The Accelerating Evolution of Cyber Security

What you need to know protect you and your organization
HELLO!

I am Tyler Olson

An entrepreneur who knows & loves technology.
You can find me @TyOlson
Who

Tweet along: #Student360

www.Secure360.org
Who

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Want

➢ Challenge
➢ Passwords
➢ Botnets
➢ Fame
➢ Money
How

- Same Passwords
- Expired Antivirus Software
- Turn off updates
- Click Bad Links
Tech Speak

- Phishing
- E-mail Spoofing
- Unsecured Wi-Fi
- Data Breaches
- Viruses and Malware
- Social Engineering
Phishing
An attempt to acquire sensitive information by manipulating trust
Life Choices
Life Choices
Life Choices

@PayPal is a joke stopping me from using my PayPal account till i send of a bank statement well i am raging 😞😞😞😞

PayPal @AskPayPal_Tech

Hi, We sincerely apologize for this. In order to regain access to your account, Please visit bit.ly/xxxxLxs7

3:11 PM - 19 Aug 2016
We’re Screwed

apple.com in Cyrillic = xn--80ak6aa92e.com

Hey there!

This may or may not be the site you are looking for! This site is obviously not affiliated with Apple, but rather a demonstration of a flaw in the way unicode domains are handled in browsers. It is very possible that your browser isn’t affected.

Read the blog post for the full details
Detecting Phishing

- Does this make sense”
- Hover over links
- Strong security
- Google text of suspicious e-mails
E-mail Spoofing
Fake “from” line in e-mail
Dear member,

Because of an unusual number of invalid login attempts on your account we had to believe that, there might be some security problem on your account. So we have decided to put an extra verification process to ensure your identity and your account security. Until we can collect this information, your access to sensitive account features will be limited. We would like to restore your access as soon as possible and we apologize for the inconvenience.

You must verify your account identity.  

[Login to https://bankofamerica.com/privacy/verify.jsp]

Please Note: If we do not receive the appropriate account verification within 48 hours, then we will assume this Bank account is fraudulent and will be suspended. The purpose of this verification is to ensure that your bank account has not been fraudulently used and to combat the fraud from our community.
Phone Spoofing
Unsecured Wi-Fi

Be Skeptical
Unsecured Wi-Fi

- Airports / Hotels / Coffee Shops
- All non-SSL data can be seen
Viruses / Malware
Can do nearly anything on your devices
Life Choices

The site ahead contains Mall Ware

Attackers currently on Mall Ware.testing.google.test might attempt to install dangerous programs on your computer that steal or delete your information (for example, photos, passwords, messages, and credit cards).

- Automatically report details of possible security incidents to Google. Privacy policy

Details

Back to safety
Life Choices

not an attachment; an embedded image that links out to a fake "sign in with Google" page
Let’s Talk About

- Stuxnet
- Zeus
- NEVER let antivirus expire
- Many companies (including Comcast), provide free
3,436,840
Assume

YOU’VE BEEN HACKED
What To Do

UPDATE EVERYTHING

Windows Update

Restart your computer to finish installing important updates

Windows can't update important files and services while the system is using them. Make sure to save your files before restarting.

Restarting in: 14 min, 37 sec

Remind me in: 10 minutes

Restart now  Postpone
What To Do

USE COMPLEX & UNIQUE PASSWORDS

LastPass
The Last Password You’ll Ever Need.
What To Do

BE SKEPTICAL

Tweet along: #Student360
www.Secure360.org
What To Do

Don’t Click That Link!
If You’re Hacked

➢ Talk to your IT person first
➢ Talk to your lawyer second
➢ Talk to your PR team third
TEXT
TYOLSON to 33444
To Receive a Copy of This Presentation
Contact Me
There’s more to learn

Leave me your business card, tweet me, or email me

TWITTER: @TyOlson
EMAIL: toolson@smcpros.com
PHONE: 651-274-7542
Vulnerabilities
Vulnerabilities

Skimmers

Tweet along: #Student360  www.Secure360.org
Recon

- Exploration to gain info
- Makes stronger attacks easier
- 70% of time on recon
Recon Protection

- Ensure routers don’t give out info they shouldn’t
- Intrusion Detection Systems
- Enforce Security Policies
- Recon yourself
Recon Protection

- Lock ports via firewalls
- Check for unnecessary services on web services
- Disable directory listings
- Strong Passwords!!
Recon Info

- Network Info
- Operating System Info
- Organization Info
- People Info