CIS4203.01   **Brandon Thompson**

Dr. Ashokkumar Patel

Notes CIS4203: Digital Forensics

0.1   Role of computers in crimes

- Computers can be the **target** of a crime.

- The **instrument** of a crime.

- The **evidence repository** storing valuable information about the crime.

Depending on the role of the computer in the crime, either a target an instrument or a storage location, the forensic analyst will check different locations.

Cybercrime is increasing because the internet has made targets more accessible, the risks are much lower than traditional crimes. Any cyber crime is possible from any remote site.

0.2   Cyber crimes

1. Identity theft

2. Hacking systems for data

3. Cyber stalking and harassment

4. Internet fraud

5. Non-access computer crimes

6. Cyberterrorism

0.2.1   Identity theft

Identity theft is any use if another person's Identity, without and with knowledge or permission of that person, typiclly to commit financial fraud.

There are three common methods to perpetrate identity theft:

1. Phishing

2. Spyware

3. Discarded information

0.2.2   Hacking Systems for data

1. SQL Injection

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2. Cross-Site Scripting

   - Look for any scripts in the website that are not coded by the websites programmers.
   - Search the web server's logs for any redirect messages, then determine if any of these redirects cannot be accounted for via legitimate web coding.

3. Password Cracking

   - after cracking the password, typically a reboot is required, so the investigator could look for reboots followed by an administrator login.
   - Physical security

4. tricking tech support

   - First attacker writes script into the startup folder to create a new administrator.
   - Investigator should look for any unrecognized scripts.

0.2.3   Cyber Stalking

Use of electronic communications to harass to threaten another. Investigators will ask three questions:

1. Is it possible?

2. How frequent? One time is not stalking, repeated behavior is.

3. How serious? Specific and serious threats are more concerning.

0.2.4   Fraud

Fraud is a broad category of crime that can encompass many different activities.