







WHAT ARE YOUR THREATS?

- Threats come in all shapes and sizes.
- Questions to ask yourself:
 - What is valuable and what is vulnerable?
 - What can we do to safeguard against and mitigate threats?
 - What can we do to prepare ourselves?
 - What can we do to educate our users?



CYBER THREATS



50 SHADES OF HACKER

- Black Hat, Gray Hat & White Hat
- Cracker
- Cyber terrorist
- Hactivist
- State-sponsored hacker
- Spy hacker
- Script kiddie





MALWARE

- Worm
- Trojan horse / Logic bomb
- Virus
- Rootkits
- Botnets

A pixelated red virus icon with a central square and four arms extending outwards. Below it are two smaller, fainter versions of the same icon.

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10 SIGNS THAT YOU ARE COMPROMISED

1. Antivirus software detects a problem
2. Pop-ups suddenly appear (may be selling "security software")
3. New programs installed
4. Computer passwords have changed
5. E-mail spam being sent
6. Increased network activity
7. Unknown programs requesting access
8. Security programs uninstalled
9. Computer doing things by itself
10. Internet browser home page changed or new toolbar


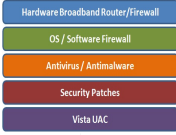




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BEST PRACTICES FOR MALWARE THREATS



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SECURITY: DEFENSE IN DEPTH



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HUMAN THREATS



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SOCIAL ENGINEERING

- The art of deception that heavily relies on psychological manipulation during human interaction to elicit confidential information.

– Physical Attacks

- Impersonation
- Tailgating
- Theft

– Electronic Attacks

- Email
- Telephone



SOCIAL ENGINEERING CONT.

• Password Attacks:

- Dictionary & Brute Force

• Man-in-the-Middle Attacks

• Phishing

• Pharming

- Typosquatting & DNS spoofing

Hi! As part of our security measures, we regularly screen activity in the Facebook system. We recently contacted you after noticing an issue on your account.

Our system detected unusual Copyrights activity linked to your Facebook account. please follow the link below to fill the Copyrights Law form.

<http://www.facebook.com/copyrights-form>

Note: If you don't fill the application your account will be permanently blocked.

Regards,

Facebook Copyrights Department

Popular company

"JebBush.com redirects to Trump's official website"

E-Mail Phishing Examples

SPOTTING A PHISHING SCAMSPAM EMAIL

EXAMPLE #1

A phishing email is sent in the hopes that you will divulge bank or the account details (passwords, personal information, etc.) that they can exploit for their own gain.

A phishing email address you don't recognize.

From: BankofAmerica@woodpeckerbank.com

Date: Monday, January 10, 2016 1:10 PM

Subject: VERIFY YOUR ACCOUNT IMMEDIATELY

Dear Account Owner,

A phishing email address you don't recognize.

URGENT WARNING

This email is from woodpeckerbank Customer Care and we are sending it to all registered users without our Account Owner's permission. We are having

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BEST PRACTICES FOR HUMAN THREATS



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THE HUMAN ELEMENT PATCH

A successful defense depends on having good policies in place ensuring that all employees follow them.



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THE HUMAN ELEMENT PATCH CONT.



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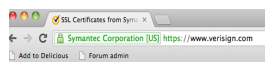
ENFORCE PASSWORD POLICIES

- A **good password** is:
 - **private**: it is used and known by one person only
 - **secret**: it does not appear in plaintext in any file, program, or written on a piece of paper pinned to the terminal
 - **easily remembered**: so there is no need to write it down
 - **complex**: at least 8 characters in length and a mixture of uppercase letters, lowercase letters, numbers, and special characters
 - **not guessable**: no program in a reasonable amount of time could crack it
 - **changed regularly**: a good change policy is every 3 months

PASSPHRASE SUGGESTIONS

- Combine 2 unrelated words (Mail + phone = m@!lf0n3)
- Abbreviate a phrase (My favorite color is blue = Mfcibblue)
- Music lyric (Happy birthday to you, happy birthday to you, happy birthday dear John, happy birthday to you = hb2uhb2uhbdJhb2u)

SECURE ONLINE BANKING & BUSINESS



EMPOWER YOUR USERS

- To stop and question suspicious persons and have them provide proof of identification.
 - Do they have access permission, i.e., a color-coded lanyard or badge?
- To take preventative and/or corrective action if the suspicious person is not cooperating.
 - Ask them to leave and escort them out of the building.




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- Empower every level on the business hierarchy—from the C-level to management and leadership to employees—to support one another in providing security.



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SECURITY AWARENESS



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IMPLEMENTING SECURITY AWARENESS

- Real life social engineering exercises
 - Suspicious persons
 - Insider threats
- Security Awareness Training
- Senior Leadership Security Training
- Executive and Board Security Training

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*We are working to
make the human
element the
strongest link as
our first line of
defense.*



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Questions?