Security+ Guide to Network Security Fundamentals 4th Edition Ciampa Test Bank

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Chapter 2: Malware and Social Engineering Attacks

TRUE	FΑ	LSE
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1.	Approximately two cattack toolkits.	out of th	ree malicious V	Web att	acks have been developed using one of four popular		
	ANS: F	PTS:	1	REF:	42		
2.	Attack toolkits range	in price	e from only \$40	00 to as	much as \$8,000.		
	ANS: F	PTS:	1	REF:	42		
3.	Like a virus, a worm needs the user to perform an action such as starting a program or opening an e-mail attachment to start the infection.						
	ANS: F	PTS:	1	REF:	48		
4.	Removing a rootkit from an infected computer is extremely difficult.						
	ANS: T	PTS:	1	REF:	51		
5.	Software keyloggers are programs that silently capture all keystrokes, including passwords and sensitive information.						
	ANS: T	PTS:	1	REF:	56		
MUL	TIPLE CHOICE						
1.	1. The most popular attack toolkit, which has almost half of the attacker toolkit market is						
	a. SpyEyeb. NeoSploit				ZeuS MPack		
	ANS: D	PTS:	1	REF:	42		
2.	2 is when an attacker tricks users into giving out information or performing a compromising action.						
	a. Phreaking				Social engineering		
	b. Hacking			d.	Reverse engineering		
	ANS: C	PTS:	1	REF:	43		
3.			at have the prin		pjective of spreading are		
	a. viruses and wornb. rootkits and worn				Trojans and worms rootkits and Trojans		
	ANS: A	PTS:	1	REF:	43		
4.	A computer is a	malicio	us computer co	de that	reproduces itself on the same computer.		
	a. virusb. worm				adware spyware		
	ANS: A	PTS:	1	REF:			
	·~ · = =	~.					

5.	In a(n) infecti the file.	on, a viru	s injects its	self into the	program's executable code instead of at the end of
	a. stealthb. appender				Swiss cheese split
	ANS: C	PTS:	1	REF:	44
6.	Unlike other malwa a. Trojan b. worm	nre, a	_ is heavily	c.	upon the user for its survival. rootkit virus
	ANS: D	PTS:	1	REF:	46
7.	A virus is load infects files that are a. companion b. file infector			or the opera	(RAM) each time the computer is turned on and ating system. resident boot
	ANS: C	PTS:	1	REF:	47
8.	A virus infect a. file infector b. companion	s the Mas	ter Boot R	c.	ard disk drive. resident boot
	ANS: D	PTS:	1	REF:	47
9.	A virus infect a. macro b. program	s program	ı executabl	c.	companion boot sector
	ANS: B	PTS:	1	REF:	47
10.	a. 50	differe	ent Micros	c.	vs file extensions that could contain a virus.
	b. 60	DEG			80
	ANS: C	PTS:	1	REF:	47
11.	A is a series of to automate a compa. rootkit b. macro			repeated second	ed together as a single command and are often used ries of tasks. program process
	ANS: B	PTS:	1	REF:	47
12.	A(n) virus add legitimate program. a. macro b. metamorphic		am to the o	c.	boot companion
	ANS: D	PTS:	1	REF:	-
13	Viruses and worms				
13.	a. duplicating b. updating	are said t	0 00 3011	c.	copying replicating

	ANS: D	PTS:	1	REF:	48
14.	A is a program a. script b. virus	advertis	sed as performi	c.	activity but actually does something else. Trojan worm
	ANS: C	PTS:	1	REF:	49
15.	A is a set of sommalicious software, some a. rootkit b. backdoor			s, or wo	er to hide the actions or presence of other types of orms. wrapper shield
	ANS: A	PTS:	1	REF:	49
16.	A is a compute logical event. a. Trojan b. logic bomb	r progra	um or a part of a	c.	macro virus metamorphic virus
	ANS: B	PTS:	1	REF:	51
17.	A(n) refers to special commands, k a. Trojan horse b. virus			ouse cli c.	, hidden feature, that launches by entering a set of cks. bug Easter egg
	ANS: D	PTS:	1	REF:	52
18.	is a software prunwanted by the usera. Adware b. Keylogger	-	hat delivers ad	c.	g content in a manner that is unexpected and Spam Trojan
	ANS: A	PTS:	1	REF:	55
19.	is an image spa a. Word splitting b. Geometric varian			c.	-
	ANS: D	PTS:	1	REF:	63
20.	a. Word splitting b. GIF layering	ontally s	eparating word	c.	ugh it is still readable by the human eye. Geometric variance Layer variance
	ANS: A	PTS:	1	REF:	63
21.	uses "specklinga. GIF layeringb. Geometric varian		ifferent colors	c.	no two spam e-mails appear to be the same. Word splitting Layer variance
	ANS: B	PTS:	1	REF:	63

COMPLETION

1.	Malicious software, or harm.	•	silently infiltrate computers with the intent to do
	ANS: malware		
	PTS: 1	REF: 42	
2.			rus is divided into several parts and the parts are program, overwriting the original contents of the host.
	ANS: split infection		
	PTS: 1	REF: 44	
3.	Thedescription of how the	contains the hard drive is organized (t	program necessary for the computer to start up and a ne partition table).
	ANS: Master Boot Record (Master Boot Record MBR	MBR)	
	PTS: 1	REF: 47	
4.	A macro virus takes ac and the operating system		"relationship between the application
	ANS: trust		
	PTS: 1	REF: 47	
5.		is either a small h	ardware device or a program that monitors each rd.
	ANS: keylogger		
	PTS: 1	REF: 56	
ΥC	CHING		

MA

Match each item with a statement below:

a. Trojan f. Image spam b. Macro virus g. Spyware c. Companion virus h. Malware d. Worm i. Hoax

e. Rootkit

- 1. executable program advertised as performing one activity, but actually does something else
- 2. hides or removes traces of log-in records, log entries, and related processes
- 3. general term used to describe software that violates a user's personal security
- 4. adds a program to the operating system that is a malicious copycat version to a legitimate program
- 5. uses graphical images of text in order to circumvent text-based filters
- 6. false warning, often contained in an e-mail message claiming to come from the IT department

- 7. general term that refers to a wide variety of damaging or annoying software programs
- 8. a program designed to take advantage of a vulnerability in an application or an operating system in order to enter a system
- 9. series of instructions that can be grouped together as a single command

1.	ANS:	A	PTS:	1	REF:	49
2.	ANS:	E	PTS:	1	REF:	49
3.	ANS:	G	PTS:	1	REF:	54
4.	ANS:	C	PTS:	1	REF:	47
5.	ANS:	F	PTS:	1	REF:	62
6.	ANS:	I	PTS:	1	REF:	63
7.	ANS:	H	PTS:	1	REF:	43
8.	ANS:	D	PTS:	1	REF:	48
9.	ANS:	В	PTS:	1	REF:	47

SHORT ANSWER

1. What is malware?

ANS:

Malware is software that enters a computer system without the user's knowledge or consent and then performs an unwanted—and usually harmful—action. Malware is a general term that refers to a wide variety of damaging or annoying software programs. One way to classify malware is by its primary objective. Some malware has the primary goal of rapidly spreading its infection, while other malware has the goal of concealing its purpose. Another category of malware has the goal of making a profit for its creators.

PTS: 1 REF: 43

2. Explain how an appender infection works.

ANS:

The virus first appends itself to the end of a file. It then moves the first three bytes of the original file to the virus code and replaces them with a "jump" instruction pointing to the virus code. When the program is launched, the jump instruction redirects control to the virus.

PTS: 1 REF: 44

3. What are some of the functions performed by viruses?

ANS:

Viruses have performed the following functions:

- Caused a computer to crash repeatedly
- Erased files from a hard drive
- Made multiple copies of itself and consumed all of the free space in a hard drive
- Turned off the computer's security settings
- Reformatted the hard disk drive

PTS: 1 REF: 45

4. Describe a macro virus.

ANS:

A macro virus is written in a script known as a macro. A macro is a series of commands and instructions that can be grouped together as a single command. Macros often are used to automate a complex set of tasks or a repeated series of tasks. Macros can be written by using a macro language, such as Visual Basic for Applications (VBA), and are stored within the user document (such as in an Excel .XLSX worksheet). A macro virus takes advantage of the "trust" relationship between the application (Excel) and the operating system (Microsoft Windows). Once the user document is opened, the macro virus instructions execute and infect the computer.

PTS: 1 REF: 47

5. What is a worm?

ANS:

A worm is a malicious program designed to take advantage of a vulnerability in an application or an operating system in order to enter a computer. Once the worm has exploited the vulnerability on one system, it immediately searches for another computer that has the same vulnerability. A worm uses a network to send copies of itself to other devices also connected to the network.

PTS: 1 REF: 48

6. How does a rootkit work?

ANS:

One approach used by rootkits is to alter or replace operating system files with modified versions that are specifically designed to ignore malicious activity. For example, on a computer the anti-malware software may be instructed to scan all files in a specific directory and in order to do this, the software will receive a list of those files from the operating system. A rootkit will replace the operating system's ability to retrieve a list of files with its own modified version that ignores specific malicious files. The anti-malware software assumes that the computer will willingly carry out those instructions and retrieve all files; it does not know that the computer is only displaying files that the rootkit has approved.

PTS: 1 REF: 50

7. What is a backdoor and what is it used for?

ANS:

A backdoor is software code that gives access to a program or service that circumvents any normal security protections. Creating a legitimate backdoor is a common practice by a developer, who may need to access a program or device on a regular basis, yet does not want to be hindered by continual requests for passwords or other security approvals. The intent is for the backdoor to be removed once the application is finalized. However, in some instances backdoors have been left installed, and attackers have used them to bypass security. In addition, malware from attackers can also install backdoors on a computer. This allows the attacker to return at a later time and bypass any security settings.

PTS: 1 REF: 52

8. What are botnets?

ANS:

One of the popular payloads of malware today that is carried by Trojan horses, worms, and viruses is a program that will allow the infected computer to be placed under the remote control of an attacker. This infected "robot" computer is known as a zombie. When hundreds, thousands, or even tens of thousands of zombie computers are under the control of an attacker, this creates a botnet.

Early botnets under the control of the attacker, known as a bot herder, used Internet Relay Chat (IRC) to remotely control the zombies. IRC is an open communication protocol that is used for real-time "chatting" with other IRC users over the Internet. It is mainly designed for group or one-to-many communication in discussion forums. Users access IRC networks by connecting a local IRC client to a remote IRC server, and multiple IRC servers can connect to other IRC servers to create large IRC networks. After infecting a computer to turn it into a zombie, bot herders would secretly connect it to a remote IRC server using its built-in client program and instruct it to wait for instructions, known as command and control (C&C). The bot herder could then remotely direct the zombies to steal information from the victims' computers and to launch attacks against other computers.

PTS: 1 REF: 52-53

9. Describe adware.

ANS:

Adware is a software program that delivers advertising content in a manner that is unexpected and unwanted by the user. Adware typically displays advertising banners, popup ads, or opens new Web browser windows while the user is accessing the Internet. Almost all users resist adware because:

- Adware may display objectionable content, such as gambling sites or pornography.
- Frequent pop-up ads can interfere with a user's productivity.
- Pop-up ads can slow a computer or even cause crashes and the loss of data.
- Unwanted advertisements can be a nuisance.

Some adware goes beyond affecting the user's computer. This is because adware programs can also perform a tracking function, which monitors and tracks a user's online activities and then sends a log of these activities to third parties without the user's authorization or knowledge. For example, a user who visits online automobile sites to view specific types of cars can be tracked by adware and classified as someone interested in buying a new car. Based on the order and type of Web sites visited, the adware can also determine whether the surfers' behavior suggests they are close to making a purchase or are also looking at competitors' cars. This information is gathered by adware and then sold to automobile advertisers, who send the users regular mail advertisements about their cars or even call the user on the telephone.

PTS: 1 REF: 55

10. What are some of the costs involved for spamming?

ANS:

Consider the following costs involved for spamming:

• E-mail addresses—Spammers often build their own lists of e-mail addresses using special software that rapidly generates millions of random e-mail addresses from well-known Internet Service Providers (ISPs) and then sends messages to these addresses. Because an invalid e-mail account returns the message to the sender, the software can automatically delete the invalid accounts leaving a list of valid e-mail addresses to send the actual spam. If a spammer wants to save time by purchasing a list of valid e-mail addresses to spam, the cost is relatively inexpensive (\$100 for 10 million addresses).

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• Equipment and Internet connection—Spammers typically purchase an inexpensive laptop computer (\$500) and rent a motel room with a high-speed Internet connection (\$85 per day) as a base for launching attacks. Sometimes spammers actually lease time from other attackers (\$40 per hour) to use a network of 10,000 to 100,000 infected computers to launch an attack.

PTS: 1 REF: 62