

Chapter 2: Desktop Security

TRUI	E/FALSE						
1.	Viruses can spread through instant messaging (IM).						
	ANS: T	PTS:	1	REF:	45		
2.	A worm must attach itself to a computer document, such as an e-mail message, and is spread by traveling along with the document.						
	ANS: F	PTS:	1	REF:	46		
3.	Logic bombs are extremely difficult to detect before they are triggered.						
	ANS: T	PTS:	1	REF:	47		
4.	ERD bootable floppies can be created for Microsoft Windows Server 2003, Windows 2000, and Windows XP.						
	ANS: F	PTS:	1	REF:	68		
5.	5. If the hard drive of a stolen laptop computer that is equipped with a stealth signal transmitter is removed and installed on another computer, it will send a signal from the new computer.						
	ANS: T	PTS:	1	REF:	61		
MUL	TIPLE CHOICE						
1.	 A computer is a program that secretly attaches itself to a document or another program and executes when that document or program is opened. a. biometric						
	ANS: B	PTS:	1	REF:	•		
2.	as a certain date reac previous level. a. logic bomb			ndar or c.	until it is triggered by a specific logical event, such a person's rank in an organization dropped below a password		
	b. biometric ANS: A	PTS:	1	REF:	public key 47		
2							
3.	a. Encryption b. Hashing	ng and d	eceiving some	c.	Dumpster diving Social engineering		
	ANS: D	PTS:	1	REF:	48		
4.	that have been throw	-			find computer manuals, printouts, or password lists		
	a. Hashing			c.	Encryption		

	b. Dumpster diving	5		d.	Instant messaging
	ANS: B	PTS:	1	REF:	48
5.	a. Brute force attacts. Biometrics		d on what you	c.	hat you know, or what you are. Authentication Decryption
	ANS: C	PTS:	1	REF:	49
6.	A(n) is a secret by what he knows.	combin	nation of letter	s and nu	mbers that serves to validate or authenticate a use
	a. digital signatureb. device lock				patch software password
	ANS: D	PTS:	1	REF:	49
7.	Attackers can exploi a. instant messagin b. using a device lo	g	basswords by	c.	password guessing hashing
	ANS: C	PTS:	1	REF:	50
8.		ging one	character at a	time in	to create every possible password combination by a password, and then using each newly generated dumpster diving dictionary
	ANS: A	PTS:	1	REF:	·
9.	is generally co	nfigured	l to constantly	monitor	for viruses and automatically check for updated
	signature files. a. Data backup sof b. Encryption		-	c.	Instant messaging software Antivirus software
	ANS: D	PTS:	1	REF:	56
10.	uses the uniqueDigital signatureBiometrics		characteristic	c.	erson for authentication. Digital certificates Signature files
	ANS: B	PTS:	1	REF:	59
11.	A(n) consists of a. device lock b. key	of a steel	cable and a lo	c.	antivirus software program stealth signal transmitter
	ANS: A	PTS:	1	REF:	60
12.	A(n) is softwar a. patch b. signature file	e install	ed on the lapt	c.	outer that cannot be detected. device lock stealth signal transmitter
	ANS: D	PTS:	1	REF:	-
13.	Changing the original	al text o	f a message to	a secret	message using cryptography is known as

	a. biometricsb. encryption				social engineering dumpster diving		
	ANS: B	PTS:	1	REF:	61		
14.	scrambles data a. Cryptography b. Instant messagin		it cannot be vie	c.	unauthorized users. Patch software Network attached storage		
	ANS: A	PTS:	1	REF:	61		
15. Once the only means of backing up data, today are usually found only on large networks servers.							
	a. portable USB hab. NAS devices	rd drive	es s		tape backups Internet services		
	ANS: C	PTS:	1	REF:	67		
16.	With a(n) syste a. public key b. antivirus	em, the s	same key is use	c.	th encrypt and decrypt the message. biometric private key		
	ANS: D	PTS:	1	REF:	61		
17.	With a(n) syste a. biometric b. public key	em, two	mathematically	c.	l keys are used: a public key and a private key. antivirus private key		
	ANS: B	PTS:	1	REF:	61		
18.	 8. A is a code attached to an electronic message that helps to prove that the person sending the message with a public key is not an imposter, that the message was not altered, and that it cannot be denied that the message was sent. a. digital signature b. device lock c. hash d. digital certificate 						
	ANS: A	PTS:	1	REF:	62		
19.	A creates encry for authentication put a. digital signature b. public key		xt that is never	c.	d to be decrypted; instead, it is used in a comparison hash private key		
	ANS: C	PTS:	1	REF:	62		
20.	A links or bind a. digital certificate b. logic bomb		ific person to a	c.	key. definition file stealth signal transmitter		
	ANS: A	PTS:	1	REF:	64		
21.	devices connected to moving it from comp a. device lock	the con	nputer network	to acce c.	cept it has additional "intelligence" that allows all ess it (instead of unplugging it a computer and network attached storage device		
	b. patch			u.	private key		

COM	PLETION							
1.	A(n)message.	is an encrypted hash of a message that is transmitted along with the						
	ANS: digital signature							
	PTS: 1 REF	62						
2.	A(n)certificates.	is an independent third-party organization that provides digital						
	ANS: certification authority CA certification authority (CA CA (certification authority							
	PTS: 1 REF							
3.	Creating a(n)secure location.	involves copying data onto digital media and storing it in a						
	ANS: data backup							
	PTS: 1 REF	66						
4.	the hard disk drive, compu	cually replicate themselves until they clog all available resources, such as er memory, or the Internet network connection.						
	ANS: Worms							
	PTS: 1 REF	47						
5.	A(n) computer encodes a user's	takes each word from a dictionary and encodes it in the same way the password for protection.						
	ANS: dictionary attack							
	PTS: 1 REF	51						
MAT	CHING							
	Match each item with a stea. Desktop computersb. Malwarec. Virusesd. Logic bombse. Username	f. Patch software g. Cryptography h. Instant messaging i. Worms						

REF: 67

ANS: C

PTS: 1

1. Also referred to as malicious software.

- 2. Often used to ensure payment for software.
- 3. Can refer to either computers that sit on a user's desk or portable laptop computers.
- 4. General term used to describe software security updates that vendors provide for their programs and operating system.
- 5. The science of transforming information so that it is secure while it is being transmitted or stored.
- 6. Unique identifier.
- 7. Method of online communication.
- 8. Do not depend on the e-mail message for its survival.
- 9. Can be programmed to send themselves to all users listed in an e-mail address book.

1.	ANS:	В	PTS:	1	REF:	44
2.	ANS:	D	PTS:	1	REF:	47
3.	ANS:	A	PTS:	1	REF:	44
4.	ANS:	F	PTS:	1	REF:	53
5.	ANS:	G	PTS:	1	REF:	61
6.	ANS:	E	PTS:	1	REF:	49
7.	ANS:	H	PTS:	1	REF:	45
8.	ANS:	I	PTS:	1	REF:	46
9.	ANS:	C	PTS:	1	REF:	45

SHORT ANSWER

1. What effect can a computer virus have on your computer?

ANS:

Viruses can:

Cause a computer to continually crash

Erase files from a hard drive

Install hidden programs, such as stolen ("pirated") software, which is then secretly distributed or even sold to other users from the computer

Make multiple copies of itself and consume all of the free space in a hard drive

Reduce security settings and allow intruders to remotely access the computer

Reformat the hard disk drive and erase its entire contents

PTS: 1 REF: 45

2. List five symptoms that indicate that a virus has infected a computer.

ANS:

The symptoms include:

An e-mail contact says that recently received e-mail messages from you contained unusual attachments.

A program suddenly disappears from the computer.

An e-mail message appears that has an unexpected attachment or the attachment has a double file extension, such as PICTURE.JPG.VPS or SUNSET.TIF.EXE.

After opening the attachment, dialog boxes open or the computer slows significantly.

New icons appear on the desktop that are not associated with any recently installed programs.

New programs do not install properly.

Out-of-memory error messages appear.

Programs that used to function normally stop responding. If the software is removed and reinstalled, the problem continues.

Sometimes the computer starts normally, but at other times it stops responding before the desktop icons and taskbar appear.

Unusual dialog boxes or message boxes appear.

Sounds or music plays from the speakers unexpectedly.

The computer runs very slowly and takes a long time to start.

There is a significant amount of modem activity.

Windows restarts unexpectedly.

Windows error messages appear listing "critical system files" that are missing and refuse to load.

PTS: 1 REF: 46

3. List five characteristics of a weak password.

ANS:

Passwords that are short (such as ABCD)

A common word used as a password (such as Friday)

Personal information in a password (such as the name of a child)

Using the same password for all accounts

Writing the password down

Not changing passwords unless forced to do so

PTS: 1 REF: 50

4. Provide brief descriptions of each of the four Windows automatic update configuration options.

ANS:

Automatic - This option checks the Microsoft Web site every day at a user designated time and, if there are any patches, Windows automatically downloads and installs them onto the desktop computer.

Download - The Download option automatically downloads the patches but does not install them, allowing the user to review and choose which patches to install.

Notify - This option alerts the user that patches are available but does not download or install them. The user must go to the Microsoft Web site to review and install the patches.

Turn off - The Turn off option disables automatic updates.

PTS: 1 REF: 54-55

5. What are the basic rules for creating strong passwords?

ANS:

Passwords must have at least eight characters.

Passwords must contain a combination of letters, numbers, and special characters.

Passwords on Windows XP systems can be enhanced by using a space in the password or by using nonprintable characters.

Passwords should be replaced at least every 30 days.

Passwords should not be reused for 12 months.

The same password should not be used on two or more systems or accounts.

PTS: 1 REF: 57

6. What are the five basic questions that should be answered when creating a data backup?

ANS:

The questions are:

What information should be backed up? How often should it be backed up? What media should be used? Where should the backup be stored? How should the backup be performed?

PTS: 1 REF: 66-68

7. How would you recover from an attack using ASR?

ANS:

To recover from an attack using ASR:

- 1. Insert the original operating system installation CD into the CD drive.
- 2. Restart the computer. If prompted to press a key in order to start the computer from CD, press the appropriate key.
- 3. Press the F2 key when prompted during the text-only mode section of Setup.
- 4. Insert the ASR floppy disk when prompted.
- 5. Follow the remaining directions on the screen.

PTS: 1 REF: 69

8. What is the difference between a worm and a virus?

ANS:

Although similar to viruses, worms are different in two regards. First, a virus must attach itself to a computer document, such as an e-mail message, and is spread by traveling along with the document. A worm, on the other hand, does not attach to a document to spread, but can instead travel by itself.

A second difference between a worm and a virus is that a virus needs the user to perform an action, such as starting a program or reading an e-mail message, to start the infection. A worm does not always require action by the computer user to begin its execution.

PTS: 1 REF: 46

9. When selling or donating your computer, what files should you remove?

ANS:

The files that should be removed include:

E-mail contacts

E-mail messages

All personal documents

All files in the operating system recycle bin or trash folder

Internet files

All nontransferable software

PTS: 1 REF: 64-65

10. Microsoft classifies patches based on the level of vulnerability that the patch fixes. Briefly describe each level of vulnerability.

ANS:

Critical - A critical vulnerability could freely allow a worm to infect a computer even when other defense mechanisms are in place.

Important - An important vulnerability could result in the confidentiality, integrity, or availability of data or resources being compromised.

Moderate - Moderate vulnerabilities are those that are difficult for an attacker to exploit because of current configurations.

Low - Low vulnerability means that it would be very difficult for an attacker to take advantage of this weakness and whose impact would be minimal.

PTS: 1 REF: 54