

## **EC-Council**

## 412-79V9 Exam

EC-Council Certified Security Analyst (ECSA) v9

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## Version: 12.0

#### Question: 1

Which of the following password cracking techniques is used when the attacker has some information about the password?

- A. Hybrid Attack
- **B.** Dictionary Attack
- C. Syllable Attack
- D. Rule-based Attack

Answer: D

Explanation:

Reference:

http://202.154.59.182/mfile/files/Information%20System/Computer%20Forensics%3B%20Hard%20 Disk%20and%20Operating%20Systems/CHAPTER%207%20Application%20Password%20Crackers.pdf (page 4, rule-based attack)

#### Question: 2

Which of the following is an application alert returned by a web application that helps an attacker guess a valid username?

A. Invalid username or password

- B. Account username was not found
- C. Incorrect password
- D. Username or password incorrect

Answer: C

#### **Question: 3**

A pen tester has extracted a database name by using a blind SQL injection. Now he begins to test the table inside the database using the below query and finds the table:

http://juggyboy.com/page.aspx?id=1; IF (LEN(SELECT TOP 1 NAME from sysobjects where xtype='U')=3) WAITFOR DELAY '00:00:10'--

http://juggyboy.com/page.aspx?id=1; IF (ASCII(lower(substring((SELECT TOP 1 NAME from sysobjects where xtype=char(85)),1,1)))=101) WAITFOR DELAY '00:00:10'--

http://juggyboy.com/page.aspx?id=1; IF (ASCII(lower(substring((SELECT TOP 1 NAME from sysobjects where xtype=char(85)),2,1)))=109) WAITFOR DELAY '00:00:10'--

http://juggyboy.com/page.aspx?id=1; IF (ASCII(lower(substring((SELECT TOP 1 NAME from sysobjects where xtype=char(85)),3,1)))=112) WAITFOR DELAY '00:00:10'—

What is the table name?

A. CTS

B. QRT

C. EMP

D. ABC

**Answer: C** 

#### Question: 4

When you are running a vulnerability scan on a network and the IDS cuts off your connection, what type of IDS is being used?

A. Passive IDS

- B. Active IDS
- C. Progressive IDS

D. NIPS

Answer: B

#### Question: 5

HTTP protocol specifies that arbitrary binary characters can be passed within the URL by using %xx notation, where 'xx' is the

A. ASCII value of the character

B. Binary value of the character

C. Decimal value of the character

D. Hex value of the character

Answer: D

https://books.google.nl/books?id=0RfANAwOUdIC&pg=PA720&lpg=PA720&dq=%22xx+notation%22 +binary&source=bl&ots=pGMqass7ti&sig=rnlg1xZ78ScUvullTmDY3r7REuc&hl=nl&sa=X&ei=8C4dVYe 1NorgasrzgoAL&ved=0CEQQ6AEwBQ#v=onepage&q=%22xx%20notation%22%20binary&f=false

#### **Question: 6**

Which of the following appendices gives detailed lists of all the technical terms used in the report?

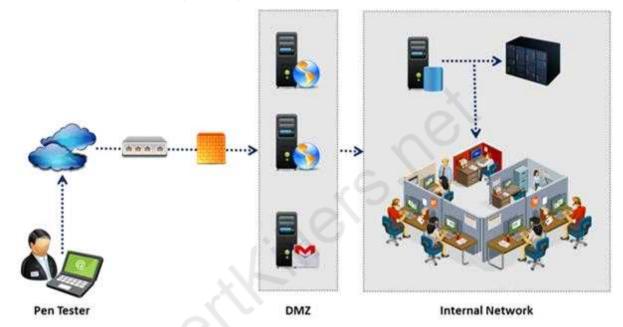
- A. Required Work Efforts
- B. References
- C. Research
- D. Glossary

**Answer: D** 

Refere' http://en.wikipedia.org/wiki/Glossary

#### **Question: 7**

An external intrusion test and analysis identify security weaknesses and strengths of the client's systems and networks as they appear from outside the client's security perimeter, usually from the Internet. The goal of an external intrusion test and analysis is to demonstrate the existence of known vulnerabilities that could be exploited by an external attacker.



During external penetration testing, which of the following scanning techniques allow you to determine a port's state without making a full connection to the host?

- A. XMAS Scan
- B. SYN scan
- C. FIN Scan
- D. NULL Scan

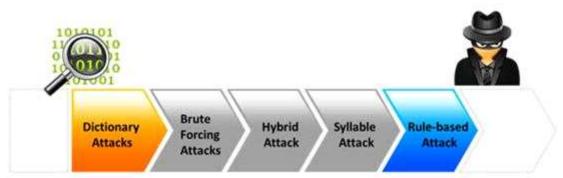
Answer: B

#### **Question: 8**

Passwords protect computer resources and files from unauthorized access by malicious users. Using passwords is the most capable and effective way to protect information and to increase the security level of a company.

Password cracking is the process of recovering passwords from data that have been stored in or transmitted by a computer system to gain unauthorized access to a system.

https://www.certkillers.net



Which of the following password cracking attacks tries every combination of characters until the password is broken?

- A. Brute-force attack
- B. Rule-based attack
- C. Hybrid attack
- D. Dictionary attack

Answer: A

Explanation:

Reference:

http://books.google.com.pk/books?id=m2qZNW4dcyIC&pg=PA237&lpg=PA237&dq=password+crack ing+attacks+tries+every+combination+of+characters+until+the+password+is+broken&source=bl&ots =RKEUUo6LYj&sig=MPEfFBEpoO0yvOwMxYCoPQuqM5g&hl=en&sa=X&ei=ZdwdVJm3CoXSaPXsgPgM &ved=0CCEQ6AEwAQ#v=onepage&q=password%20cracking%20attacks%20tries%20every%20combi nation%20of%20characters%20until%20the%20password%20is%20broken&f=false

#### **Question: 9**

Rules of Engagement (ROE) document provides certain rights and restriction to the test team for performing the test and helps testers to overcome legal, federal, and policy-related restrictions to use different penetration testing tools and techniques.

	Rules of Engagement Template					
DATE:	[Date]					
TO:	[Name and Address of NASA Official]					
FROM:	[Name and Address of Third Party performing the Penetration Testing]					
CC:	[Name and Address of Interested NASA Officials]					
RE:	Rules of Engagement to Perform a Limited Penetration Test in Support of [required activity]					
(NASA). [. assessment procedures Engagement	hird party] has been contracted by the National Aeronautics and Space Administration Name of requesting organization] to perform an audit of NASA's [Name of risk target]. The corresponding task-order requires the performance of penetration test to assess external and internal vulnerabilities. The purpose of having the "Rules of nt" is to clearly establish the scope of work and the procedures that will and will not ed, by defining targets, time frames, test rules, and points of contact.					

- A. Conduct a brainstorming session with top management and technical teams
- B. Decide the desired depth for penetration testing
- C. Conduct a brainstorming session with top management and technical teams
- D. Have pre-contract discussions with different pen-testers

Answer: C

#### **Question: 10**

Which of the following is a framework of open standards developed by the Internet Engineering Task Force (IETF) that provides secure transmission of the sensitive data over an unprotected medium, such as the Internet?

- A. DNSSEC
- B. Netsec
- C. IKE
- D. IPsec

Answer: D

Explanation:

Reference: http://www.cisco.com/c/en/us/td/docs/net\_mgmt/vpn\_solutions\_center/2-0/ip\_security/provisioning/guide/IPsecPG1

#### Question: 11

Mason is footprinting an organization to gather competitive intelligence. He visits the company's website for contact information and telephone numbers but does not find any. He knows the entire staff directory was listed on their website 12 months. How can he find the directory?

- A. Visit Google's search engine and view the cached copy
- B. Crawl and download the entire website using the Surfoffline tool and save them to his computer
- C. Visit the company's partners' and customers' website for this information
- D. Use WayBackMachine in Archive.org web site to retrieve the Internet archive

Answer: D

#### **Question: 12**

Application security assessment is one of the activity that a pen tester performs in the attack phase. It is designed to identify and assess threats to the organization through bespoke, proprietary applications or systems. It checks the application so that a malicious user cannot access, modify, or destroy data or services within the system.



Identify the type of application security assessment which analyzes the application-based code to confirm that it does not contain any sensitive information that an attacker might use to exploit an application.

- A. Web Penetration Testing
- B. Functionality Testing
- C. Authorization Testing
- D. Source Code Review

Answer: D

#### **Question: 13**

Which of the following is not a characteristic of a firewall?

- A. Manages public access to private networked resources
- B. Routes packets between the networks
- C. Examines all traffic routed between the two networks to see if it meets certain criteria
- D. Filters only inbound traffic but not outbound traffic

Answer: D

#### Question: 14

The IP protocol was designed for use on a wide variety of transmission links. Although the maximum length of an IP datagram is 64K, most transmission links enforce a smaller maximum packet length limit, called a MTU.

The value of the MTU depends on the type of the transmission link. The design of IP accommodates MTU differences by allowing routers to fragment IP datagrams as necessary. The receiving station is responsible for reassembling the fragments back into the original full size IP datagram.

IP fragmentation involves breaking a datagram into a number of pieces that can be reassembled later. The IP source, destination, identification, total length, and fragment offset fields in the IP header, are used for IP fragmentation and reassembly.

ł	nk-layer Header	Data = I	Taker	
Version	IP HL	TOS		Total Length
Identification			Flags	Fragment Offset
П	rL.	Protocol	Header Checksum	
		Source	Address	
		Destinati	ion Address	5
		Options		Pad
		C.	Data	

The fragment offset is 13 bits and indicates where a fragment belongs in the original IP datagram. This value is a:

- A. Multiple of four bytes
- B. Multiple of two bytes
- C. Multiple of eight bytes
- D. Multiple of six bytes

Answer: C

Explanation: Reference: http://www.freesoft.org/CIE/Course/Section3/7.htm (fragment offset: 13 bits)

#### Question: 15

From where can clues about the underlying application environment can be collected?

- A. From the extension of the file
- B. From executable file
- C. From file types and directories
- D. From source code

Answer: A

#### **Question: 16**

Which of the following information gathering techniques collects information from an organization's web-based calendar and email services?

- A. Anonymous Information Gathering
- B. Private Information Gathering
- C. Passive Information Gathering
- D. Active Information Gathering

Answer: D

Explanation: Reference: http://luizfirmino.blogspot.com/2011/09/footprinting-terminologies

#### Question: 17

Which Wireshark filter displays all the packets where the IP address of the source host is 10.0.0.7?

Elle Edit View Go Capture Analyzi	Statistics Telephony Look	Internals Help	
0 0 4 1 2 2 2 2 4	1 《 4 4 4 7 2		190 🖾 🕷 🖉 🎉 🛸
Filter:		• Expression 0	Bear Apply Save
No. Time Source	Destination	Protocol Len	gth Info
1 0.00000000	192.168.3	NENS	92 Name query NS ISATAP C
4 0.50415200	239,255,2		175 M-SEARCH * HTTP/I.1
6 0.7505/500	224.0.0.	LEMINE	66 standard query 0x8127
9 0.84999900	224.0.0.2	LLMNR	66 Standard guery 0x8127
10 1.05028000	192.168.3	NBNS	92 Name query NB ISATAP <c< td=""></c<>
22 1.80008700	192.168.5	NBNS	92 Name query NS ISATAP+C
24 2.55011000	192.168.5	NBNS	92 Name query NB 15ATAP <c< td=""></c<>
26 3, 30162400	224.0.0.2	LLMNR	66 Standard query 0x3217
29 3.40119800	224.0.0.2		66 Standard query 0x3217
30 3.44283400	8.8.8.8	DNS	75 standard query 0x7837
32 3.47876500	74.123.2	TCP	66 trp > https [SyN] Seq-
34 3.50417800	239.255.2	10000	175 M-SEARCH # HTTP/1.1
36 3.54981600	74.125.27	TCP	54 trp > https [ACK] Seq-
37.3 55464444	74 535 311	These a	Ito cliner walls
Frame 5: 66 bytes on wire ( Ethernet II, src: Dell_fd/8 Internet Protocol Version 4 User Datagram Protocol, src Link-local Multicast Name 8	6:63 (a4:ba:db:fd:86:63 , Src: 192.168.168.32 ( Port: 57431 (57431), D	), Dst: IPv4m 192.168.168.3	ast_00:00:fc (01:00:5e:00: 2), Dst: 224.0.0.252 (224.0
• 1	- M.		
0000 01 00 Se 00 00 fc a4 ba		00	LALGER .
0010 00 34 00 a5 00 00 01 11 0020 00 fc e0 57 14 eb 00 20	6f 4f c0 a8 a8 20 e0		
	e1 4e 81 27 00 00 00 73 61 74 61 70 00 00		satap
0030 00 00 00 00 00 00 06 69	73 61 74 61 70 00 00		

A. ip.dst==10.0.0.7 B. ip.port==10.0.0.7 C. ip.src==10.0.0.7 D. ip.dstport==10.0.0.7

Answer: C

#### **Question: 18**

Which of the following statements is true about the LM hash?

- A. Disabled in Windows Vista and 7 OSs
- B. Separated into two 8-character strings
- C. Letters are converted to the lowercase
- D. Padded with NULL to 16 characters

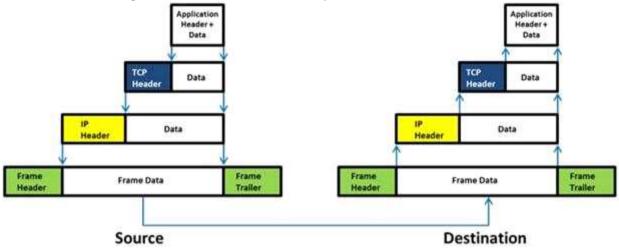
Answer: A

Explanation:

Reference:

http://www.onlinehashcrack.com/how\_to\_crack\_windows\_passwords.php (first paragraph of the page)

#### Question: 19



#### Which of the following statement holds true for TCP Operation?

- A. Port numbers are used to know which application the receiving host should pass the data to
- B. Sequence numbers are used to track the number of packets lost in transmission
- C. Flow control shows the trend of a transmitting host overflowing the buffers in the receiving host
- D. Data transfer begins even before the connection is established

Answer: D

#### **Question: 20**

Which of the following will not handle routing protocols properly?

- A. "Internet-router-firewall-net architecture"
- B. "Internet-firewall-router-net architecture"
- C. "Internet-firewall -net architecture"
- D. "Internet-firewall/router(edge device)-net architecture"

Answer: B

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