiles and not allow Guest/Public traffic.

## NEW QUESTION # 526

Jake, a network security specialist, is trying to prevent network-level session hijacking attacks in his company.

While studying different types of such attacks, he learns about a technique where an attacker inserts their machine into the communication between a client and a server, making it seem like the packets are flowing through the original path. This technique is primarily used to reroute the packets. Which of the following types of network-level session hijacking attacks is Jake studying?

- A. Man-in-the-middle Attack Using Forged ICMP and ARP Spoofing
- B. TCP/IP Hijacking
- C. RST Hijacking
- D. UDP Hijacking

**Answer: A**

Explanation:

A man-in-the-middle attack using forged ICMP and ARP spoofing is a type of network-level session hijacking attack where an attacker inserts their machine into the communication between a client and a server, making it seem like the packets are flowing through the original path. This technique is primarily used to reroute the packets and intercept or modify the data exchanged between the client and the server.

A man-in-the-middle attack using forged ICMP and ARP spoofing works as follows1:

\* The attacker sends a forged ICMP redirect message to the client, claiming to be the gateway. The ICMP redirect message tells the client to use the attacker's machine as the next hop for reaching the server's network. The client updates its routing table accordingly and starts sending packets to the attacker's machine instead of the gateway.

\* The attacker also sends a forged ARP reply message to the client, claiming to be the server. The ARP reply message associates the attacker's MAC address with the server's IP address. The client updates its ARP cache accordingly and starts sending packets to the attacker's MAC address instead of the server's MAC address.

\* The attacker receives the packets from the client and forwards them to the server, acting as a relay. The attacker can also monitor, modify, or drop the packets as they wish. The server responds to the packets and sends them back to the attacker, who then forwards them to the client. The client and the server are unaware of the attacker's presence and think they are communicating directly with each other.

Therefore, Jake is studying a man-in-the-middle attack using forged ICMP and ARP spoofing, which is a type of network-level session hijacking attack.

References:

\* Network or TCP Session Hijacking | Ethical Hacking - GreyCampus

### NEW QUESTION # 527

As a cybersecurity analyst for SecureNet, you are performing a security assessment of a new mobile payment application. One of your primary concerns is the secure storage of customer data on the device. The application stores sensitive information such as credit card details and personal identification numbers (PINs) on the device. Which of the following measures would best ensure the security of this data?

- A. Enable GPS tracking for all devices using the app.
- B. Implement biometric authentication for app access.
- **C. Encrypt all sensitive data stored on the device.**
- D. Regularly update the app to the latest version.

**Answer: C**

Explanation:

Encrypting all sensitive data stored on the device is the best measure to ensure the security of this data, because it protects the data from unauthorized access or disclosure, even if the device is lost, stolen, or compromised. Encryption is a process of transforming data into an unreadable format using a secret key or algorithm. Only authorized parties who have the correct key or algorithm can decrypt and access the data.

Encryption can be applied to data at rest, such as files or databases, or data in transit, such as network traffic or messages.

Encryption can prevent attackers from stealing or tampering with the customer data stored on the device, such as credit card details and PINs, which can cause financial or identity fraud.

The other options are not as effective or sufficient as encryption for securing the customer data stored on the device. Implementing biometric authentication for app access may provide an additional layer of security, but it does not protect the data from being accessed by other means, such as malware, physical access, or backup extraction. Enabling GPS tracking for all devices using the app may help locate the device in case of loss or theft, but it does not prevent the data from being accessed by unauthorized parties, and it may also pose privacy risks. Regularly updating the app to the latest version may help fix bugs or vulnerabilities, but it does not guarantee the security of the data, especially if the app does not use encryption or other security features.

References:

Securely Storing Data | Security.org

Data Storage Security: 5 Best Practices to Secure Your Data

M9: Insecure Data Storage | OWASP Foundation

### NEW QUESTION # 528

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