


WASHINGTON STATE UNIVERSITY




Awareness, Confidence, and Policies

WSU Computer and Network Security Awareness Training

Revised January 2015

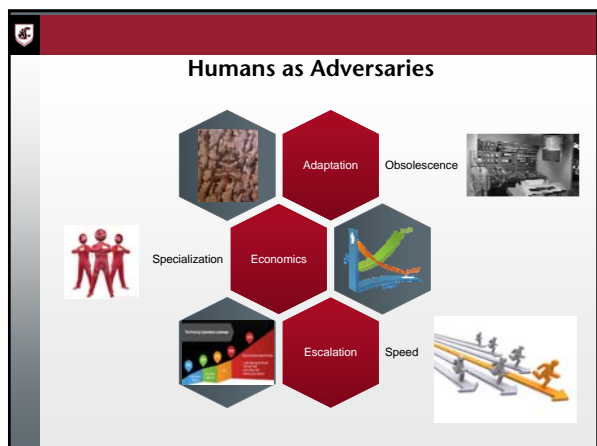
WHAT'S IN IT
FOR ME?



- Information
- Reduced Risk
(At work and at home)
- Reduced Anxiety
- Hopefully More Sleep

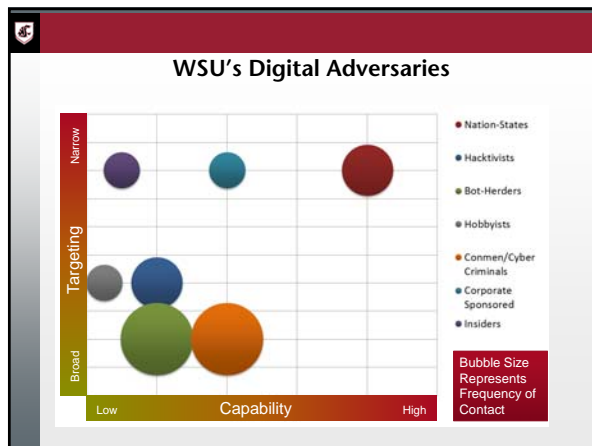
Agenda

- Awareness
 - Who are we up against and why?
 - What are we up against?
- Confidence
 - How can I help myself and WSU?
 - Examples
- Policy
 - What is expected of me?









Confidence

How can I help myself and WSU?

- Trust, but Verify
- Reducing Anxiety: Keeping Yourself Safe
- Reducing Risk: Keeping WSU Safe
- What About the Cloud?

Trust, but Verify

IT'S ALL ABOUT TRUST

- Identity and Authenticity
 - More than just usernames and passwords
- Indicators
 - Can be positive or negative
- Nothing is black & white

THINK before you click.

Reducing Anxiety: Keeping Yourself Safe

The diagram consists of four red rounded rectangles arranged in a 2x2 grid. The top-left rectangle is labeled 'Operating System', the top-right is 'Security Software', the bottom-left is 'Web Browser', and the bottom-right is 'Installed Software'. In the center, overlapping all four rectangles, is a grey rounded rectangle with the text 'Software Security Updates'.

Patch Early, Patch Often
Set to Auto
What are Zero Days?

Do not buy software in response to unexpected pop-up messages or emails.
Especially messages that claim to have scanned your PC.

Reducing Anxiety: Keeping Yourself Safe

The diagram features a central grey circle labeled 'Passwords'. Surrounding it are six red circles, each containing a password tip: 'At least 10 Characters' (top), 'Mix Cased Letters, Numbers, Special Characters' (top-right), 'Store In Secure Location' (bottom-right), 'Change at least every 6 months' (bottom), 'Do Not Share via Phone, Text or Email' (bottom-left), and 'Do Not Use Same Pass for Many Accounts' (top-left). These circles are connected by a grey line.

Be Unpredictable
Example Password:
1Dnlg34h1Dnlt514!!

It would take 1 desktop
PC 71 Quadrillion years
to crack this password.

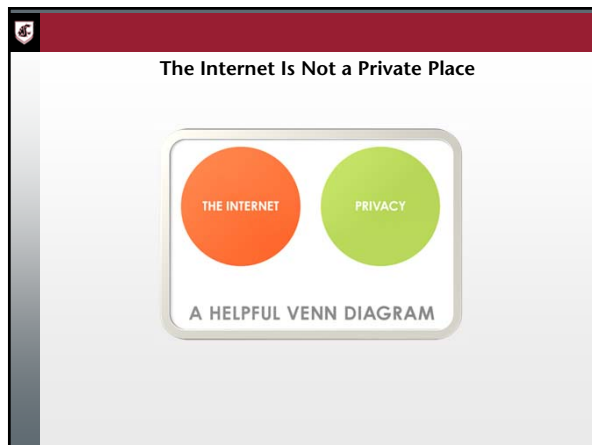
Reducing Anxiety: Keeping Yourself Safe

Treat Personal Information Like Cash

The diagram shows three grey rounded rectangles arranged horizontally. The left rectangle is labeled 'Social Security Number', the middle is 'Credit Card Number', and the right is 'Bank & Utility Account Numbers'.

Every time you are asked for this type of information ask:
Can I Trust The Request?






Reducing Anxiety: Keeping Yourself Safe

Email
Practice Email Etiquette

Spam Reduction:

Use A Filter	• Email Security Settings
Limit Exposure	• Use multiple addresses • Try not to display in public
Check Privacy Policies	• Check to see if they sell your email address
Use Caution	• When installing software look for pre-checked boxes that automatically sign up for email updates from partners



Reducing Anxiety: Keeping Yourself Safe

Phishing:


Legit companies do not ask for personal info via email or text

Messages may appear to be from organizations you do business with


May include threatening statements to close account if you fail to respond


Do not click on links or phone numbers provided in message – May redirect to spoof sites


If concerned look up organization independently and contact them directly





Locks Mean Protection

Screen Locks


HTTPS


Remote Access


Encryption





Mobile Computing - Basics


CAUTION
THIS MACHINE
HAS NO BRAIN
USE YOUR OWN


HTTPS


Limit
Exposure

Screen
Locks -
Passwords

Updates

Use Caution

Screen
Locks -
Passwords

Updates

Mobile Computing

Think Before You App

- Review Data Privacy Policy
- What Data Can the App Access
- Download from Trusted Sources
- Threat of Exposure When "Jailbreaking" & "Rooting" Device

Data

- Backup Regularly
- Delete Data Before Recycling
- Be Aware of Excess Data use Charges

Wi-Fi - Bluetooth

- Get Wi-Fi Savvy
- Free Wi-Fi Internet Traffic Can Be Intercepted
- Turn Off Automatic Wi-Fi Discovery
- Turn Off Bluetooth When Not In Use

Reducing Risk: Keeping WSU Safe

THINK before you click.


- See previous slides
- Risk-Based Approach
- Nothing is black & white

What About the Cloud?

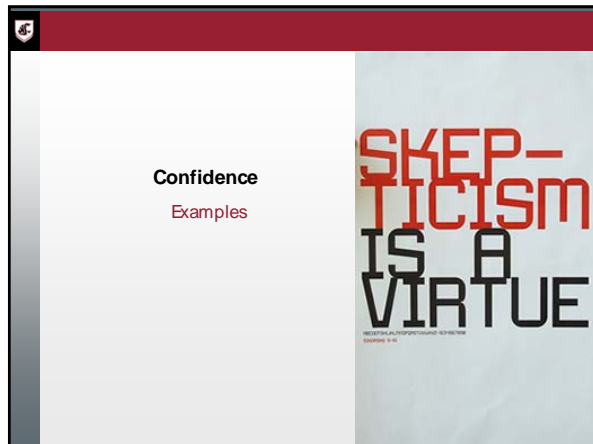
- Is my data more secure or less secure in the cloud?

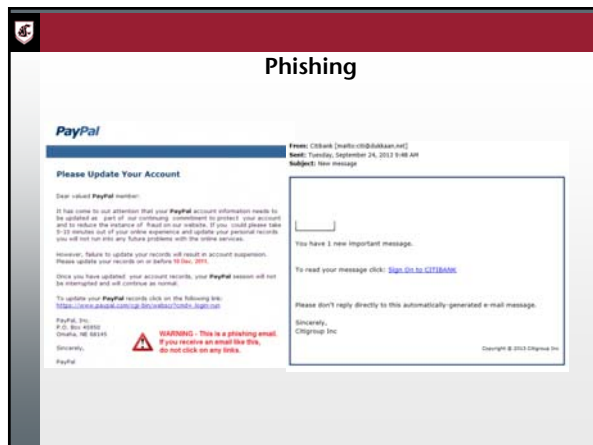
Additional Considerations

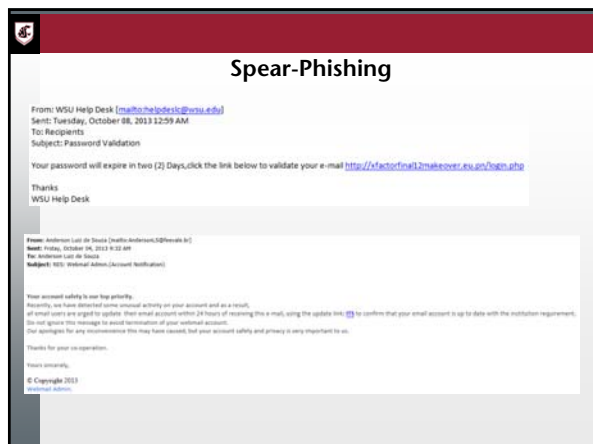
- Most Cloud Providers Use Non-Negotiable Terms of Service
 - What are terms of use?
 - Who owns the rights to user content?
 - Does the service sell or share user information with 3rd parties?




WSU Non-Public and WSU Confidential Data Is Not To Be Stored In An Unauthorized Cloud!!









Ransomware

Preventive Measures

- Perform regular backups of critical information. This data should be kept on a separate device, and backups stored offline.
- Maintain up-to-date anti-virus software.
- Keep your operating system and software up-to-date with the latest patches.
- Do not follow unsolicited web links in email.
- Use caution when opening email attachments.
- Follow safe practices when browsing the web



Policy


What is expected of me?

- WSU Policies
- State & Federal Requirements

WSU Policies

- A balancing act
- Requires universal Participation


As a user of Washington State University Information Technology Resources, it is your responsibility to help in the protection and proper use of our information and technology assets.



WSU Policies

- Public Data:**
 - Of interest to the general public and for which there is no University business need or legal reason to limit access
- Non-Public Data:**
 - Not appropriate or available for general public use
- Confidential Data:**
 - Restricted for legal or other University business reasons

- Electronic Communication Policy – EP4
- University Data Policies – EP8
- Wireless LAN Policy – EP13
- University Antivirus Policy – EP14
- University Network Policies – EP16
- Computer and Network User Identification and Password Policy – EP18
- University Domain Name Policy – EP21




WSU Policies

Electronic Communication Policy

WSU Executive Policy #4

- Recommended Reading
- Understand What You Can Do
- Know What Is Prohibited




WSU Policies

University Data Policies

WSU Executive Policy #8

Administration	Access	Usage	Maintenance	Security
Identifies Data Steward Outlines Data Steward Responsibilities	Defines Classification Definitions and Accessibility Public Non Public Confidential	Data must be used as intended Not for inappropriate purposes Must not be used to promote or condone unlawful activities Willful misuse can result in access termination and possible civil/criminal charges	Defines who is responsible for maintaining data integrity	Outlines data storage and transmission requirements for each data classification Defines preservation and backup requirements Data destruction requirements




WSU Policies

Wireless LAN Policy

WSU Executive Policy #13

- Central IT/IS responsible for deployment/management of access points
- Central IT/IS will specify equipment to prevent compatibility issues
- Authentication service for authorization required
- Access will be through VPN gateway




WSU Policies

University Anti-Virus Policy

WSU Executive Policy #14

- Anti-Virus software is required.
- Keep Anti-virus definitions up-to-date
 - System and application patches included
- Scan ALL incoming files
- Contact your Systems Administrator, or the IT Helpdesk (335-4357)




WSU Policies

University Network Policy

WSU Executive Policy #16

Additional Best Practices

- Disable unnecessary services/daemons such as mail relay (SMTP), SNMP, telnet, ftp, etc.
- Disable or otherwise protect vulnerable TCP/IP ports.
- Take appropriate steps to physically secure servers from theft or damage.
- Regularly review activity logs for evidence of break-ins and take the appropriate corrective actions.
- Maintain regular system backups to facilitate disaster recovery.
- Remove or disable unused accounts.
- Keep informed of current industry security standards and apply them as appropriate.




WSU Policies

Computer and Network User Identification and Password Policy

WSU Executive Policy #18

- User IDs shall be assigned to individual users
- Passwords are considered confidential and shall not be shared or transferred to others
- Passwords should not be written down where anyone else can find them




WSU Policies

University Domain Name Policy

WSU Executive Policy #21

- Defines .edu and .org DNS policy
- What Qualifies
- Who is Responsible
- How to Acquire



State & Federal Requirements

Common/Major

- FERPA – Family Educational Rights and Privacy Act (1974)
- DMCA – The Digital Millennium Copyright Act (1998)
- WA OCIO Policy 141 - Securing Information Technology Assets

Less Common


- GLBA – Gramm-Leach-Bliley Act (1999)
- HIPAA – Health Insurance Portability and Accountability Act (2000)
- SOx – Sarbanes-Oxley (2002)
- USA Patriot Act – (2001-present)
- Homeland Security – (2002)




Summary

- We have some pretty **diverse adversaries**
 - Some have rather **scary capabilities**
- **WE ARE A TARGET**
- Principles that help **keep you secure** = Principles that help **keep WSU secure**
- WSU computer and network security policies are available online
- **YOU** can make a **BIG** difference

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Questions?



Reducing Anxiety: Keeping Yourself Safe

P2P Software



No Centralized Server

All files originate from other users

Mirror Site Downloads

Can be impersonated

Unintentional File Sharing

Configuration problems

Some P2P Software May Be Bundled

Adware/Spyware

Viruses

Trojans

Copy That?

- A popular P2P software package was installing a Trojan for 3 weeks before it was discovered.
- "Over a 12-hour period, regular searches were performed on KaZaA for Microsoft Outlook Express e-mail files, assuming that users would not intend to share private e-mails. Of 443 searches, 61 percent returned one or more hits for the e-mail files. In addition, other tests showed up word processing documents, Web browser caches and cookies, and financial software files." - SANS

There are safer ways to share information.

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This has been a
WSU Training
Videoconference

If you attended this live training session
and wish to have your attendance
documented in your training history,
please notify Human Resource Services
within 24 hours of today's date:

hrstraining@wsu.edu
