Cybersecurity Risk Management for Public Libraries: Weapons of Mass Instruction

Presented by Chris Markman, MSLIS





Some background

- > Capstone Project / Fieldwork since 2014
- > Collaborators: Alex Caro & faculty advisor Robert Lyons



BA Political Science & Masters in Public Administration (expected 2015)



MSLIS 2011, MSIT (expected 2016)



Outline

> What we talk about when we talk about cybersecurity?

(sorry Raymond Carver, bad joke)

> Some things we found

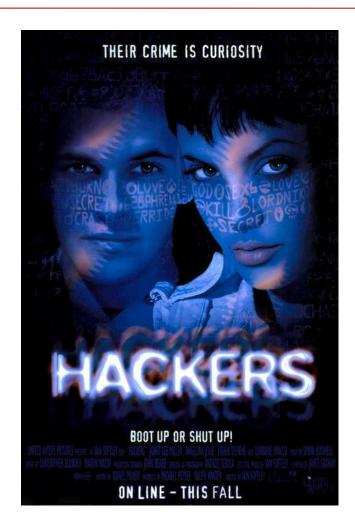
(without getting too specific)

> The value proposition for libraries

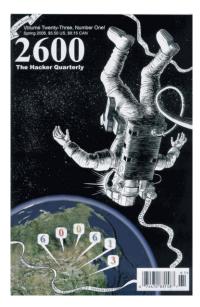
(and how to fund these ideas)



Not Cybersecurity

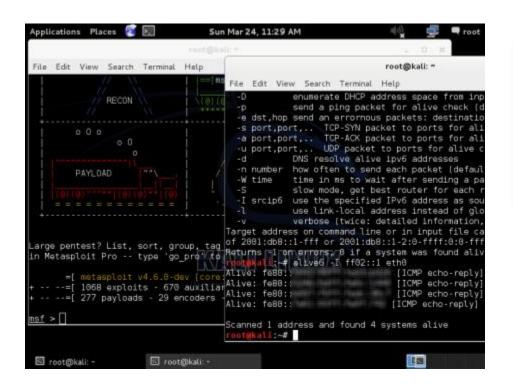


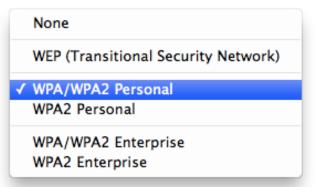






Not this...







Warmer...

YOUR PII CHART™

Take time to inventory the identity relationships you have with the companies, organizations, and individuals you entrust with your personally identifiable information or PII. See how your identity is a PII Chart™, a picture of relationships you've created. Once you visualize the slices of your PII, managing your identity assets becomes easier.

SOCIAL SECURITY NUMBER CONTACT INFORMATION (email address, physical address, telephone and mobile numbers) GOVERNMENT-ISSUED IDENTIFICATION (driver's license, passport, birth certificate, library card)



(smartphone, GPS, camera)

VERIFICATION DATA (mother's maiden name, pets' and kids' names, high school, passwords)

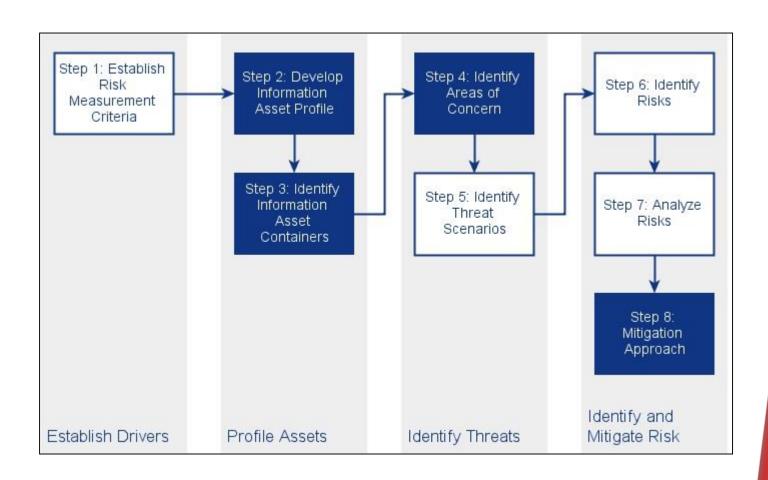
MEDICAL RECORDS INFORMATION (prescriptions, medical records, exams, images)

ACCOUNT NUMBERS
(bank, insurance, investments, credit cards)





OCTAVE Allegro







Things We Found, a.k.a.

The Scary Part?



Wifi Pineapple by Hak5





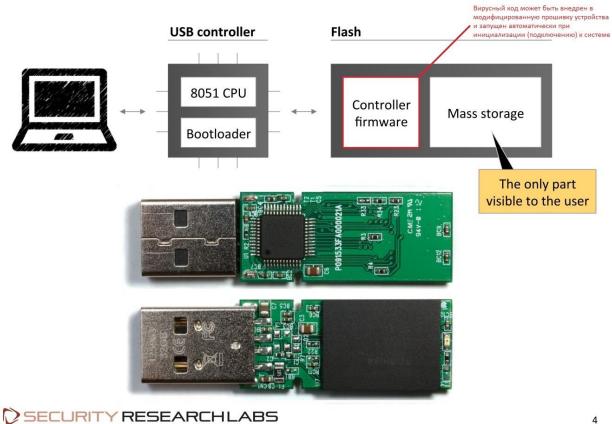
"Wall Wart" PCs





BadUSB Exploit

USB devices include a micro-controller, hidden from the user





Value Proposition

> Security skills = Library Skills. Leverage MOOCs.

Futurelearn.com

Digital Collections

If my computer is broken, I can't stream!

> Reputation and Funding

People really really don't like data breaches...

> YA Programming

Raspberry Pi & Arduino tools. Workforce initiatives...

> Legal Ramifications

Liability, liability, liability



Thanks!
Please check out
sec4lib.wordpress.com
Twitter: @akamarkman

