


**Awareness, Confidence, and Policies**  
WSU Computer and Network Security Awareness Training



Revised January 2015

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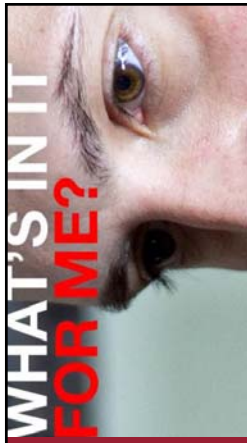
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- Information
- Reduced Risk  
(At work and at home)
- Reduced Anxiety
- Hopefully More Sleep

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**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?

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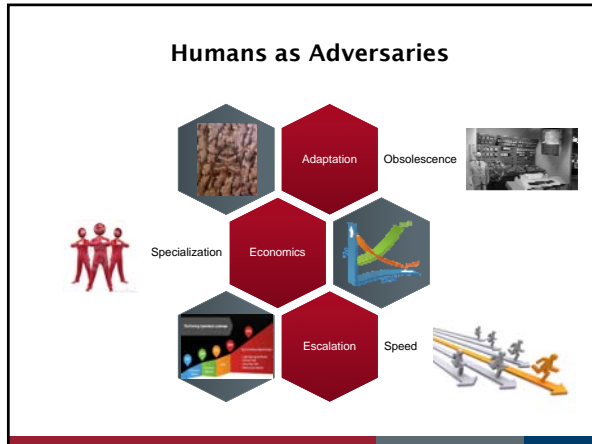
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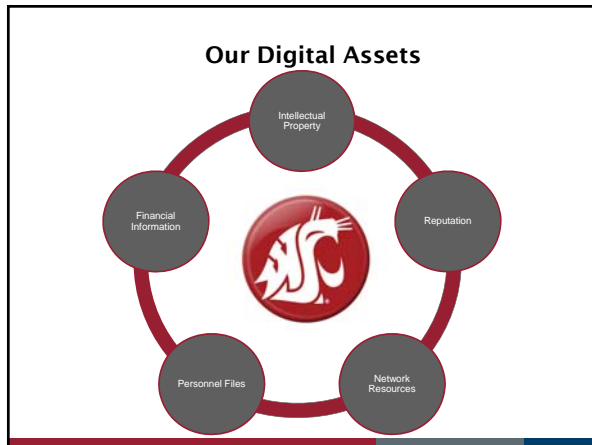
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### Awareness

Who are we up against and why?

- WSU's Digital Adversaries

Washington State University  
www.wsu.edu

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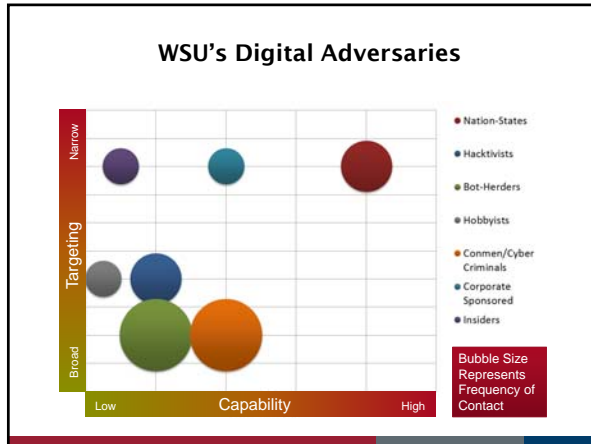
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### Confidence

How can I help myself and WSU?

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

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### 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.

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### Reducing Anxiety: Keeping Yourself Safe

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.

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### Reducing Anxiety: Keeping Yourself Safe

**Be Unpredictable**  
 Example Password: 1Dnlg34h1Dnlt514!!

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

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### Reducing Anxiety: Keeping Yourself Safe

#### Treat Personal Information Like Cash

Social Security Number	Credit Card Number	Bank & Utility Account Numbers
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Every time you are asked for this type of information ask:  
**Can I Trust The Request?**

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### Reducing Anxiety: Keeping Yourself Safe

Once posted, Always posted

Your online reputation can be a good thing

Keep personal info personal

Privacy and security settings exist for a reason

Know and manage your friends

Be honest if you're uncomfortable

Social Media

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### The Internet Is Not a Private Place

THE INTERNET

PRIVACY

A HELPFUL VENN DIAGRAM

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### 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

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### 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

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### Locks Mean Protection

-  Screen Locks
-  HTTPS
-  Remote Access
-  Encryption

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### Mobile Computing - Basics



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### 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

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### Reducing Risk: Keeping WSU Safe

**THINK  
before  
you click.**

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

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### 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 3<sup>rd</sup> parties?



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

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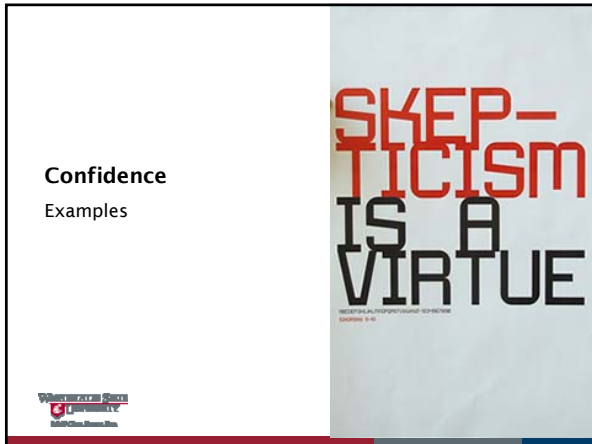
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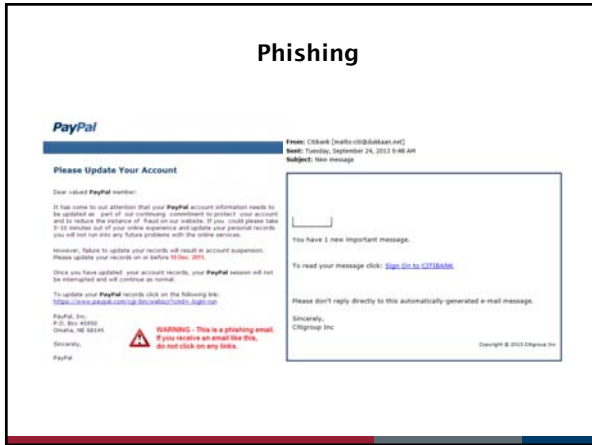
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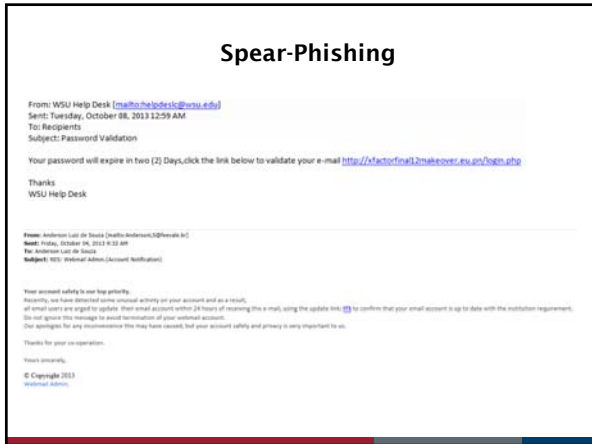
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## Ransomware



### 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

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## Policy

What is expected of me?

- WSU Policies
- State & Federal Requirements



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## 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.

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### 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

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### WSU Policies

Electronic Communication Policy  
WSU Executive Policy #4

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

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### 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

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**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

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**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)

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**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.

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**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

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**WSU Policies**

**University Domain Name Policy**  
 WSU Executive Policy #21

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

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**State & Federal Requirements**

<u>Common/Major</u>	<u>Less Common</u>
<ul style="list-style-type: none"> <li>• FERPA – Family Educational Rights and Privacy Act (1974)</li> <li>• DMCA – The Digital Millennium Copyright Act (1998)</li> <li>• WA OCIO Policy 141 - Securing Information Technology Assets</li> </ul>	<ul style="list-style-type: none"> <li>• GLBA – Gramm-Leach-Bliley Act (1999)</li> <li>• HIPAA – Health Insurance Portability and Accountability Act (2000)</li> <li>• SOx – Sarbanes-Oxley (2002)</li> <li>• USA Patriot Act – (2001-present)</li> <li>• Homeland Security – (2002)</li> </ul>

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### 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?




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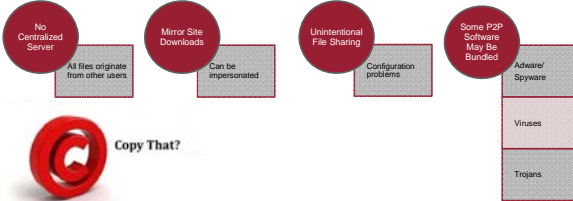
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### Reducing Anxiety: Keeping Yourself Safe

#### P2P Software



**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 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](mailto:hrstraining@wsu.edu)**



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