

November 7, 2016

Joe Kraft

presents

***How To
Stay Safe
From People
Like Me***





Protecting yourself in the Online World

Or, How to stay safe from people like me

Who Am I?

- Originally from Illinois
- Moved to Georgetown in 2013
- Taxi Driver, Seat Filler, Diaper Changer
- 20+ Years in IT Industry
- Ran a Security Consulting group for several years
- 4 Years as lead Application Security Analyst for ADP



OMG, the 1337 H4X0R is taking over!

- Clinton Email Hacks
- Yahoo! 500 Million stolen accounts
- DDOS takes out Twitter, Netflix, Amazon by using IoT devices
- Credit Card Skimmers
- JPMC, Target, Home Depot Hacks

OMG, Big Brother is Watching!

- NSA leaks by Edward Snowden and Harold Thomas Martin III
- Police Scan 117 Million Drivers License Photos for Face Recognition Database
- IoT Devices tracking our every move

The 4 W's

- Who Does It
- Why We Do It
- When Do We Do It
- What Do We Do

The Who



http://www.mtv.com/crop-images/2013/11/05/the_who_uni.jpg

- hacker: an expert at programming and solving problems with a computer
- White Hat Hackers – Do it for good
 - I am a White Hat Hacker for ADP
- Gray Hat Hacker – Do it to see if they can
 - Don't have malicious intent but do sometimes cross ethical or legal boundaries
- Black Hat Hacker – Do it for profit or fame
 - These are the ones you read about



<https://goblinbyte.com/2015/08/white-hat-hackers/>



<http://i.ebayimg.com/images/i/252006361159-0-1/s-l1000.jpg>

Why??

- Motivations
 - Money
 - Fame
 - Politics



When

- Holidays
- After a major security breach
- After a catastrophic event
- When you're sleeping
- When you're awake
- When you're bad or good



<http://www.cafepress.com/+1337+clocks>



What We Do

- Target people
- Target companies
- Target credit card skimmers
- Target cars
- Target anything that has a vulnerability...and everything has a vulnerability



http://static9.comicvine.com/uploads/scale_super/4/49348/1032805-lil_jon_dave_chappelle_1_461c9a590dec5.jpg

Protecting Yourself

- Targeting People (Social Engineering)
 - Phishing
 - Fake WiFi Hotspots
 - Credit Card Skimmers
 - Online Research
 - Shoulder Surfing
 - Dropping virus bombs
 - Malware
 - Dumpster Diving
 - Stalking



https://fcw.com/~media/GIC/FCWNow/Topics/Cybersecurity/shield_digital.jpg

Phishing (not the good kind)

- Attempting to get people to provide sensitive information by pretending to be someone/something else
- Mostly from SPAM emails
- Ways to protect yourself:
 - NEVER click a link in an email
 - ALWAYS type in the address yourself
 - NEVER give personal information over the phone if they call you
 - ALWAYS call them back (Bank, Doctor, etc..)
 - NEVER click a link for a prize/award/reward that you didn't sign up for
 - Even if you did sign up for it, find a way to call them directly
 - If you do have to click a link in an email to go somewhere, verify that the address makes sense.
 - I've fooled people into clicking on <http://www.chase.mybankinfo.com>. They saw Chase, assumed it was real, clicked the link, saw a page that looked like their bank's and gave me their username and password. (Not really, but still a good example)



<https://fightingidentitycrimes.com/google-phishing-study/>

Pretty Fly for a WiFi

- Someone sets up a WiFi access point with a seemingly valid name (ex: “Starbucks WiFi”)
 - Can capture all data transmitted by anyone that connects to it
- Ways to protect yourself
 - Don’t have your devices (phone, iPad, Laptop) set to automatically connect to a hotspot
 - Don’t access sensitive websites (banks, medical sites, etc..) from public hotspots
 - If you do makes sure that the address bar in your browser is GREEN... says that the data is encrypted and the site you are at has been verified:

🔒 JPMorgan Chase and Co. [US] | <https://www.chase.com>



Free candy just doesn't cut it these days...

<http://themetapicture.com/the-perfect-bait/>

Credit Card Skimmers

<https://krebsonsecurity.com/all-about-skimmers/>



Fake ATM

<https://krebsonsecurity.com/2013/12/the-biggest-skimmers-of-all-fake-atms/>



Walmart Skimmer

<https://krebsonsecurity.com/2016/05/skimmers-found-at-walmart-a-closer-look/>



At The Gas Pump

<http://dailyheadlines.net/2015/06/do-you-know-how-to-spot-an-atm-skimmer/>

Other Social Engineering Attacks

- Fake Wireless Hot Spots
- Shoulder Surfing
- Dropping virus bombs
- Malware
- Dumpster Diving
- Stalking



<https://i.ytimg.com/vi/fA7Z7E3T8eg/maxresdefault.jpg>



<https://disruptingdinnerparties.files.wordpress.com/2013/09/dumpster-dive.jpg>



<http://www.5startechnology.com/blog/>



What do you mean I just bought a car in Reno? I've never been to Reno!

- Your identity has just been stolen
- Your bank accounts were just drained
- You suddenly start getting billed for medical services you didn't receive
- You just bought a car in Reno even though you've never been to Reno...



Recovering from the bad

- Start the process as quickly as possible!
- Notify the FTC and get an Identity Theft Report
- Notify the police with your ITR information
- Call your credit card company and bank
 - Include any banks that have unauthorized accounts
- Notify the 3 Credit Bureaus
- Government Resources:
 - FTC: <https://www.consumer.gov/articles/1016-recovering-identity-theft>
 - <https://www.identitytheft.gov/>
 - Get a personal recovery plan
 - Will track your progress
 - Offers forms and letters you'll need to send out to recover



<http://www.shutterstock.com/pic-63995851/stock-photo-to-the-words-road-to-recovery-on-the-pavement-of-a-road-with-an-arrow-pointing-up-into-the-sky.html>



**KEEP
CALM
AND
SURF
ON**



<http://www.memegen.com/meme/wsybzz>