

## Exam Questions 312-50v10

Certified Ethical Hacker v10

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#### NEW QUESTION 1

- (Exam Topic 1)

The Payment Card Industry Data Security Standard (PCI DSS) contains six different categories of control objectives. Each objective contains one or more requirements, which must be followed in order to achieve compliance. Which of the following requirements would best fit under the objective, "Implement strong access control measures"?

- A. Regularly test security systems and processes.
- B. Encrypt transmission of cardholder data across open, public networks.
- C. Assign a unique ID to each person with computer access.
- D. Use and regularly update anti-virus software on all systems commonly affected by malware.

**Answer: C**

#### NEW QUESTION 2

- (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 3

- (Exam Topic 1)

Chandler works as a pen-tester in an IT-firm in New York. As a part of detecting viruses in the systems, he uses a detection method where the anti-virus executes the malicious codes on a virtual machine to simulate CPU and memory activities.

Which type of virus detection method did Chandler use in this context?

- A. Heuristic Analysis
- B. Code Emulation
- C. Integrity checking
- D. Scanning

**Answer: B**

#### NEW QUESTION 4

- (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 5

- (Exam Topic 1)

You perform a scan of your company's network and discover that TCP port 123 is open. What services by default run on TCP port 123?

- A. Telnet
- B. POP3
- C. Network Time Protocol
- D. DNS

**Answer: C**

#### NEW QUESTION 6

- (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 7

- (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 8

- (Exam Topic 1)

Which component of IPsec performs protocol-level functions that are required to encrypt and decrypt the packets?

- A. Internet Key Exchange (IKE)
- B. Oakley
- C. IPsec Policy Agent
- D. IPsec driver

**Answer:** A

#### NEW QUESTION 9

- (Exam Topic 1)

Which of the following attacks exploits web age vulnerabilities that allow an attacker to force an unsuspecting user's browser to send malicious requests they did not intend?

- A. Command Injection Attacks
- B. File Injection Attack
- C. Cross-Site Request Forgery (CSRF)
- D. Hidden Field Manipulation Attack

**Answer:** C

#### NEW QUESTION 10

- (Exam Topic 1)

Which of the following DoS tools is used to attack target web applications by starvation of available sessions on the web server?

The tool keeps sessions at halt using never-ending POST transmissions and sending an arbitrarily large content-length header value.

- A. My Doom
- B. Astacheldraht
- C. R-U-Dead-Yet?(RUDY)
- D. LOIC

**Answer:** C

#### NEW QUESTION 10

- (Exam Topic 1)

Which is the first step followed by Vulnerability Scanners for scanning a network?

- A. TCP/UDP Port scanning
- B. Firewall detection
- C. OS Detection
- D. Checking if the remote host is alive

**Answer:** D

#### NEW QUESTION 14

- (Exam Topic 1)

You are attempting to run an Nmap port scan on a web server. Which of the following commands would result in a scan of common ports with the least amount of noise in order to evade IDS?

- A. nmap -A -Pn
- B. nmap -sP -p-65535-T5
- C. nmap -sT -O -T0
- D. nmap -A --host-timeout 99-T1

**Answer:** C

#### NEW QUESTION 19

- (Exam Topic 1)

You are the Network Admin, and you get a complaint that some of the websites are no longer accessible. You try to ping the servers and find them to be reachable. Then you type the IP address and then you try on the browser, and find it to be accessible. But they are not accessible when you try using the URL. What may be the problem?

- A. Traffic is Blocked on UDP Port 53
- B. Traffic is Blocked on UDP Port 80
- C. Traffic is Blocked on UDP Port 54
- D. Traffic is Blocked on UDP Port 80

Answer: A

#### NEW QUESTION 21

- (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 25

- (Exam Topic 1)

You are working as a Security Analyst in a company XYZ that owns the whole subnet range of 23.0.0.0/8 and 192.168.0.0/8.

While monitoring the data, you find a high number of outbound connections. You see that IP's owned by XYZ (Internal) and private IP's are communicating to a Single Public IP. Therefore, the Internal IP's are sending data to the Public IP.

After further analysis, you find out that this Public IP is a blacklisted IP, and the internal communicating devices are compromised.

What kind of attack does the above scenario depict?

- A. Botnet Attack
- B. Spear Phishing Attack
- C. Advanced Persistent Threats
- D. Rootkit Attack

Answer: A

#### NEW QUESTION 27

- (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 28

- (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 29

- (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 31

- (Exam Topic 1)

From the following table, identify the wrong answer in terms of Range (ft).

Standard	Range (ft)
802.11a	150-150
802.11b	150-150
802.11g	150-150
802.16(WiMax)	30 miles

A. 802.11b

- B. 802.11g
- C. 802.16(WiMax)
- D. 802.11a

**Answer:** D

### NEW QUESTION 33

- (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 36

- (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 38

- (Exam Topic 1)

When tuning security alerts, what is the best approach?

- A. Tune to avoid False positives and False Negatives
- B. Rise False positives Rise False Negatives
- C. Decrease the false positives
- D. Decrease False negatives

**Answer:** A

### NEW QUESTION 42

- (Exam Topic 1)

Alice encrypts her data using her public key PK and stores the encrypted data in the cloud. Which of the following attack scenarios will compromise the privacy of her data?

- A. None of these scenarios compromise the privacy of Alice's data
- B. Agent Andrew subpoenas Alice, forcing her to reveal her private ke
- C. However, the cloud server successfully resists Andrew's attempt to access the stored data
- D. Hacker Harry breaks into the cloud server and steals the encrypted data
- E. Alice also stores her private key in the cloud, and Harry breaks into the cloud server as before

**Answer:** D

### NEW QUESTION 43

- (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 44

- (Exam Topic 1)

Developers at your company are creating a web application which will be available for use by anyone on the Internet, The developers have taken the approach of implementing a Three-Tier Architecture for the web application. The developers are now asking you which network should the Presentation Tier (front- end web server) be placed in?

- A. isolated vlan network
- B. Mesh network
- C. DMZ network
- D. Internal network

**Answer:** A

**NEW QUESTION 46**

- (Exam Topic 1)

An attacker, using a rogue wireless AP, performed an MITM attack and injected an HTML code to embed a malicious applet in all HTTP connections.

When users accessed any page, the applet ran and exploited many machines. Which one of the following tools the hacker probably used to inject HTML code?

- A. Wireshark
- B. Ettercap
- C. Aircrack-ng
- D. Tcpdump

**Answer:** B

**NEW QUESTION 48**

- (Exam Topic 1)

Email is transmitted across the Internet using the Simple Mail Transport Protocol. SMTP does not encrypt email, leaving the information in the message vulnerable to being read by an unauthorized person. SMTP can upgrade a connection between two mail servers to use TLS. Email transmitted by SMTP over TLS is encrypted. What is the name of the command used by SMTP to transmit email over TLS?

- A. OPPORTUNISTICTLS STARTTLS
- B. FORCETLS
- C. UPGRADETLS

**Answer:** B

**NEW QUESTION 51**

- (Exam Topic 1)

You need a tool that can do network intrusion prevention and intrusion detection, function as a network sniffer, and record network activity, what tool would you most likely select?

- A. Nmap
- B. Cain & Abel
- C. Nessus
- D. Snort

**Answer:** D

**NEW QUESTION 55**

- (Exam Topic 1)

A virus that attempts to install itself inside the file it is infecting is called?

- A. Tunneling virus
- B. Cavity virus
- C. Polymorphic virus
- D. Stealth virus

**Answer:** B

**NEW QUESTION 58**

- (Exam Topic 1)

In which of the following password protection technique, 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 59**

- (Exam Topic 1)

Identify the UDP port that Network Time Protocol (NTP) uses as its primary means of communication?

- A. 123
- B. 161
- C. 69
- D. 113

**Answer:** A

**NEW QUESTION 64**

- (Exam Topic 1)

Bob, a network administrator at BigUniversity, realized that some students are connecting their notebooks in the wired network to have Internet access. In the university campus, there are many Ethernet ports available for professors and authorized visitors but not for students.



He identified this when the IDS alerted for malware activities in the network. What should Bob do to avoid this problem?

- A. Disable unused ports in the switches
- B. Separate students in a different VLAN
- C. Use the 802.1x protocol
- D. Ask students to use the wireless network

**Answer:** C

#### NEW QUESTION 67

- (Exam Topic 1)

If you want only to scan fewer ports than the default scan using Nmap tool, which option would you use?

- A. -sP
- B. -P
- C. -r
- D. -F

**Answer:** B

#### NEW QUESTION 71

- (Exam Topic 1)

Which of the following statements is TRUE?

- A. Sniffers operate on Layer 2 of the OSI model
- B. Sniffers operate on Layer 3 of the OSI model
- C. Sniffers operate on both Layer 2 & Layer 3 of the OSI model.
- D. Sniffers operate on the Layer 1 of the OSI model.

**Answer:** A

#### NEW QUESTION 72

- (Exam Topic 1)

These hackers have limited or no training and know how to use only basic techniques or tools. What kind of hackers are we talking about?

- A. Black-Hat Hackers A
- B. Script Kiddies
- C. White-Hat Hackers
- D. Gray-Hat Hacker

**Answer:** C

#### NEW QUESTION 74

- (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 75

- (Exam Topic 1)

Bob, a system administrator at TPNQM SA, concluded one day that a DMZ is not needed if he properly configures the firewall to allow access just to servers/ports, which can have direct internet access, and block the access to workstations.

Bob also concluded that DMZ makes sense just when a stateful firewall is available, which is not the case of TPNQM SA.

In this context, what can you say?

- A. Bob can be right since DMZ does not make sense when combined with stateless firewalls
- B. Bob is partially right
- C. He does not need to separate networks if he can create rules by destination IPs, one by one
- D. Bob is totally wrong
- E. DMZ is always relevant when the company has internet servers and workstations
- F. Bob is partially right
- G. DMZ does not make sense when a stateless firewall is available

**Answer:** C

#### NEW QUESTION 77

- (Exam Topic 1)

Which Nmap option would you use if you were not concerned about being detected and wanted to perform a very fast scan?

- A. -T0
- B. -T5
- C. -O
- D. -A

**Answer:** B

#### NEW QUESTION 78

- (Exam Topic 1)

Bob finished a C programming course and created a small C application to monitor the network traffic and produce alerts when any origin sends “many” IP packets, based on the average number of packets sent by all origins and using some thresholds.

In concept, the solution developed by Bob is actually:

- A. Just a network monitoring tool
- B. A signature-based IDS
- C. A hybrid IDS
- D. A behavior-based IDS

**Answer:** A

#### NEW QUESTION 80

- (Exam Topic 2)

Which tool would be used to collect wireless packet data?

- A. NetStumbler
- B. John the Ripper
- C. Nessus
- D. Netcat

**Answer:** A

#### NEW QUESTION 82

- (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 86

- (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 87

- (Exam Topic 2)

Which of the following is a preventive control?

- A. Smart card authentication
- B. Security policy
- C. Audit trail
- D. Continuity of operations plan

**Answer:** A

#### NEW QUESTION 89

- (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 94

- (Exam Topic 2)

Which of the following techniques will identify if computer files have been changed?

- A. Network sniffing
- B. Permission sets
- C. Integrity checking hashes
- D. Firewall alerts

**Answer:** C

#### NEW QUESTION 98

- (Exam Topic 2)

A security consultant decides to use multiple layers of anti-virus defense, such as end user desktop anti-virus and E-mail gateway. This approach can be used to mitigate which kind of attack?

- A. Forensic attack
- B. ARP spoofing attack
- C. Social engineering attack
- D. Scanning attack

**Answer:** C

#### NEW QUESTION 100

- (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 104

- (Exam Topic 2)

Which of the following is a hashing algorithm?

- A. MD5
- B. PGP
- C. DES
- D. ROT13

**Answer:** A

#### NEW QUESTION 107

- (Exam Topic 2)

Which protocol and port number might be needed in order to send log messages to a log analysis tool that resides behind a firewall?

- A. UDP 123
- B. UDP 541
- C. UDP 514
- D. UDP 415

**Answer:** C

#### NEW QUESTION 108

- (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 112

- (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 115

- (Exam Topic 2)

A hacker, who posed as a heating and air conditioning specialist, was able to install a sniffer program in a switched environment network. Which attack could the hacker use to sniff all of the packets in the network?

- A. Fraggie
- B. MAC Flood
- C. Smurf
- D. Tear Drop

**Answer:** B

#### NEW QUESTION 120

- (Exam Topic 2)

While conducting a penetration test, the tester determines that there is a firewall between the tester's machine and the target machine. The firewall is only monitoring TCP handshaking of packets at the session layer of the OSI model. Which type of firewall is the tester trying to traverse?

- A. Packet filtering firewall
- B. Application-level firewall
- C. Circuit-level gateway firewall
- D. Stateful multilayer inspection firewall

**Answer:** C

#### NEW QUESTION 124

- (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 126

- (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 130

- (Exam Topic 2)

A hacker is attempting to use nslookup to query Domain Name Service (DNS). The hacker uses the nslookup interactive mode for the search. Which command should the hacker type into the command shell to request the appropriate records?

- A. Locate type=ns
- B. Request type=ns
- C. Set type=ns
- D. Transfer type=ns

**Answer:** C

#### NEW QUESTION 134

- (Exam Topic 2)

One advantage of an application-level firewall is the ability to

- A. filter packets at the network level.
- B. filter specific commands, such as http:post.
- C. retain state information for each packet.
- D. monitor tcp handshaking.

**Answer:** B

#### NEW QUESTION 136

- (Exam Topic 2)

When using Wireshark to acquire packet capture on a network, which device would enable the capture of all traffic on the wire?

- A. Network tap
- B. Layer 3 switch
- C. Network bridge
- D. Application firewall

**Answer:** A

#### NEW QUESTION 138

- (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 140

- (Exam Topic 2)

What is the main reason the use of a stored biometric is vulnerable to an attack?

- A. The digital representation of the biometric might not be unique, even if the physical characteristic is unique.
- B. Authentication using a stored biometric compares a copy to a copy instead of the original to a copy.
- C. A stored biometric is no longer "something you are" and instead becomes "something you have".
- D. A stored biometric can be stolen and used by an attacker to impersonate the individual identified by the biometric.

**Answer:** D

#### NEW QUESTION 143

- (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 144

- (Exam Topic 2)

If the final set of security controls does not eliminate all risk in a system, what could be done next?

- A. Continue to apply controls until there is zero risk.
- B. Ignore any remaining risk.
- C. If the residual risk is low enough, it can be accepted.
- D. Remove current controls since they are not completely effective.

**Answer:**

C

#### NEW QUESTION 146

- (Exam Topic 2)

Which security control role does encryption meet?

- A. Preventative
- B. Detective
- C. Offensive
- D. Defensive

**Answer:** A

#### NEW QUESTION 149

- (Exam Topic 2)

Which type of antenna is used in wireless communication?

- A. Omnidirectional
- B. Parabolic
- C. Uni-directional
- D. Bi-directional

**Answer:** A

#### NEW QUESTION 154

- (Exam Topic 2)

How is sniffing broadly categorized?

- A. Active and passive
- B. Broadcast and unicast
- C. Unmanaged and managed
- D. Filtered and unfiltered

**Answer:** A

#### NEW QUESTION 155

- (Exam Topic 2)

What type of OS fingerprinting technique sends specially crafted packets to the remote OS and analyzes the received response?

- A. Passive
- B. Reflective
- C. Active
- D. Distributive

**Answer:** C

#### NEW QUESTION 157

- (Exam Topic 2)

Which of the following conditions must be given to allow a tester to exploit a Cross-Site Request Forgery (CSRF) vulnerable web application?

- A. The victim user must open the malicious link with an Internet Explorer prior to version 8.
- B. The session cookies generated by the application do not have the HttpOnly flag set.
- C. The victim user must open the malicious link with a Firefox prior to version 3.
- D. The web application should not use random tokens.

**Answer:** D

#### NEW QUESTION 162

- (Exam Topic 2)

A company firewall engineer has configured a new DMZ to allow public systems to be located away from the internal network. The engineer has three security zones set:

```
Untrust (Internet) - (Remote network = 217.77.88.0/24)
DMZ (DMZ) - (11.12.13.0/24)
Trust (Intranet) - (192.168.0.0/24)
```

The engineer wants to configure remote desktop access from a fixed IP on the remote network to a remote desktop server in the DMZ. Which rule would best fit this requirement?

- A. Permit 217.77.88.0/24 11.12.13.0/24 RDP 3389
- B. Permit 217.77.88.12 11.12.13.50 RDP 3389
- C. Permit 217.77.88.12 11.12.13.0/24 RDP 3389
- D. Permit 217.77.88.0/24 11.12.13.50 RDP 3389

**Answer:** B

#### NEW QUESTION 167

- (Exam Topic 2)

How does an operating system protect the passwords used for account logins?

- A. The operating system performs a one-way hash of the passwords.
- B. The operating system stores the passwords in a secret file that users cannot find.
- C. The operating system encrypts the passwords, and decrypts them when needed.
- D. The operating system stores all passwords in a protected segment of non-volatile memory.

**Answer:** A

#### NEW QUESTION 170

- (Exam Topic 2)

What is the name of the international standard that establishes a baseline level of confidence in the security functionality of IT products by providing a set of requirements for evaluation?

- A. Blue Book
- B. ISO 26029
- C. Common Criteria
- D. The Wassenaar Agreement

**Answer:** C

#### NEW QUESTION 172

- (Exam Topic 2)

How can rainbow tables be defeated?

- A. Password salting
- B. Use of non-dictionary words
- C. All uppercase character passwords
- D. Lockout accounts under brute force password cracking attempts

**Answer:** A

#### NEW QUESTION 174

- (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 177

- (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 179

- (Exam Topic 2)

Which of the following cryptography attack methods is usually performed without the use of a computer?

- A. Ciphertext-only attack
- B. Chosen key attack
- C. Rubber hose attack
- D. Rainbow table attack

**Answer:** C

#### NEW QUESTION 183

- (Exam Topic 2)

A network administrator received an administrative alert at 3:00 a.m. from the intrusion detection system. The alert was generated because a large number of packets were coming into the network over ports 20 and 21. During analysis, there were no signs of attack on the FTP servers. How should the administrator classify this situation?

- A. True negatives
- B. False negatives
- C. True positives
- D. False positives

**Answer:** D

#### NEW QUESTION 185

- (Exam Topic 2)

Windows file servers commonly hold sensitive files, databases, passwords and more. Which of the following choices would be a common vulnerability that usually exposes them?

- A. Cross-site scripting
- B. SQL injection
- C. Missing patches
- D. CRLF injection

**Answer:** C

#### NEW QUESTION 186

- (Exam Topic 2)

During a penetration test, a tester finds a target that is running MS SQL 2000 with default credentials. The tester assumes that the service is running with Local System account. How can this weakness be exploited to access the system?

- A. Using the Metasploit psexec module setting the SA / Admin credential
- B. Invoking the stored procedure xp\_shell to spawn a Windows command shell
- C. Invoking the stored procedure cmd\_shell to spawn a Windows command shell
- D. Invoking the stored procedure xp\_cmdshell to spawn a Windows command shell

**Answer:** D

#### NEW QUESTION 188

- (Exam Topic 2)

Which of the following is a detective control?

- A. Smart card authentication
- B. Security policy
- C. Audit trail
- D. Continuity of operations plan

**Answer:** C

#### NEW QUESTION 193

- (Exam Topic 2)

Which tool is used to automate SQL injections and exploit a database by forcing a given web application to connect to another database controlled by a hacker?

- A. DataThief
- B. NetCat
- C. Cain and Abel
- D. SQLInjector

**Answer:** A

#### NEW QUESTION 198

- (Exam Topic 2)

Pentest results indicate that voice over IP traffic is traversing a network. Which of the following tools will decode a packet capture and extract the voice conversations?

- A. Cain
- B. John the Ripper
- C. Nikto
- D. Hping

**Answer:** A

#### NEW QUESTION 203

- (Exam Topic 2)

One way to defeat a multi-level security solution is to leak data via

- A. a bypass regulator.
- B. steganography.
- C. a covert channel.
- D. asymmetric routing.

**Answer:** C

#### NEW QUESTION 206

- (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 207

- (Exam Topic 2)

What is the broadcast address for the subnet 190.86.168.0/22?

- A. 190.86.168.255
- B. 190.86.255.255
- C. 190.86.171.255
- D. 190.86.169.255

**Answer:** C

#### NEW QUESTION 212

- (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 214

- (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 218

- (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 222

- (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 227

- (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 231

- (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 234

- (Exam Topic 2)

A covert channel is a channel that

- A. transfers information over, within a computer system, or network that is outside of the security policy.
- B. transfers information over, within a computer system, or network that is within the security policy.
- C. transfers information via a communication path within a computer system, or network for transfer of data.
- D. transfers information over, within a computer system, or network that is encrypted.

**Answer:** A

#### NEW QUESTION 236

- (Exam Topic 2)

What statement is true regarding LM hashes?

- A. LM hashes consist in 48 hexadecimal characters.
- B. LM hashes are based on AES128 cryptographic standard.
- C. Uppercase characters in the password are converted to lowercase.
- D. LM hashes are not generated when the password length exceeds 15 characters.

**Answer:** D

#### NEW QUESTION 237

- (Exam Topic 3)

An ethical hacker for a large security research firm performs penetration tests, vulnerability tests, and risk assessments. A friend recently started a company and asks the hacker to perform a penetration test and vulnerability assessment of the new company as a favor. What should the hacker's next step be before starting work on this job?

- A. Start by foot printing the network and mapping out a plan of attack.
- B. Ask the employer for authorization to perform the work outside the company.
- C. Begin the reconnaissance phase with passive information gathering and then move into active information gathering.
- D. Use social engineering techniques on the friend's employees to help identify areas that may be susceptible to attack.

**Answer:** B

#### NEW QUESTION 240

- (Exam Topic 3)

If an e-commerce site was put into a live environment and the programmers failed to remove the secret entry point that was used during the application development, what is this secret entry point known as?

- A. SDLC process
- B. Honey pot
- C. SQL injection
- D. Trap door

**Answer:** D

#### NEW QUESTION 243

- (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 245

- (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 248

- (Exam Topic 3)

Which of the following network attacks relies on sending an abnormally large packet size that exceeds TCP/IP specifications?

- A. Ping of death
- B. SYN flooding
- C. TCP hijacking
- D. Smurf attack

**Answer:** A

#### NEW QUESTION 250

- (Exam Topic 3)

Which of the following is an advantage of utilizing security testing methodologies to conduct a security audit?

- A. They provide a repeatable framework.
- B. Anyone can run the command line scripts.
- C. They are available at low cost.
- D. They are subject to government regulation.

**Answer:** A

#### NEW QUESTION 252

- (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 254

- (Exam Topic 3)

SOAP services use which technology to format information?

- A. SATA
- B. PCI
- C. XML
- D. ISDN

**Answer:** C

#### NEW QUESTION 259

- (Exam Topic 3)

Which security strategy requires using several, varying methods to protect IT systems against attacks?

- A. Defense in depth
- B. Three-way handshake
- C. Covert channels
- D. Exponential backoff algorithm

**Answer:** A

#### NEW QUESTION 263

- (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 265

- (Exam Topic 3)

In the OSI model, where does PPTP encryption take place?

- A. Transport layer
- B. Application layer
- C. Data link layer
- D. Network layer

**Answer:** C

#### NEW QUESTION 270

- (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 272

- (Exam Topic 3)

Which of the following network attacks takes advantage of weaknesses in the fragment reassembly functionality of the TCP/IP protocol stack?

- A. Teardrop
- B. SYN flood
- C. Smurf attack
- D. Ping of death

**Answer:** A

#### NEW QUESTION 274

- (Exam Topic 3)

Company A and Company B have just merged and each has its own Public Key Infrastructure (PKI). What must the Certificate Authorities (CAs) establish so that the private PKIs for Company A and Company B trust one another and each private PKI can validate digital certificates from the other company?

- A. Poly key exchange
- B. Cross certification
- C. Poly key reference
- D. Cross-site exchange

**Answer:** B

#### NEW QUESTION 279

- (Exam Topic 3)

An attacker sniffs encrypted traffic from the network and is subsequently able to decrypt it. The attacker can now use which cryptanalytic technique to attempt to discover the encryption key?

- A. Birthday attack
- B. Plaintext attack
- C. Meet in the middle attack
- D. Chosen ciphertext attack

**Answer:** D

#### NEW QUESTION 281

- (Exam Topic 3)

An IT security engineer notices that the company's web server is currently being hacked. What should the engineer do next?

- A. Unplug the network connection on the company's web server.
- B. Determine the origin of the attack and launch a counterattack.
- C. Record as much information as possible from the attack.
- D. Perform a system restart on the company's web server.

**Answer:** C

#### NEW QUESTION 283

- (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 284

- (Exam Topic 3)

Which of the following can take an arbitrary length of input and produce a message digest output of 160 bit?

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

**Answer:** A

#### NEW QUESTION 289

- (Exam Topic 3)

Which type of security document is written with specific step-by-step details?

- A. Process
- B. Procedure
- C. Policy
- D. Paradigm

**Answer:** B

#### NEW QUESTION 292

- (Exam Topic 3)

A certified ethical hacker (CEH) completed a penetration test of the main headquarters of a company almost two months ago, but has yet to get paid. The customer is suffering from financial problems, and the CEH is worried that the company will go out of business and end up not paying. What actions should the CEH take?

- A. Threaten to publish the penetration test results if not paid.
- B. Follow proper legal procedures against the company to request payment.
- C. Tell other customers of the financial problems with payments from this company.
- D. Exploit some of the vulnerabilities found on the company webserver to deface it.

**Answer:** B

#### NEW QUESTION 295

- (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 298

- (Exam Topic 4)

What is a "Collision attack" in cryptography?

- A. Collision attacks try to find two inputs producing the same hash.



- B. Collision attacks try to break the hash into two parts, with the same bytes in each part to get the private key.
- C. Collision attacks try to get the public key.
- D. Collision attacks try to break the hash into three parts to get the plaintext value.

**Answer:** A

**Explanation:**

A Collision Attack is an attempt to find two input strings of a hash function that produce the same hash result. References: <https://learncryptography.com/hash-functions/hash-collision-attack>

**NEW QUESTION 302**

- (Exam Topic 4)

When you are collecting information to perform a data analysis, Google commands are very useful to find sensitive information and files. These files may contain information about passwords, system functions, or documentation.

What command will help you to search files using Google as a search engine?

- A. site: target.com filetype:xls username password email
- B. inurl: target.com filename:xls username password email
- C. domain: target.com archive:xls username password email
- D. site: target.com file:xls username password email

**Answer:** A

**Explanation:**

If you include site: in your query, Google will restrict your search results to the site or domain you specify. If you include filetype:suffix in your query, Google will restrict the results to pages whose names end in suffix. For example, [ web page evaluation checklist filetype:pdf ] will return Adobe Acrobat pdf files that match the terms “web,” “page,” “evaluation,” and “checklist.”

References:

[http://www.googleguide.com/advanced\\_operators\\_reference.html](http://www.googleguide.com/advanced_operators_reference.html)

**NEW QUESTION 304**

- (Exam Topic 4)

During a blackbox pen test you attempt to pass IRC traffic over port 80/TCP from a compromised web enabled host. The traffic gets blocked; however, outbound HTTP traffic is unimpeded.

What type of firewall is inspecting outbound traffic?

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

**Answer:** A

**Explanation:**

An application firewall is an enhanced firewall that limits access by applications to the operating system (OS) of a computer. Conventional firewalls merely control the flow of data to and from the central processing unit (CPU), examining each packet and determining whether or not to forward it toward a particular destination. An application firewall offers additional protection by controlling the execution of files or the handling of data by specific applications.

References:

<http://searchsoftwarequality.techtarget.com/definition/application-firewall>

**NEW QUESTION 305**

- (Exam Topic 4)

You have compromised a server and successfully gained a root access. You want to pivot and pass traffic undetected over the network and evade any possible Intrusion Detection System.

What is the best approach?

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

**Answer:** A

**Explanation:**

Cryptcat enables us to communicate between two systems and encrypts the communication between them with twofish.

References:

<http://null-byte.wonderhowto.com/how-to/hack-like-pro-create-nearly-undetectable-backdoor-with-cryptcat-014>

**NEW QUESTION 306**

- (Exam Topic 4)

Which of the following is not a Bluetooth attack?

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

**Answer:** A



#### NEW QUESTION 311

- (Exam Topic 4)

You've gained physical access to a Windows 2008 R2 server which has an accessible disc drive. When you attempt to boot the server and log in, you are unable to guess the password. In your tool kit you have an Ubuntu 9.10 Linux LiveCD. Which Linux based tool has the ability to change any user's password or to activate disabled Windows accounts?

- A. CHNTPW
- B. Cain & Abel
- C. SET
- D. John the Ripper

**Answer:** A

#### Explanation:

chntpw is a software utility for resetting or blanking local passwords used by Windows NT, 2000, XP, Vista, 7, 8 and 8.1. It does this by editing the SAM database where Windows stores password hashes.

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

#### NEW QUESTION 315

- (Exam Topic 4)

What is the best description of SQL Injection?

- A. It is an attack used to gain unauthorized access to a database.
- B. It is an attack used to modify code in an application.
- C. It is a Man-in-the-Middle attack between your SQL Server and Web App Server.
- D. It is a Denial of Service Attack.

**Answer:** A

#### Explanation:

SQL injection is a code injection technique, used to attack data-driven applications, in which malicious SQL statements are inserted into an entry field for execution (e.g. to dump the database contents to the attacker).

References: [https://en.wikipedia.org/wiki/SQL\\_injection](https://en.wikipedia.org/wiki/SQL_injection)

#### NEW QUESTION 320

- (Exam Topic 4)

You are using NMAP to resolve domain names into IP addresses for a ping sweep later.

Which of the following commands looks for IP addresses?

- A. >host -t a hackeddomain.com
- B. >host -t soa hackeddomain.com
- C. >host -t ns hackeddomain.com
- D. >host -t AXFR hackeddomain.com

**Answer:** A

#### Explanation:

The A record is an Address record. It returns a 32-bit IPv4 address, most commonly used to map hostnames to an IP address of the host.

References: [https://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](https://en.wikipedia.org/wiki/List_of_DNS_record_types)

#### NEW QUESTION 323

- (Exam Topic 4)

When you are getting information about a web server, it is very important to know the HTTP Methods (GET, POST, HEAD, PUT, DELETE, TRACE) that are available because there are two critical methods (PUT and DELETE). PUT can upload a file to the server and DELETE can delete a file from the server. You can detect all these methods (GET, POST, HEAD, PUT, DELETE, TRACE) using NMAP script engine.

What nmap script will help you with this task?

- A. http-methods
- B. http enum
- C. http-headers
- D. http-git

**Answer:** A

#### Explanation:

You can check HTTP method vulnerability using NMAP. Example: #nmap --script=http-methods.nse 192.168.0.25

References: <http://solutionsatexperts.com/http-method-vulnerability-check-using-nmap/>

#### NEW QUESTION 327

- (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 330**

- (Exam Topic 4)

In 2007, this wireless security algorithm was rendered useless by capturing packets and discovering the passkey in a matter of seconds. This security flaw led to a network invasion of TJ Maxx and data theft through a technique known as wardriving.

Which Algorithm is this referring to?

- A. Wired Equivalent Privacy (WEP)
- B. Wi-Fi Protected Access (WPA)
- C. Wi-Fi Protected Access 2 (WPA2)
- D. Temporal Key Integrity Protocol (TKIP)

**Answer:** A

**Explanation:**

WEP is the currently most used protocol for securing 802.11 networks, also called wireless lans or wlans. In 2007, a new attack on WEP, the PTW attack, was discovered, which allows an attacker to recover the secret key in less than 60 seconds in some cases.

Note: Wardriving is the act of searching for Wi-Fi wireless networks by a person in a moving vehicle, using a portable computer, smartphone or personal digital assistant (PDA).

References: <https://events.ccc.de/camp/2007/Fahrplan/events/1943.en.html>

**NEW QUESTION 334**

- (Exam Topic 4)

This tool is an 802.11 WEP and WPA-PSK keys cracking program that can recover keys once enough data packets have been captured. It implements the standard FMS attack along with some optimizations like KoreK attacks, as well as the PTW attack, thus making the attack much faster compared to other WEP cracking tools.

Which of the following tools is being described?

- A. Aircrack-ng
- B. Aircrack
- C. WLAN-crack
- D. wificracker

**Answer:** A

**Explanation:**

Aircrack-ng is a complete suite of tools to assess WiFi network security.

The default cracking method of Aircrack-ng is PTW, but Aircrack-ng can also use the FMS/KoreK method, which incorporates various statistical attacks to discover the WEP key and uses these in combination with brute forcing.

References:

<http://www.aircrack-ng.org/doku.php?id=aircrack-ng>

**NEW QUESTION 336**

- (Exam Topic 4)

Which tool allows analysts and pen testers to examine links between data using graphs and link analysis?

- A. Maltego
- B. Cain & Abel
- C. Metasploit
- D. Wireshark

**Answer:** A

**Explanation:**

Maltego is proprietary software used for open-source intelligence and forensics, developed by Paterva. Maltego focuses on providing a library of transforms for discovery of data from open sources, and visualizing that information in a graph format, suitable for link analysis and data mining.

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

**NEW QUESTION 341**

- (Exam Topic 4)

Initiating an attack against targeted businesses and organizations, threat actors compromise a carefully selected website by inserting an exploit resulting in malware infection. The attackers run exploits on well-known and trusted sites likely to be visited by their targeted victims. Aside from carefully choosing sites to compromise, these attacks are known to incorporate zero-day exploits that target unpatched vulnerabilities. Thus, the targeted entities are left with little or no defense against these exploits.

What type of attack is outlined in the scenario?

- A. Watering Hole Attack
- B. Heartbleed Attack
- C. Shellshock Attack
- D. Spear Phishing Attack

**Answer:** A

**Explanation:**

Watering Hole is a computer attack strategy, in which the victim is a particular group (organization, industry, or region). In this attack, the attacker guesses or observes which websites the group often uses and infects one or more of them with malware. Eventually, some member of the targeted group gets infected.

**NEW QUESTION 345**

- (Exam Topic 4)

A regional bank hires your company to perform a security assessment on their network after a recent data breach. The attacker was able to steal financial data from the bank by compromising only a single server.

Based on this information, what should be one of your key recommendations to the bank?

- A. Place a front-end web server in a demilitarized zone that only handles external web traffic
- B. Require all employees to change their passwords immediately
- C. Move the financial data to another server on the same IP subnet
- D. Issue new certificates to the web servers from the root certificate authority

**Answer:** A

**Explanation:**

A DMZ or demilitarized zone (sometimes referred to as a perimeter network) is a physical or logical subnetwork that contains and exposes an organization's external-facing services to a larger and untrusted network, usually the Internet. The purpose of a DMZ is to add an additional layer of security to an organization's local area network (LAN); an external network node only has direct access to equipment in the DMZ, rather than any other part of the network.

References: [https://en.wikipedia.org/wiki/DMZ\\_\(computing\)](https://en.wikipedia.org/wiki/DMZ_(computing))

**NEW QUESTION 350**

- (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 354**

- (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 355**

- (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 357**

- (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 360**

- (Exam Topic 4)

An attacker has installed a RAT on a host. The attacker wants to ensure that when a user attempts to go to "www.MyPersonalBank.com", that the user is directed to a phishing site.

Which file does the attacker need to modify?

- A. Hosts
- B. Sudoers
- C. Boot.ini
- D. Networks

**Answer:** A

**Explanation:**

The hosts file is a computer file used by an operating system to map hostnames to IP addresses. The hosts file contains lines of text consisting of an IP address in the first text field followed by one or more host names.

References: [https://en.wikipedia.org/wiki/Hosts\\_\(file\)](https://en.wikipedia.org/wiki/Hosts_(file))

**NEW QUESTION 364**

- (Exam Topic 4)

An attacker changes the profile information of a particular user (victim) on the target website. The attacker uses this string to update the victim's profile to a text file and then submit the data to the attacker's database.

<iframe src="http://www.vulnweb.com/updateif.php" style="display:none"></iframe>

What is this type of attack (that can use either HTTP GET or HTTP POST) called?

- A. Cross-Site Request Forgery
- B. Cross-Site Scripting
- C. SQL Injection
- D. Browser Hacking

**Answer:** A

**Explanation:**

Cross-site request forgery, also known as one-click attack or session riding and abbreviated as CSRF (sometimes pronounced sea-surf) or XSRF, is a type of malicious exploit of a website where unauthorized commands are transmitted from a user that the website trusts.

Different HTTP request methods, such as GET and POST, have different level of susceptibility to CSRF attacks and require different levels of protection due to their different handling by web browsers.

References: [https://en.wikipedia.org/wiki/Cross-site\\_request\\_forgery](https://en.wikipedia.org/wiki/Cross-site_request_forgery)

**NEW QUESTION 365**

- (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 366**

- (Exam Topic 4)

The configuration allows a wired or wireless network interface controller to pass all traffic it receives to the central processing unit (CPU), rather than passing only the frames that the controller is intended to receive.

Which of the following is being described?

- A. promiscuous mode
- B. port forwarding
- C. multi-cast mode
- D. WEM

**Answer:** A

**Explanation:**

Promiscuous mode refers to the special mode of Ethernet hardware, in particular network interface cards (NICs), that allows a NIC to receive all traffic on the network, even if it is not addressed to this NIC. By default, a NIC ignores all traffic that is not addressed to it, which is done by comparing the destination address of the Ethernet packet with the hardware address (a.k.a. MAC) of the device. While this makes perfect sense for networking, non-promiscuous mode makes it difficult to use network monitoring and analysis software for diagnosing connectivity issues or traffic accounting.

References: <https://www.tamos.com/htmlhelp/monitoring/>

**NEW QUESTION 368**

- (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 371**

- (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 376**

- (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 380**

- (Exam Topic 5)

Internet Protocol Security IPSec is actually a suite of protocols. Each protocol within the suite provides different functionality. Collective IPSec does everything except.

- A. Protect the payload and the headers



- B. Authenticate
- C. Encrypt
- D. Work at the Data Link Layer

**Answer:** D

#### NEW QUESTION 382

- (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 386

- (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 388

- (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 392

- (Exam Topic 5)

To maintain compliance with regulatory requirements, a security audit of the systems on a network must be performed to determine their compliance with security policies. Which one of the following tools would most likely be used in such an audit?

- A. Vulnerability scanner
- B. Protocol analyzer
- C. Port scanner
- D. Intrusion Detection System

**Answer:** A

#### Explanation:

A vulnerability scanner is a computer program designed to assess computers, computer systems, networks or applications for weaknesses.

They can be run either as part of vulnerability management by those tasked with protecting systems - or by black hat attackers looking to gain unauthorized access.

References: [https://en.wikipedia.org/wiki/Vulnerability\\_scanner](https://en.wikipedia.org/wiki/Vulnerability_scanner)

#### NEW QUESTION 395

- (Exam Topic 5)

Websites and web portals that provide web services commonly use the Simple Object Access Protocol SOAP. Which of the following is an incorrect definition or characteristics in the protocol?

- A. Based on XML
- B. Provides a structured model for messaging
- C. Exchanges data between web services
- D. Only compatible with the application protocol HTTP

**Answer:** D



#### NEW QUESTION 399

- (Exam Topic 5)

Rebecca commonly sees an error on her Windows system that states that a Data Execution Prevention (DEP) error has taken place. Which of the following is most likely taking place?

- A. A race condition is being exploited, and the operating system is containing the malicious process.
- B. A page fault is occurring, which forces the operating system to write data from the hard drive.
- C. Malware is executing in either ROM or a cache memory area.
- D. Malicious code is attempting to execute instruction in a non-executable memory region.

**Answer:** D

#### NEW QUESTION 400

- (Exam Topic 5)

Which of the following tools is used to detect wireless LANs using the 802.11a/b/g/n WLAN standards on a linux platform?

- A. Kismet
- B. Nessus
- C. Netstumbler
- D. Abel

**Answer:** A

#### Explanation:

Kismet is a network detector, packet sniffer, and intrusion detection system for 802.11 wireless LANs. Kismet will work with any wireless card which supports raw monitoring mode, and can sniff 802.11a, 802.11b, 802.11g, and 802.11n traffic. The program runs under Linux, FreeBSD, NetBSD, OpenBSD, and Mac OS X.

References: [https://en.wikipedia.org/wiki/Kismet\\_\(software\)](https://en.wikipedia.org/wiki/Kismet_(software))

#### NEW QUESTION 405

- (Exam Topic 5)

Which method of password cracking takes the most time and effort?

- A. Brute force
- B. Rainbow tables
- C. Dictionary attack
- D. Shoulder surfing

**Answer:** A

#### Explanation:

Brute-force cracking, in which a computer tries every possible key or password until it succeeds, is typically very time consuming. More common methods of password cracking, such as dictionary attacks, pattern checking, word list substitution, etc. attempt to reduce the number of trials required and will usually be attempted before brute force.

References: [https://en.wikipedia.org/wiki/Password\\_cracking](https://en.wikipedia.org/wiki/Password_cracking)

#### NEW QUESTION 407

- (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 409

- (Exam Topic 5)

The network in ABC company is using the network address 192.168.1.64 with mask 255.255.255.192. In the network the servers are in the addresses 192.168.1.122, 192.168.1.123 and 192.168.1.124.

An attacker is trying to find those servers but he cannot see them in his scanning. The command he is using is: nmap 192.168.1.64/28.

Why he cannot see the servers?

- A. The network must be down and the nmap command and IP address are ok.
- B. He needs to add the command ""ip address"" just before the IP address.
- C. He is scanning from 192.168.1.64 to 192.168.1.78 because of the mask /28 and the servers are not in that range.
- D. He needs to change the address to 192.168.1.0 with the same mask.

**Answer:** C

#### NEW QUESTION 414

- (Exam Topic 5)

Which of the following statements regarding ethical hacking is incorrect?

- A. Ethical hackers should never use tools or methods that have the potential of exploiting vulnerabilities in an organization's systems.
- B. Testing should be remotely performed offsite.
- C. An organization should use ethical hackers who do not sell vendor hardware/software or other consulting services.
- D. Ethical hacking should not involve writing to or modifying the target systems.

**Answer:** A

#### Explanation:

Ethical hackers use the same methods and techniques, including those that have the potential of exploiting vulnerabilities, to test and bypass a system's defenses as their less-principled counterparts, but rather than taking advantage of any vulnerabilities found, they document them and provide actionable advice on how to fix them so the organization can improve its overall security.

References:

<http://searchsecurity.techtarget.com/definition/ethical-hacker>

#### NEW QUESTION 415

- (Exam Topic 5)

Sophia travels a lot and worries that her laptop containing confidential documents might be stolen. What is the best protection that will work for her?

- A. Password protected files
- B. Hidden folders
- C. BIOS password
- D. Full disk encryption.

**Answer:** D

#### NEW QUESTION 418

- (Exam Topic 5)

Which tier in the N-tier application architecture is responsible for moving and processing data between the tiers?

- A. Application Layer
- B. Data tier
- C. Presentation tier
- D. Logic tier

**Answer:** D

#### NEW QUESTION 419

- (Exam Topic 5)

Which Intrusion Detection System is best applicable for large environments where critical assets on the network need extra security and is ideal for observing sensitive network segments?

- A. Network-based intrusion detection system (NIDS)
- B. Host-based intrusion detection system (HIDS)
- C. Firewalls
- D. Honey pots

**Answer:** A

#### NEW QUESTION 424

- (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 426**

- (Exam Topic 5)

When purchasing a biometric system, one of the considerations that should be reviewed is the processing speed. Which of the following best describes what it is meant by processing?

- A. The amount of time it takes to convert biometric data into a template on a smart card.
- B. The amount of time and resources that are necessary to maintain a biometric system.
- C. The amount of time it takes to be either accepted or rejected form when an individual provides Identification and authentication information.
- D. How long it takes to setup individual user accounts.

**Answer:** C

**NEW QUESTION 427**

- (Exam Topic 5)

Which of these options is the most secure procedure for storing backup tapes?

- A. In a climate controlled facility offsite
- B. On a different floor in the same building
- C. Inside the data center for faster retrieval in a fireproof safe
- D. In a cool dry environment

**Answer:** A

**Explanation:**

An effective disaster data recovery strategy should consist of producing backup tapes and housing them in an offsite storage facility. This way the data isn't compromised if a natural disaster affects the business' office. It is highly recommended that the backup tapes be handled properly and stored in a secure, climate controlled facility. This provides peace of mind, and gives the business almost immediate stability after a disaster.

References:

<http://www.entrustm.com/blog/1132/why-is-offsite-tape-storage-the-best-disaster-recovery-strategy>

**NEW QUESTION 431**

- (Exam Topic 5)

Which Metasploit Framework tool can help penetration tester for evading Anti-virus Systems?

- A. msfpayload
- B. msfcli
- C. msfencode
- D. msfd

**Answer:** C

**NEW QUESTION 434**

- (Exam Topic 5)

Which of the following is one of the most effective ways to prevent Cross-site Scripting (XSS) flaws in software applications?

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

**Answer:** A

**Explanation:**

Contextual output encoding/escaping could be used as the primary defense mechanism to stop Cross-site Scripting (XSS) attacks.

References:

[https://en.wikipedia.org/wiki/Cross-site\\_scripting#Contextual\\_output\\_encoding.2Fescaping\\_of\\_string\\_input](https://en.wikipedia.org/wiki/Cross-site_scripting#Contextual_output_encoding.2Fescaping_of_string_input)

**NEW QUESTION 438**

- (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 443

- (Exam Topic 5)

During a security audit of IT processes, an IS auditor found that there were no documented security procedures. What should the IS auditor do?

- A. Identify and evaluate existing practices
- B. Create a procedures document
- C. Conduct compliance testing
- D. Terminate the audit

**Answer:** A

#### Explanation:

The auditor should first evaluate existing policies and practices to identify problem areas and opportunities.

#### NEW QUESTION 444

- (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 449

- (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 450

- (Exam Topic 6)

Shellshock had the potential for an unauthorized user to gain access to a server. It affected many internet-facing services, which OS did it not directly affect?

- A. Windows
- B. Unix
- C. Linux
- D. OS X

**Answer:** A

#### NEW QUESTION 453

- (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 456

- (Exam Topic 6)

It has been reported to you that someone has caused an information spillage on their computer. You go to the computer, disconnect it from the network, remove the keyboard and mouse, and power it down. What step in incident handling did you just complete?

- A. Containment
- B. Eradication
- C. Recovery
- D. Discovery

**Answer:** A

#### NEW QUESTION 458

- (Exam Topic 6)

You are manually conducting Idle Scanning using Hping2. During your scanning you notice that almost every query increments the IPID regardless of the port being queried. One or two of the queries cause the IPID to increment by more than one value. Why do you think this occurs?

- A. The zombie you are using is not truly idle.
- B. A stateful inspection firewall is resetting your queries.
- C. Hping2 cannot be used for idle scanning.
- D. These ports are actually open on the target system.

**Answer:** A

#### NEW QUESTION 460

- (Exam Topic 6)

You've just gained root access to a Centos 6 server after days of trying. What tool should you use to maintain access?

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

**Answer:** B

#### NEW QUESTION 461

- (Exam Topic 6)

TCP/IP stack fingerprinting is the passive collection of configuration attributes from a remote device during standard layer 4 network communications. Which of the following tools can be used for passive OS fingerprinting?

- A. nmap
- B. ping
- C. tracert
- D. tcpdump

**Answer:** D

#### NEW QUESTION 466

- (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 468

- (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 471

- (Exam Topic 6)

You want to analyze packets on your wireless network. Which program would you use?

- A. Wireshark with Airpcap
- B. Aircrack-ng with Airpcap
- C. Wireshark with Winpcap
- D. Ethereal with Winpcap

**Answer:** A

#### NEW QUESTION 476

- (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 478

- (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 479

- (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 484

- (Exam Topic 6)

Which of the following Nmap commands would be used to perform a stack fingerprinting?

- A. Nmap -O -p80 <host(s.>
- B. Nmap -hU -Q<host(s.>
- C. Nmap -sT -p <host(s.>
- D. Nmap -u -o -w2 <host>
- E. Nmap -sS -Op target

**Answer:** B

#### NEW QUESTION 488

- (Exam Topic 6)

Which type of cryptography does SSL, IKE and PGP belongs to?

- A. Secret Key
- B. Hash Algorithm
- C. Digest
- D. Public Key

**Answer:** D

#### NEW QUESTION 493

- (Exam Topic 6)

Which of the following BEST describes how Address Resolution Protocol (ARP) works?

- A. It sends a reply packet for a specific IP, asking for the MAC address
- B. It sends a reply packet to all the network elements, asking for the MAC address from a specific IP
- C. It sends a request packet to all the network elements, asking for the domain name from a specific IP
- D. It sends a request packet to all the network elements, asking for the MAC address from a specific IP

**Answer:** D

#### NEW QUESTION 496

- (Exam Topic 6)

While reviewing the result of scanning run against a target network you come across the following:



```
system.sysDescr.0 : DISPLAY STRING- (ascii): Cisco Internetwork Operating
System Software
IOS (tm) 4500 Software (C4500-IS-M), Version 12.0(9), RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2000 by Cisco Systems, Inc.
Compiled Tue 25-Jan-00 04:28 by bettyl
system.sysObjectID.0 : OBJECT IDENTIFIER:
.iso.org.dod.internet.Private.enter r1s2s1.Cisco.c4t1r0d1 Cisco4700
system.sysUpTime.0 : Timeticks: (1563980171) 18 days, 2:26:20.17
system.sysContact.0 : DISPLAY STRING- (ascii):
system.sysName.0 : DISPLAY STRING- (ascii): somerroutername
system.sysLocation.0 : DISPLAY STRING- (ascii):
system.sysServices.0 : INTEGER: 6
system.sysORLastChange.0 : Timeticks: (0) 0:00:00.00
```

Which among the following can be used to get this output?

- A. A Bo2k system query.
- B. nmap protocol scan
- C. A sniffer
- D. An SNMP walk

**Answer:** D

#### NEW QUESTION 497

- (Exam Topic 6)

Name two software tools used for OS guessing? (Choose two.)

- A. Nmap
- B. Snadboy
- C. Queso
- D. UserInfo
- E. NetBus

**Answer:** AC

#### NEW QUESTION 501

- (Exam Topic 6)

Which of the following tools is used by pen testers and analysts specifically to analyze links between data using link analysis and graphs?

- A. Metasploit
- B. Wireshark
- C. Maltego
- D. Cain & Abel

**Answer:** C

#### NEW QUESTION 503

- (Exam Topic 6)

Suppose you've gained access to your client's hybrid network. On which port should you listen to in order to know which Microsoft Windows workstations has its file sharing enabled?

- A. 1433
- B. 161
- C. 445
- D. 3389

**Answer:** C

#### NEW QUESTION 506

- (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 511

- (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 513

- (Exam Topic 6)

If you are to determine the attack surface of an organization, which of the following is the BEST thing to do?

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

**Answer:** A

#### NEW QUESTION 515

- (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 517

- (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 522

- (Exam Topic 6)

Supposed you are the Chief Network Engineer of a certain Telco. Your company is planning for a big business expansion and it requires that your network 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 would you implement?

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

**Answer:** D

#### NEW QUESTION 524

- (Exam Topic 6)

What attack is used to crack passwords by using a precomputed table of hashed passwords?

- A. Brute Force Attack
- B. Hybrid Attack
- C. Rainbow Table Attack
- D. Dictionary Attack

**Answer:** C

#### NEW QUESTION 525

- (Exam Topic 7)

Tess King is using the nslookup command to craft queries to list all DNS information (such as Name Servers, host names, MX records, CNAME records, glue records (delegation for child Domains), zone serial number, TimeToLive (TTL) records, etc) for a Domain.

What do you think Tess King is trying to accomplish? Select the best answer.

- A. A zone harvesting
- B. A zone transfer
- C. A zone update
- D. A zone estimate

**Answer:** B

**NEW QUESTION 530**

- (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 534**

- (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 537**

- (Exam Topic 7)

What is the BEST alternative if you discover that a rootkit has been installed on one of your computers?

- A. Copy the system files from a known good system
- B. Perform a trap and trace
- C. Delete the files and try to determine the source
- D. Reload from a previous backup
- E. Reload from known good media

**Answer:** E

**NEW QUESTION 539**

- (Exam Topic 7)

Which of the following statements about a zone transfer is correct? (Choose three.)

- A. A zone transfer is accomplished with the DNS
- B. A zone transfer is accomplished with the nslookup service
- C. A zone transfer passes all zone information that a DNS server maintains
- D. A zone transfer passes all zone information that a nslookup server maintains
- E. A zone transfer can be prevented by blocking all inbound TCP port 53 connections
- F. Zone transfers cannot occur on the Internet

**Answer:** ACE

**NEW QUESTION 540**

- (Exam Topic 7)

One of your team members has asked you to analyze the following SOA record.

What is the TTL?

Rutgers.edu.SOA NS1.Rutgers.edu ipad.college.edu (200302028 3600 3600 604800 2400.)

- A. 200303028
- B. 3600
- C. 604800
- D. 2400
- E. 60
- F. 4800

**Answer:** D

**NEW QUESTION 541**

- (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 543

- (Exam Topic 7)

What did the following commands determine?

```
C: user2sid \earth guest
s-1-5-21-343818398-789336058-1343024091-501
C:sid2user 5 21 343818398 789336058 1343024091 500
Name is Joe
Domain is EARTH
```

- A. That the Joe account has a SID of 500
- B. These commands demonstrate that the guest account has NOT been disabled
- C. These commands demonstrate that the guest account has been disabled
- D. That the true administrator is Joe
- E. Issued alone, these commands prove nothing

**Answer:** D

#### NEW QUESTION 548

- (Exam Topic 7)

Eric has discovered a fantastic package of tools named Dsniff on the Internet. He has learnt to use these tools in his lab and is now ready for real world exploitation. He was able to effectively intercept communications between the two entities and establish credentials with both sides of the connections. The two remote ends of the communication never notice that Eric is relaying the information between the two. What would you call this attack?

- A. Interceptor
- B. Man-in-the-middle
- C. ARP Proxy
- D. Poisoning Attack

**Answer:** B

#### NEW QUESTION 550

- (Exam Topic 7)

During an Xmas scan what indicates a port is closed?

- A. No return response
- B. RST
- C. ACK
- D. SYN

**Answer:** B

#### NEW QUESTION 551

- (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 555

- (Exam Topic 7)

Gavin owns a white-hat firm and is performing a website security audit for one of his clients. He begins by running a scan which looks for common misconfigurations and outdated software versions. Which of the following tools is he most likely using?

- A. Nikto
- B. Nmap
- C. Metasploit
- D. Armitage

**Answer:** B

#### NEW QUESTION 560

- (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 565

- (Exam Topic 7)

Windows LAN Manager (LM) hashes are known to be weak.

Which of the following are known weaknesses of LM? (Choose three.)

- A. Converts passwords to uppercase.
- B. Hashes are sent in clear text over the network.
- C. Makes use of only 32-bit encryption.
- D. Effective length is 7 characters.

**Answer:** ABD

#### NEW QUESTION 568

- (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 572

- (Exam Topic 7)

What is the algorithm used by LM for Windows2000 SAM?

- A. MD4
- B. DES
- C. SHA
- D. SSL

**Answer:** B

#### NEW QUESTION 573

- (Exam Topic 7)

Nathan is testing some of his network devices. Nathan is using Macof to try and flood the ARP cache of these switches.

If these switches' ARP cache is successfully flooded, what will be the result?

- A. The switches will drop into hub mode if the ARP cache is successfully flooded.
- B. If the ARP cache is flooded, the switches will drop into pix mode making it less susceptible to attacks.
- C. Depending on the switch manufacturer, the device will either delete every entry in its ARP cache or reroute packets to the nearest switch.
- D. The switches will route all traffic to the broadcast address created collisions.

**Answer:** A

#### NEW QUESTION 574

- (Exam Topic 7)

As a securing consultant, what are some of the things you would recommend to a company to ensure DNS security?

- A. Use the same machines for DNS and other applications
- B. Harden DNS servers
- C. Use split-horizon operation for DNS servers
- D. Restrict Zone transfers
- E. Have subnet diversity between DNS servers

**Answer:** BCDE

#### NEW QUESTION 579

- (Exam Topic 7)

You have the SOA presented below in your Zone.

Your secondary servers have not been able to contact your primary server to synchronize information. How long will the secondary servers attempt to contact the primary server before it considers that zone is dead and stops responding to queries?

collegae.edu.SOA, cikkye.edu ipad.college.edu. (200302028 3600 3600 604800 3600)

- A. One day
- B. One hour
- C. One week
- D. One month

**Answer:** C

#### NEW QUESTION 581

- (Exam Topic 7)

Which of the following algorithms can be used to guarantee the integrity of messages being sent, in transit, or stored?



- A. symmetric algorithms
- B. asymmetric algorithms
- C. hashing algorithms
- D. integrity algorithms

**Answer:** C

#### NEW QUESTION 582

- (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 583

- (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 588

- (Exam Topic 7)

What ports should be blocked on the firewall to prevent NetBIOS traffic from not coming through the firewall if your network is comprised of Windows NT, 2000, and XP?

- A. 110
- B. 135
- C. 139
- D. 161
- E. 445
- F. 1024

**Answer:** BCE

#### NEW QUESTION 589

- (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 593

- (Exam Topic 7)

Which of the following is the primary objective of a rootkit?

- A. It opens a port to provide an unauthorized service
- B. It creates a buffer overflow
- C. It replaces legitimate programs
- D. It provides an undocumented opening in a program

**Answer:** C

#### NEW QUESTION 594

- (Exam Topic 7)

What do Trinoo, TFN2k, WinTrinoo, T-Sight, and Stracheldraht have in common?

- A. All are hacking tools developed by the legion of doom
- B. All are tools that can be used not only by hackers, but also security personnel



- C. All are DDOS tools
- D. All are tools that are only effective against Windows
- E. All are tools that are only effective against Linux

**Answer:** C

**NEW QUESTION 598**

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