

Cyber Crime

Definition: <ul style="list-style-type: none">- criminal / illegal activity- involves unlawful access to computer system- committed on internet- steals data/information		Example: <ul style="list-style-type: none">- Stealing credit card information- Breaking into government website		
History:				
1st cybercrime: <ul style="list-style-type: none">- France, 1820- person details: Name: Joseph Manie Job; textile engineering		1st spam email <ul style="list-style-type: none">- 1978 1st virus: <ul style="list-style-type: none">- Installed on Apple Computer- 1982		
Category of Cyber Crimes		Types of Cyber Crimes (Based on Victims)	Cause	Characteristics
Target	Weapon	4 victims Crime Against <ul style="list-style-type: none">1) Individual2) Property3) Organization4) Society at Large	1) Cyber war 2) Money income / Financial gain 3) Take revenge / insider threats 4) Political Campaign 5) Having fun 6) Recognition and achievement	1) Easy access to system 2) 24/7 opportunity to do crime 3) Less risk and cost 4) More profit 5) Can't detect criminal's location easily 6) Proof of crime – damaged easily 7) Can do crime internationally 8) Can hide/fake own identity
Use computer to attack another one	Use computer to commit real world crime			
Ex: Hacking, virus attacks	Ex: cyber terrorism, credit card fraud			

Prevention:

Cyber Laws in Pakistan:		Safety tips:	Cyber Security:
a) Electronic Transaction Ordinance 2002: <ul style="list-style-type: none">- 1st IT Law (now not applicable)- Protects Pakistani E-commerce- Protects Pakistan’s critical infrastructure- Taken from foreign law	b) Electronic/Cyber Crime Bill 2007 <ul style="list-style-type: none">- Promoted by the president of Pakistan- Applicable from 31 December 2007- Deals with:<ol style="list-style-type: none">1) Cyber terrorism2) Data damage3) Electronic fraud4) Spoofing5) Unauthorized access to code- Punishment: globally and locally given<ol style="list-style-type: none">1) Imprisonment2) Fine- Responsible: FIA (Federal Investigation Agency) Investigate and charge case	<ol style="list-style-type: none">1) Use antivirus software2) Insert firewalls3) Uninstall unnecessary software4) Maintain backup5) Check security settings6) Never give information to strangers7) Learn more about internet privacy	<ul style="list-style-type: none">- Branch of computer security- Related to internet <p>Objective:</p> <ul style="list-style-type: none">- Establish rules to use against attack over the internet <p>Advantages:</p> <ul style="list-style-type: none">- Save from critical attacks- Safe browsing- Secure incoming/outgoing data processing

Different types of cyber-crimes (and how done):

Virus Dissemination (Spreading) <ul style="list-style-type: none"> What is virus? Malicious software that attaches itself to another software Solution: <ol style="list-style-type: none"> Keep regular backup of important files Be careful about opening email attachment Be careful of attachments that has .exe, .vbs, .scr, .vbe, .dll, .pif, .drv, .bin, .nws, .bat, .ocx, .shs etc file extension. 	Computer vandalism <p>Def: Damaging/destroying data by transmitting virus rather than stealing</p> <p>Prevention: Not giving permission to software without reading the agreement</p> <hr/> <p>Software piracy</p> <hr/> <p>Def: Theft of software through illegal copying of genuine programs</p> <p>Cause: not using original software (costly)</p> <p>Prevention: serious attempt taken by the organization against the people involved in the distribution of pirated software</p>	Blackmailing <p>Taking Control of FB account by sending phishing link or after mobile lost/theft and demand money.</p> <p>Defacing by Photoshop or other editing tools and posted in social media/YouTube and blackmailing.</p> <hr/> <p>Mostly committed by the young to take revenge after breaking up relations.</p>	Financial Crime <p>giving attractive advertising on the website or enticement by email or social media</p> <p>➤ Electronic Card Fraud</p> <p>➤ Visa Processing fraud</p>	Credit Card Fraud <p>For personal reasons, an individual uses another individual's credit card</p> <p>The owner of the credit card and the card issuer are unaware of the fact</p> <p>Occurs in</p> <ul style="list-style-type: none"> Online banking Online shopping <p>Solution:</p> <ol style="list-style-type: none"> One can't use others credit card because of <ol style="list-style-type: none"> Mobile security code 2 step verification Ethical conduct <ul style="list-style-type: none"> Enforced by bank authority 	Cyber Pornography <p>Pornographic pictures, photos, and writings (by exchange of money)</p> <p>Online Service</p> <p>Live Video Chat</p> <hr/> <p>Sextortion</p> <hr/> <p>manages to get nude pic or video of victim</p> <p>demands money</p> <hr/> <p>Spreading hate speech</p> <hr/> <ul style="list-style-type: none"> Attacking political/religious ideology <p>target: communal riot</p> <p>Hate speech to any community</p>	Spoofing <p>Send fake mail</p> <p>Done by faking/hiding identity</p> <p>Ask to provide sensitive data</p> <p>Find personal/financial details</p> <hr/> <p>3 ways:</p> <ol style="list-style-type: none"> Email spoofing IP spoofing Fake identity <p>Solution:</p> <ol style="list-style-type: none"> Keeping computer system updated Using a good antivirus software Don't open the mail from unknown sender Ignore mails that has <ul style="list-style-type: none"> No sender names Your name in sender details 	Email Spoofing <p>Def: A spoofed email is one in which e-mail header is forged so that mail appears to originate from one source but actually has been sent from another source</p> <hr/> <p>Hacking</p> <hr/> <p>Def: Unauthorized access to computer system by a hacker</p> <p>3 types of hackers:</p> <ol style="list-style-type: none"> White hat hackers Black hat hackers Gray hat hackers 	Cyber terrorism <p>Def: intentional use of computers, networks, and public internet to cause destruction and harm for personal objectives.</p> <p>Purpose of using social media:</p> <ul style="list-style-type: none"> Motivation Recruitment Training Fund Collection Claim of attack <hr/> <p>Prevention Law:</p> <ol style="list-style-type: none"> Punishment: 7 Iranians work for their govt Reason: Hacking Punishment: sent to jail Place: Rawalpindi Reason: blackmailing on social media
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