



Instructor

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Section Objectives

After completing this section, you will be able to:

- Discuss the issue of social media in security
- Describe and show examples of phishing
- Show methods of discovering and processing online attacks

Security Importance

- To protect your finances
- To protect your data
- To protect your country
- To protect your job
- To protect your way of life
- To protect your life



Human Influence in Security



"People are the underlying cause of the need for security."

Donn Parker, Fighting Computer Crime

Social Engineering

- Dumpster diving and shoulder surfing
 - Organizational charts, passwords, access codes, and log files
- Use of tools
 - Google, Bing, Yahoo!, etc.
 - www.learnwebskills.com/company
 - www.whitepages.com
 - Hoover's, Inc.
 - EDGAR Online, Inc.



Demo

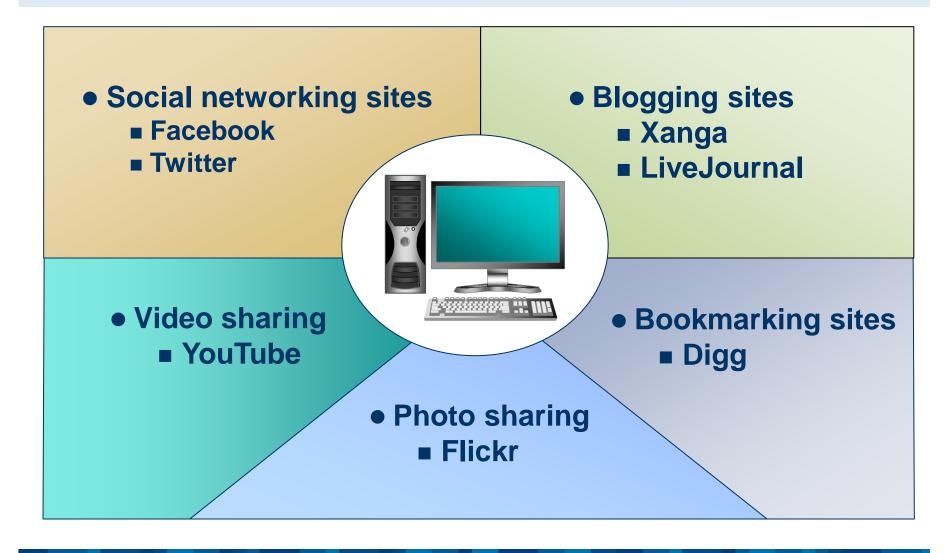
Discussion



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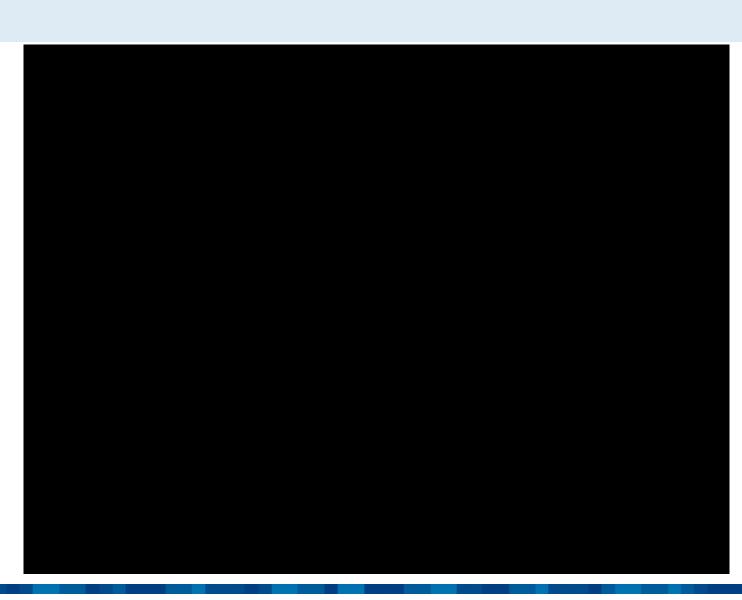
Types



Demonstration







Vulnerabilities

Profile Information

Name:

John Doe

Address:

1234 Main Street

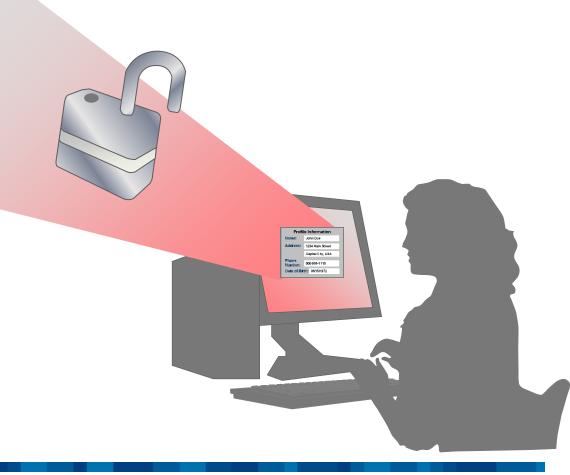
Capital City, USA

Phone Number:

000-555-1110

Date of Birth: 06/15/1972





Items At Stake

- Social security number
- Mother's maiden name
- Birth date
- Billing addresses
- E-mail addresses
- Account numbers
- Password
- System information
- Company or government data
- Who, what, and where you work

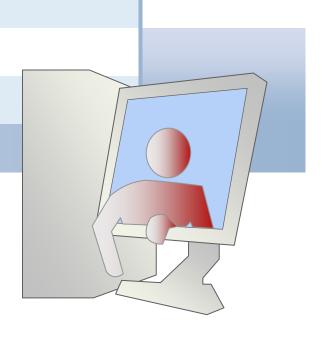


Now that I have your ID

- Let Search about you
- Let create a New you

Attacker Mentality

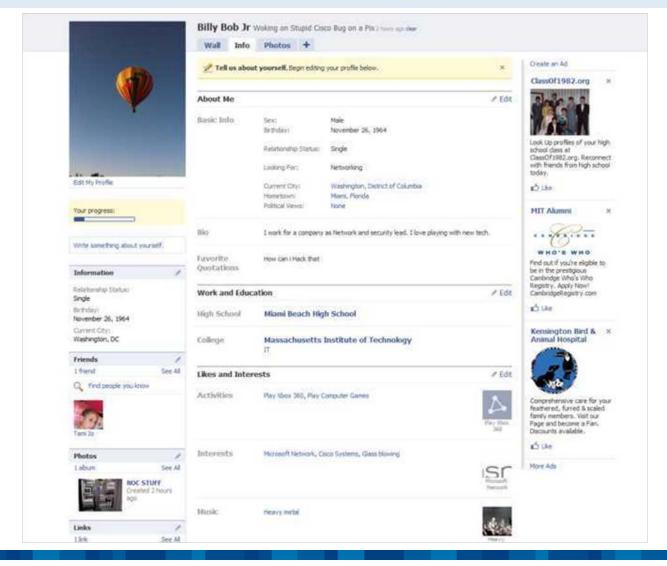
- They look for holes
- They think creatively
- They think outside of the box



Billy Bob, Jr.



Billy Bob, Jr.

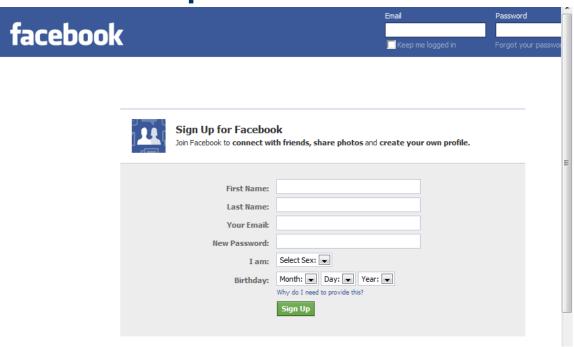


Billy Bob, Jr.

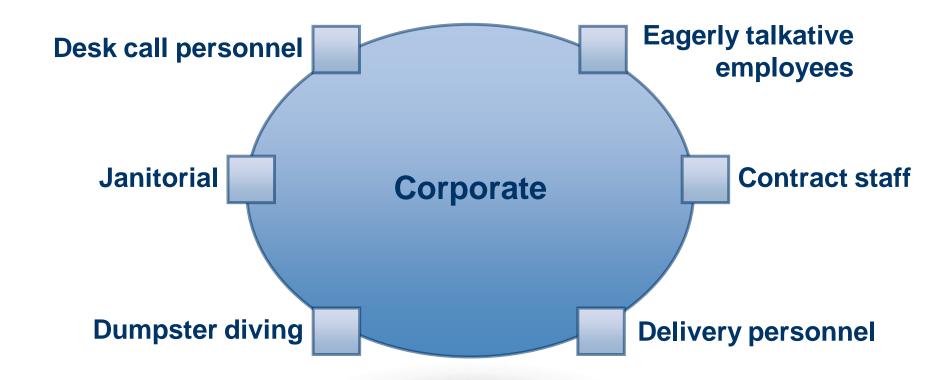


Profile Management

- Social networking profiles
 - Koobface outbreak
 - Hoax applications
 - Profile information compromised



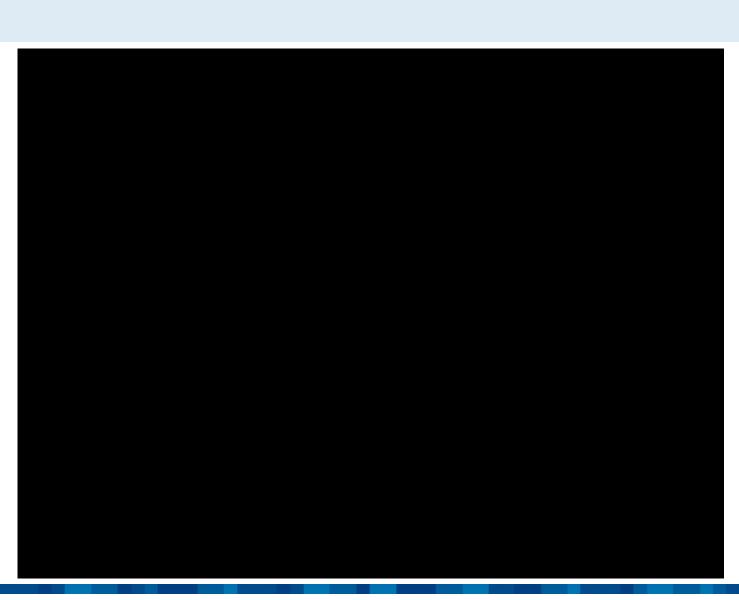
Social Engineering



Demonstration







Discussion





Phishing

- Fraudulent process to acquire:
 - User names
 - Passwords
 - Credit card details
- Appears to be a trustworthy source
 - Banks
 - Social Web sites
 - Auction sites
 - Online payment processors
 - IT administrators

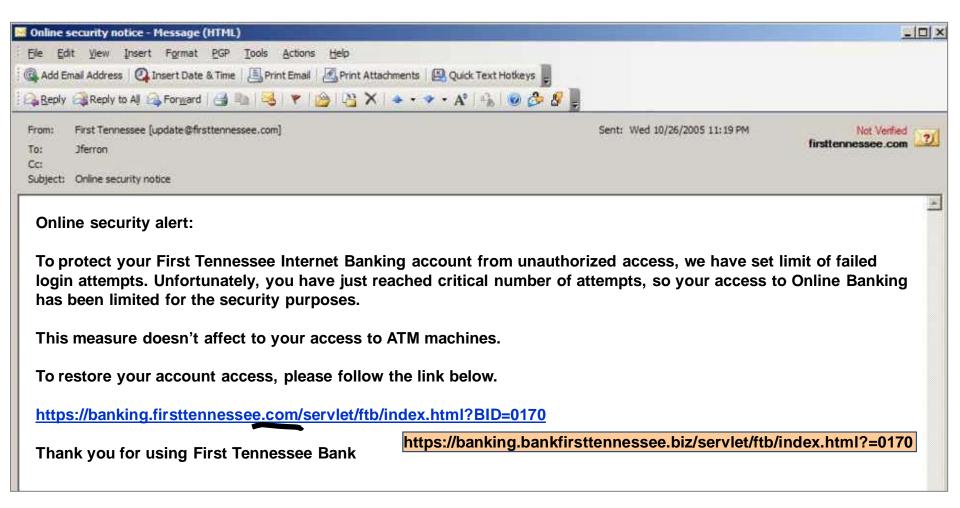


Demonstration



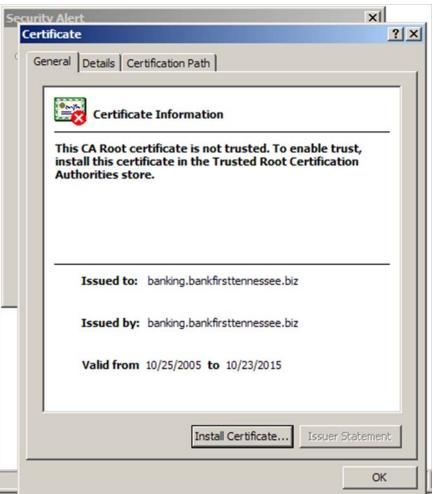


Phishing via E-mail

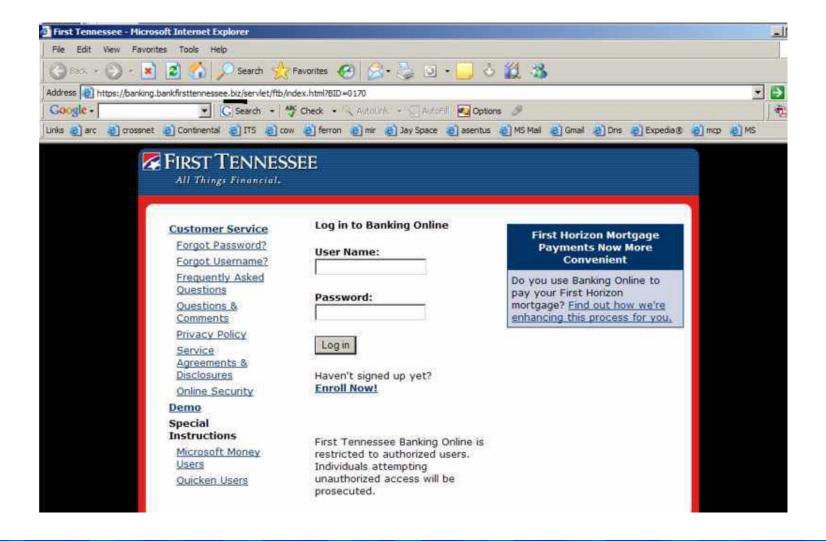


SSL





Phishing Result

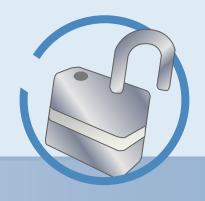


Statistical Data

- 491,815,456 records containing personal information compromised since January 2005
- Example: TJ retail stores (TJX)
 - 45,700,000 credit and debit card account numbers compromised
 - TJMaxx
 - Marshalls
 - HomeSense
 - AJWright
 - TKMaxx
 - Winners and HomeGoods stores in Canada
 - 48 million more people affected, according to latest records

Security Breach Sources

- Lack of commitment from management
- No social motivation
- Incorrect assumptions
 - Not part of job description
 - Not part of performance appraisal
 - No economic motivation



Phishing and Spyware Combined

Dear Jay F

This email was sent by the Citibank server to verify your e-mail address. You must complete this process by clicking on the link below and entering in the small window your Citibank ATM/Debit Card number and PIN that you use on ATM. Card number last 4 are 3467 This is done for your protection because our members no longer have access to their email addresses and we must verify it. This is to prevent any type of online fraud . Citibank is made to protect your identity online. you last login in 9/20

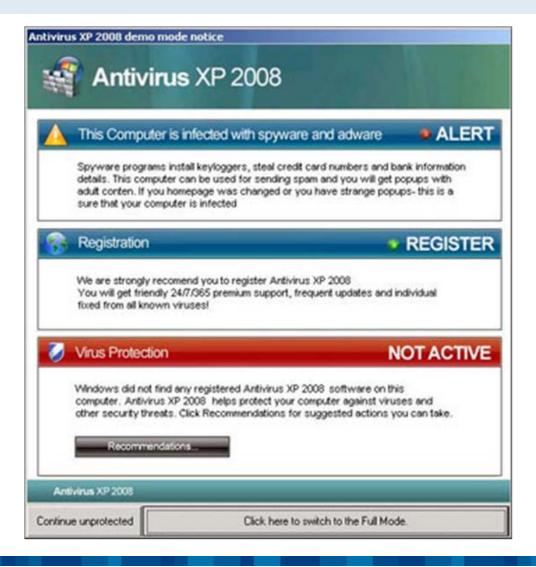
To verify your e-mail address and protect your Citibank account, click on the link below. If nothing happens when you click on the link (or if you use AOL), copy and paste the link into the address bar of your web browser.

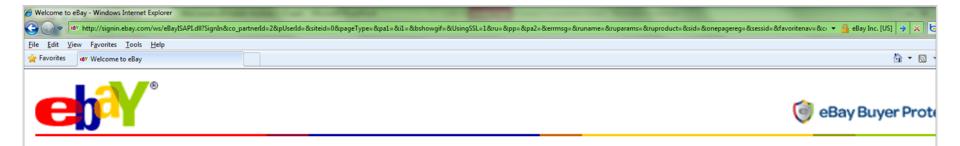
www.citibank.com/signon/popup

Thank you for using Citibank!

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- Bid, buy and find bargains from all over the world
- eBay Buyer Protection covers your purchase price plus shipping.
- Connect with the eBay community and more!

Sign in to your account Back for more fun? Sign in now to bu manage your account. User ID I forgot my user ID

Password

I forgot my password

Questions

Thank you for attending if you have questions

Jayson.ferron@globalknowledge.com