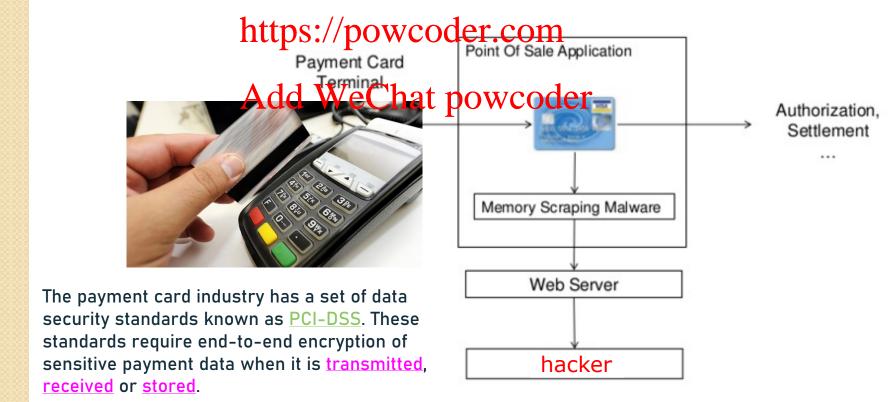
- > <u>INFORMATION</u> cont. STEALER
  - 2) Memory (RAM) Scraper steals data when processed in memory

Assignmented projecto Examaldel perything is decrypted



> <u>INFORMATION</u> - cont. STEALER

3) Desktop Recorder – takes screenshots of the Assignment of the when mouse slicked or keyboard pressed

https://phantage enmount of that that needs to be stored / transmitted

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- RANSOMWARE holds data or access to systems containing data until the victim pays a ransom
  - subcategories of ransomware based on Assignmental projectal and Help

https://powerderckers - encrypts victim's data or entire hard-drive get encrypted



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2) ScreenLockers – user is locked out and denied login to the system







# Your computer has been locked!

Your computer has been locked due to suspicion of illegal content downloading and distribution.

Mentioned illegal content (414 Mb of video files) was automatically classified as child pornographic materials. Such actions, in whole or in part, violate following U.S. Fedarablaws:

part, violate following U.S. Ferans Signment Project Exam Helpmart pornography)

18 U.S.C. § 2252- Certain activities relating to material involving the sexual exploitation of minors (Posses ion distributio/ and receipt of order.com child pomography)

https://powcoder.com

18 U.S.C. § 2252A- certain activities relating to material constituting or containing child pornography

Any individual who violates, or attempt to clate we spire at power power

Technical details:
Involved IP address:
Involved host name:
Source or intermediary sites: http://pornerbros.com

All suspicious files from your computer were transmitted to a special server and shall be used as evidences. Don't try to corrupt any data or unblock your account in an unauthorized way.

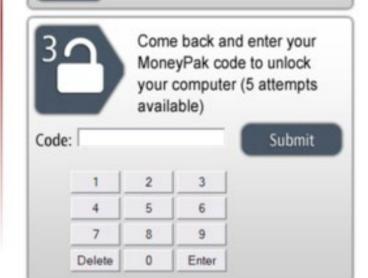
Your case can be classified as occasional/unmotivated, according to title 17 (U. S. Code) § 512. Thus it may be closed without prosecution. Your computer will be unblocked automatically.

In order to resolve the situation in an above-mentioned way you should pay a fine of \$300.

#### HOW TO UNLOCK YOUR COMPUTER:



Get a MoneyPak and purchase it with cash at the register



SCAREWARE - malicious programs that aim to scare users into installing a program and sometimes even paying for it

Assignment from is 'supposed' the solve a problem that does not exist!



> SPYWARE - software that spies on users by gathering information without their consent, thus violating their privacy

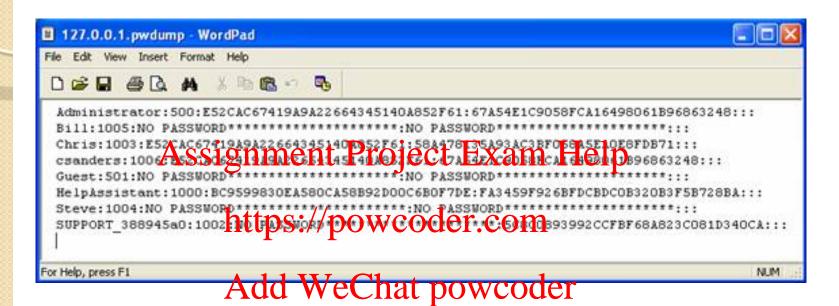
Assignment Project Example jet all detailed information to advertisers about Web sites you visit https://www.fer.parental monitoring of Internet usage by children Add WeChat powcoder



➤ ADWARE – software that delivers advertising content in a manner that is unexpected and unwanted by the user

#### b) Password Cracking

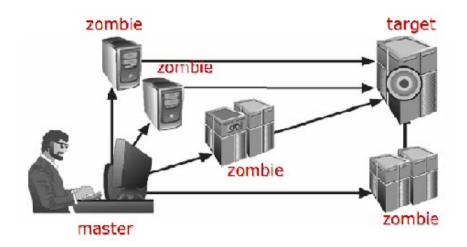
- can be 'on-line' and 'off-line'
- off-line crackers attempt to reverse-calculate a password
   Assignment Project Exam Help
   requires that a copy of Security Account Manager (SAM)
- - a registry (data/filew be abtained
  - > SAM file (c:\windows\system32\config\SAM) contains the hashed Aprelse Matchatt prouse of easword - LM or NTLM hash algorithms are used
  - > cracking procedure: hash any random password using the same algorithm, and then compare to the SAM file's entries
  - > SAM file is locked when Windows is running: cannot be opened, copied or removed (unless pwdump is run by the administrator)
  - > off-line copy of SAM's content can be obtained (e.g.) by booting the machine on an alternate OS such as NTFSDOS or Linux



- types of password cracking attacks
  - > brute force every possible combination/password is tried
  - dictionary a list of commonly used passwords (the dictionary) is used
  - guessing the attacker uses his/her knowledge of the user's personal information and tries to guess the password

#### c) <u>Denial of Service (DoS)</u>

- attacker sends a large number of requests to a target
  - > target gets overloaded and cannot respond to legitimate requests
- \* distributed project coordinated stream of requests is launched from many locations (zombies) simultaneously https://powcoder.com
  - > zombie/bot a compromised machine that can be commanded remotely by the master machine oder
  - botnet network of bots + master machine



DDoS 'as a service'

"Given the ready availability of LPDoSject-Exar service offerings and the increasing affordability of such services or an affordability of such services are at a greater risk than ever of falling victim to a LPDoS attack that cripple network availability and productivity."

http://securityaffairs.co/wordpress/33916/cyber-crime/verisign-ddos-attacks-as-a-service.html

Service Name	Service Pricing (USD)				
Xakepy.cc	1 hour starts at \$5 24 hours starts at \$30 1 week starts at \$200 1 month starts at \$800				
World DDoS Service	1 day starts at \$50 1 week starts at \$300 1 month starts at \$1,200				
n Help  King's DDoS  Service	1 hour starts at \$5 12 hours starts at \$25 24 hours starts at \$50 1 week starts at \$500 1 month starts at \$1,500				
MAD DDoS Service	1 night starts at \$35 1 week starts at \$180 1 month starts at \$500				
Gwapo's Professional DDoS Service	1-4 hours at \$2 per hour 5-24 hours at \$4 per hour 24-72 hours at \$5 per hour 1 month at \$1,000 fixed				
PsyCho DDoS Service	1 hour for \$6 1 night for \$60 1 week for \$380 1 month for \$900				
DDoS Service 911	1 night for \$50				
Blaiz DDoS Service	1 day for \$70 1 week starts at \$450				
Critical DDoS Service	1 day starts at \$50 1 week starts at \$300 1 month starts at \$900				
No. 1* DDoS_SERVICE	1 day starts at \$50 1 week starts at \$300 1 month starts at \$1,000				

#### **Example: Mafiaboy story - DDoS**

In 2000, a number of major firms were subjected to devastatingly effective distributed denial-of-service (DDoS) attack that blocked each of their e-commerce systems for hours at a time. Victims of this series of attacks included: CNN.com, eBay, Yahoo.com, Amazon.com, Dell.com, ZDNet, and other firms. https://powcoder.com

The Yankee Group estimated that these attacks cost \$1.2 billion in

48 nours: Add WeChat powcoder \$100 million from lost revenue

\$100 million from the need to create tighter security

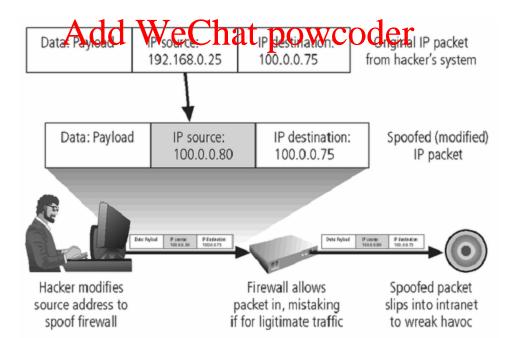
\$1 billion in combined market capitalization loss.

At first, the attack was thought to be the work of an elite hacker, but it turned to be orchestrated by a 15-year-old hacker in Canada.

He was sentenced to eight months detention plus one year probation and \$250 fine.

#### d) **Spoofing**

- insertion of forged Internet identification data in order to gain an illegitimate advantage
- \* type Spignment Project Exam Help
  - > IP Spoofing creation of IP packets with a forged source IP address, e.g. for the purpose of 'passing through a firewall'



- types of spoofing (cont.)
  - ➤ Email Address Spoofing creation of email messages with a forged sender address, e.g. for the purposes of social engineering and data phishing Assignment Project Exam Help



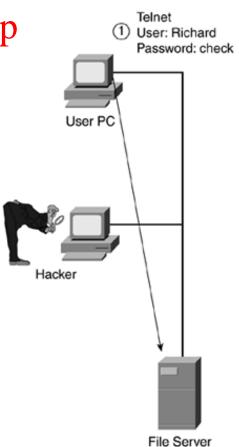
- types of spoofing (cont.)
  - ➤ Referrer or User Agent Spoofing creation of HTTP requests with forged fields in order to gain access to a protected web-site
    - \* same sites allow access to their material only from certain approved (login) pages and/or only to humans

https://powcoder.com

		Goo	gle goo	ogle sites								
			Wel		URLANTE COMM	zech	at/r	powcod	1.html			
			Abo	ut 1,400,000,000	Request Headers	Request B	ody F	Response Headers	Response Body	Cookies	Initiator	Timings
		Google Sites - F sites.google.com/ Thinking of creating a share webpages. Lea You've visited this pa- Google Sites			Key		Value					
					Request		GET /Protocols/rfc2616/rfc2616-sec14.html HTTP/1.1					
					A		text/html, application/xhtml+xml, */*					
		Sites Thinking of crea Google Site Vis			Referer		http://www.google.com/url?sa=t&source=web&cd=3&ved=0CC4QFjACE					
					Accept-Language		en-US					
					User-Agent		Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; WOW64; Trident/5					
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7	<del>_</del>		1	رين	Connection		Кеер	-Alive				
_												

#### e) **Sniffing**

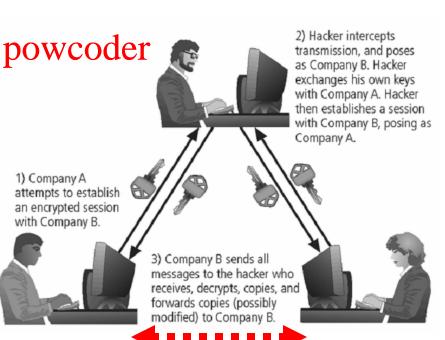
- use of a program or device that can monitor data traveling over a network
  - what is the property of the pr
  - wireless sniffing is particularly simple, due to the 'open' nature of the wireless medium
  - popular sniffers:
     Wireshark wired medium
     Cain & Abel wireless medium



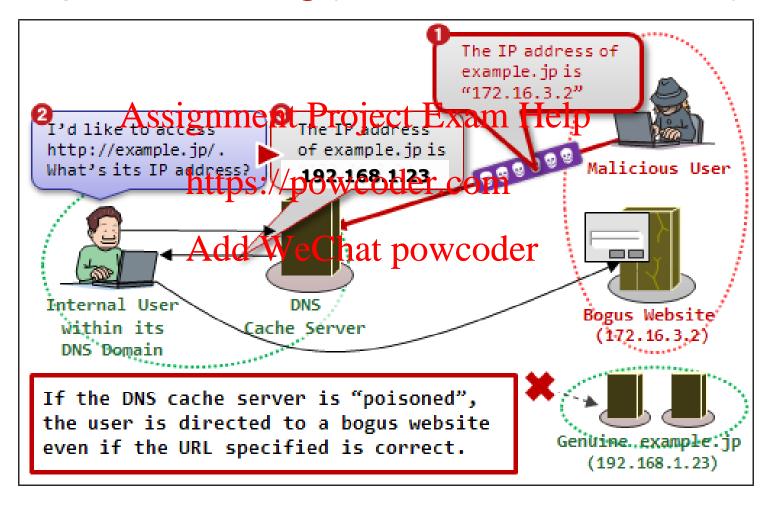
#### f) Man-in-the-Middle Attacks

- gives an illusion that two computers are communicating
   with each other, when actually they are sending and
   receixing gata with property between them
  - > spoofing and/or sniffing can be involved https://powcoder.com
- examples:
  - Add WeChat powcoder

    passive attacker records & resends data at a later time (acts as a signal/packet repeater)
  - active attacker intercepts, alters and sends data before or after the original arrives to the recipient



**Example: DNS Poisoning** (active Man-in-the-Middle attack)



#### **Social Engineering**

- process of using social skills to manipulate people into revealing vulnerable information
  - > either by believing that an email came from a legitimate person or believing that a <u>web-site</u> is the real web-site, <u>or both!</u> https://powcoder.com

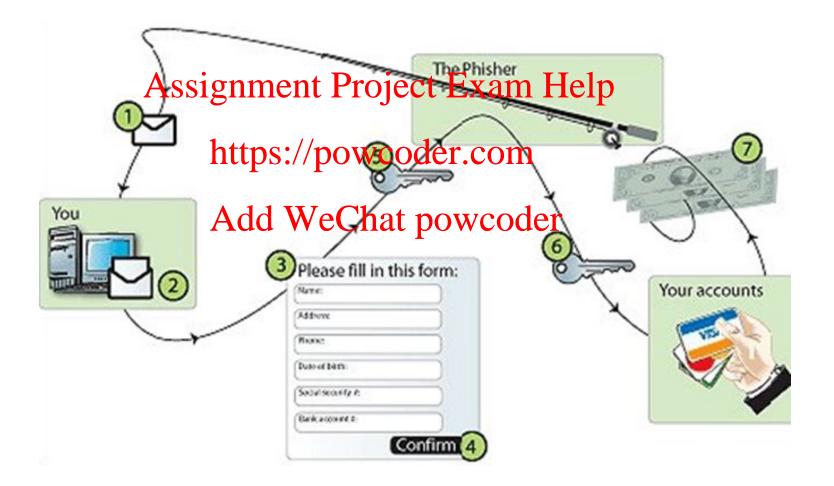
#### **Phishing**

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  attempt to gain sensitive personal information by posing as a legitimate entity
  - > SIMPLE PHISHING: an email is sent to the victim informing them of a problem (e.g. with their email or banking account) and asking them to provide their username, password, etc.;

'From' email address is spoofed to look legitimate, 'Reply To' email address is an account controlled by the attacker

#### **Example:** Simple Phishing



http://www.itknowingness.com/page/2/

> SOPHISTICATED PHISHING: an <u>email</u> is sent to the victim containing a link to a bogus <u>website</u> that looks legitimate

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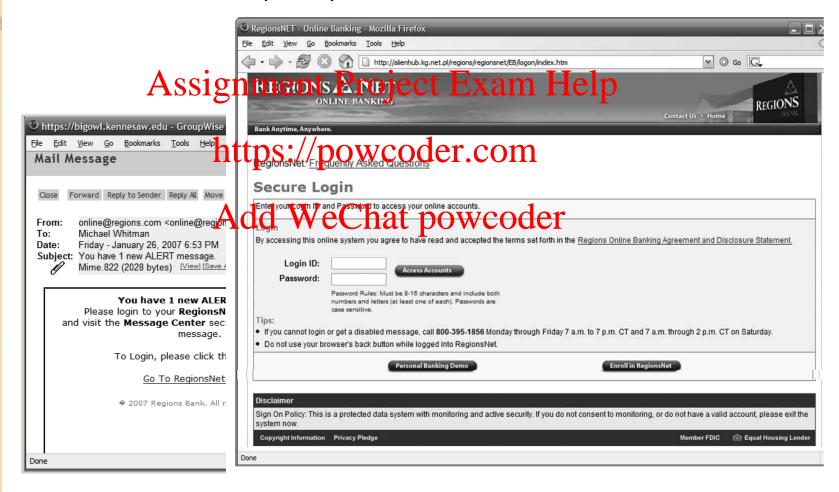
https://powcoder.com

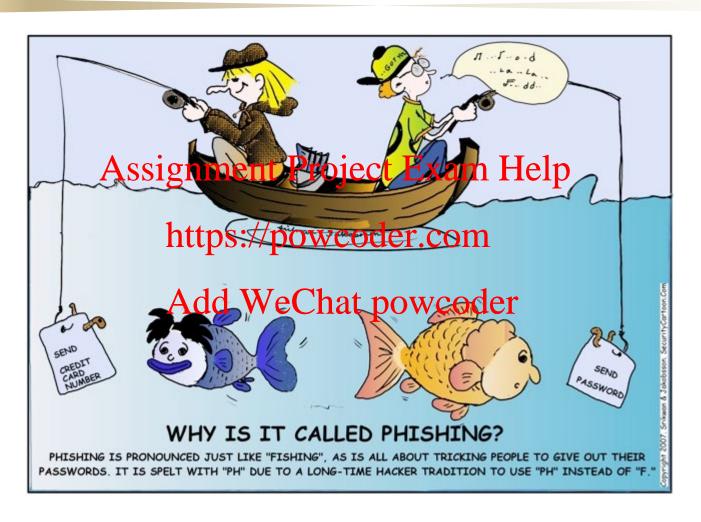
Example: Phishing using URL Links Embedded in HTML-based Emails

http://1example.link.com

http://53d8b.malicious\_phishing\_site.com/index.php

Example: Phishing using URL inks Embedded in HTML-based Emails (cont.)



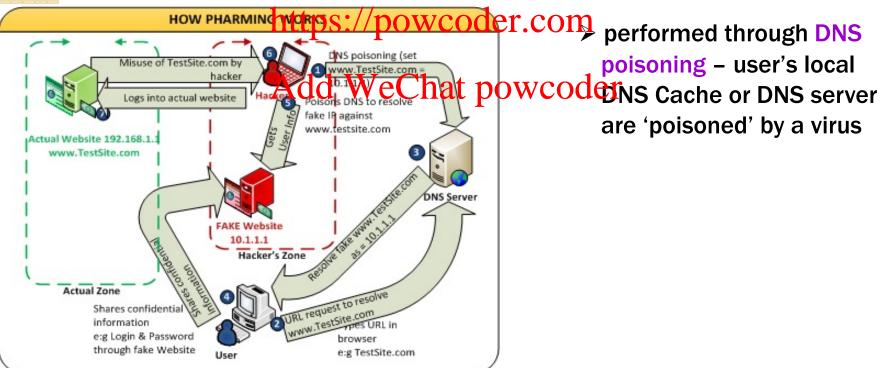


http://www.informacija.rs/Clanci/Phishing-Obmanjivanje-korisnika.html

#### i) **Pharming**

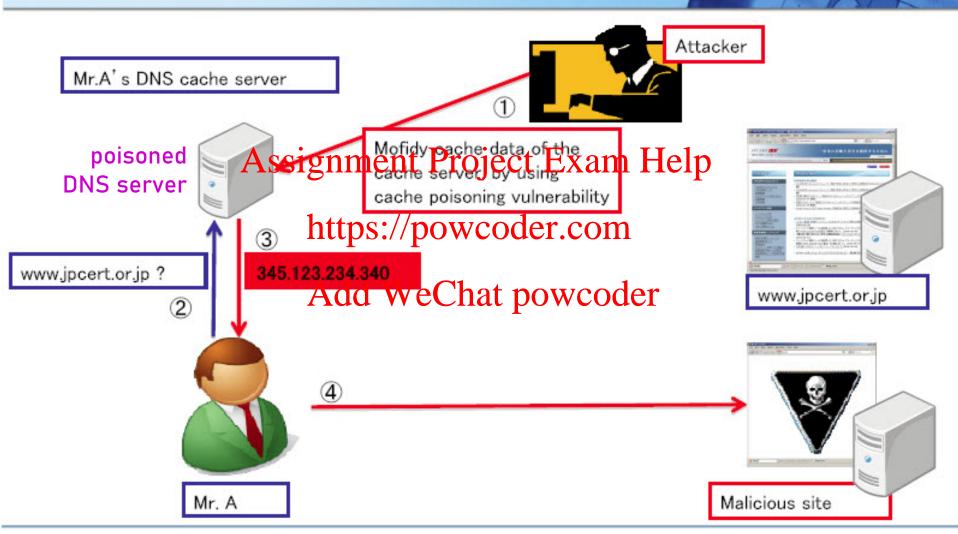
nttp://www.itmatrix.com/FraudManagement/AntiPharming.html

- phishing is accomplished by getting users to type in or click on a bogus URL
- pharming gadirects pusers to false website without them even knowing it typed in or clicked on URL looks OK



## Overview of DNS cache poisoning vulnerability What is DNS cache poisoning





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Biggest Challenge of – How much security?!
 Information Security

Information security should balance protection & access - a completely secure information system would not allow anyone accessbs://powcoder.com

