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Reconnaissance

- Attacker gathers publicly available data

 - People
 Corporate culture
 Technologies in use

 - Terminology
- This is an important step as it will help focus

Inventory

Maintain an inventory of what you find

- Keep a log bogCreate a spreadsheet
- Record key information

 - Target names
 Search queries used
 OSs in use
 Known vulnerabilities
 Any passwords found

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More on Inventory

• Leave room to annotate future information that may be discovered as you go

- Examples:
 - Open ports from port scanning
 - Search from compromised hosts

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Competitive Intelligence

- Think like a business competitor

 - Lines of business
 Major products or services
 Who's in charge
- Who's in charge
 Officers
 VPs
 Press Releases
 Where are their physical locations
 Who are the major competitors in there market place
 The same kind of information you would gather for a job interview.

Search Engines

Don't just use Google

- BingYahooAskDuckDuckGo
- All search engines filter data, but they don't all filter the same way

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Open Job Posting

- Job requirements can often provide insight into technologies in use, and where staffing shortages may result in weaknesses
 Check multiple sites

 - Dice.com
 Organizations site
 http://www.temple.edu/hr/departments nt/jobs_within.htm

- Local job sites
- http://regionalhelpwanted.c

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ARIN

- American Registry for Internet Numbers

 - Regional Internet Registry for Internet realised
 Regional Internet Registry for US, Canada, and many Caribbean islands
 ARIN is one of five regional registries
 Provides services related to the technical coordination and management of Internet number resources
 - https://www.arin.net

	ARIN	
Function	Point of Contact	
Tech	FERRE3-ARIN (FERRE3-ARIN)	
Abuse	FERRE3-ARIN (FERRE3-ARIN)	
Admin	FERRE3-ARIN (FERRE3-ARIN)	
Point of Contact		
Name	Ferrero, Adam	
Handle	FERRE3-ARIN	
Company	Temple University	
Street	3rd floor Telecommunications 1101 W Montpomery Avenue	
City	Philadelpha	
State/Province	PA	
Postal Code	19122	
Country	US	
Registration Date	2011-04-25	
Last Updated	2014-07-02	
Comments	http://www.temple.edu/cs	
Phone	+1-207 (Mobile) +1-215 (Mine)	
Email	adam@temple.edu	
RESTM Link	http://whois.arin.net/hest/por.FERRE3-ARIN	
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Dig (Domain Information Groper)

- The Dig command is used to gather additional DNS information
- May also be used to make zone transfers.
- Zone transfers may include details around other assets within an organization.
- CAUTION, don't go further then basic dig command on the next page as you may start triggering alerts in more security focused organizations.

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Windows Dig

- Dig is available for windows 7
- Site:
- https://help.dyn.com/how-to-use-binds-dig-tool/___

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Google Cache

- &strip=1 It's magic
- Right click the cache button and copy shortcut
- Paste short cut into notepad and append &strip=1 to the end
- Copy and paste into URL
- Now you get Google's cache without leaving a footprint in the target servers logs

- If interested in learning a bit about Ruby, try the below. This is <u>not</u> an assignment for the class. Just something you might find useful.
- Link to Language
 <u>https://www.ruby-lang.org/en/</u>
- Link to Interactive Ruby Website
 https://ruby.github.io/TryRuby/

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Due for Next Week

- 1st formal assignment
- From Syllabus
 - (student presentations) Reconnaissance exercise using only publicly available information, develop a profile of a public company or organization of your choosing
 - You may work in teams, or separately
 One to two page Executive Summary
 - Short (no more then three slides, no welcome slide) presentation
 - See "Exercise Analysis" tab for more details

