UC Systemwide Information Security Awareness Workgroup

UC Davis Information Security Symposium, June 2017

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Tolgay Kizilelma, UC Agriculture and Natural Resources (ANR)
Esther Silver, UCSF
Agenda

- Why is awareness important? Why bother with it at all?
- Workgroup background, purpose, current membership, and initial priorities
- What we’ve tackled so far and what we still want to accomplish
- The value of the Workgroup – why we’re each doing this
- The Workgroup as a resource for the UC community
IT Is All About Use of Data, Value Creation, and Risks
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Cybersecurity Risk Implications

- Reputational
- Strategic
- Financial
- Operational
- Regulatory
- Others
Technology: The Traditional Solutions/Responses

Anti-Virus

- Kaspersky
- AVG
- F-Secure
- Bitdefender
- AVIRA
- ESet
- NOD32

Firewall

- WatchGuard
- SonicWall
- Cisco
- Stonesoft
- Palo Alto Networks
- Juniper Networks
- Check Point
- Fortinet
Nowadays It Is More Complicated...
## Compliance and Regulations

<table>
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<tr>
<th>Act</th>
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<td>California’s Invasion of Privacy Act CIPA</td>
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<td>California Public Records Act</td>
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<td>Family Educational Rights and Privacy Act</td>
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<td>Privacy Act</td>
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<td>Foreign Corrupt Practice Act</td>
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<td>The Information Practices Act</td>
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<td>Protection of Pupil Rights Amendment - PPRA</td>
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<td>Right to Financial Privacy Act - RFPA</td>
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<td>Electronic Communications Privacy Act - ECPA</td>
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<td>Computer Security Act</td>
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<td>EU Data Protection</td>
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<td>Health Insurance Portability and Accountability Act - HIPAA</td>
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<td>Personal Health Information Act - PHIA</td>
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<td>Children’s Online Privacy Protection Act - COPPA</td>
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<td>Gramm-Leach-Bliley Act - GLBA</td>
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<td>Online Privacy Protection Act</td>
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<td>California Financial Information Privacy Act - CFIPA</td>
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<td>Anti-Phishing Act</td>
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<td>General Data Protection Regulation - GDPR</td>
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<td>Student Online Personal Information Protection Act - SOPIPA</td>
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<td>Confidentiality of Medical Information Act - CMIA</td>
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<td>California Data Disposal Act</td>
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<td>Federal Information Security Management Act - FISMA</td>
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<td>Payment Card Industry Data Security Standard - PCI-DSS</td>
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<td>Federal Telephone Records and Privacy Protection Act</td>
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Trends

No locale, industry or organization is bulletproof when it comes to the compromise of data.

IBM and Ponemon, 2016 Cost of Data Breach Study
People Are An Easy Target

- Awareness is required
  - NIST CSF
  - ISO/IEC 27001 & 27002
  - COBIT
  - PCI DSS
  - FISMA
  - HIPAA
- Weakest link in the chain
- Awareness is about empowerment
- People generally want to do the right thing
- K.I.S.S. – Keep Information Security Simple
  - Avoid “security fatigue”
Workgroup Background and Purpose

- **Origin:** Extension of the 2016 systemwide workgroup for National Cyber Security Awareness Month

- **Purpose:**
  - Continue to share ideas, materials and other resources for promoting cybersecurity awareness;
  - Support the UC goal of creating a culture of cybersecurity awareness;
  - Build good cybersecurity habits;
  - So that the UC Community can focus on its primary mission of teaching, learning, research, healthcare, and public service.
# Workgroup Members

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<th>UC ANR</th>
<th>UCD</th>
<th>UCD Health</th>
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<td>UCI Health</td>
<td>UCLA</td>
<td>UCOP</td>
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<td>UCSB</td>
<td>UCSC</td>
<td>UCSD</td>
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<td>UCSD Health</td>
<td>UCSF</td>
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Initial Priorities

1. Identify a handful of simple, achievable habits that can make an actual difference

2. Strategies for getting cybersecurity messages out to our constituencies

3. Leverage our collective buying power for giveaways

4. Roundtable sharing on specific topics
NCSAM: What We Did

UCD, UCLA, UCSF, UCSB, UCOP

Workgroup

BE WEB WISE

Video clips

CHAMPION

National Cyber Security Awareness Month

UC IT Blog

Articles & Spotlights

Posters

Webinars

Tips & Factsheets

Systemwide webpage
What We’re Doing Now

- **Cybersecurity Habits**
- Awareness program info and strategies
- Phishing campaign material
- Advanced IT security training vendors
- Password managers
- Cybersecurity organizations
- Posters, articles, presentations
- Systemwide website
How Do We Succeed With Such A Program?

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<th>Relevancy</th>
<th>Focus</th>
<th>Flexibility</th>
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<td>Timing</td>
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<td>Simplicity</td>
<td>Motivation</td>
<td>Learning styles</td>
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<td>Effective Delivery</td>
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Think before you click.

**AVOID PHISHING SCAMS**
- Beware of suspicious links or files in emails, texts or websites.
- Never give logins, bank numbers or credit card info over email.
- Never share passwords.
- Be suspicious of bad grammar and spelling.
- Trust no one.

cybersecurity.ucop.edu/phishing
The Value of This Workgroup – Why We’re Each Doing This

**Tolgay - UC ANR**

- We cover the whole state and can work with each campus
  - 10 Campuses
  - 5 medical Centers
  - 3 National Laboratories
  - 1 Agriculture and National Resources

- Collaboration
- Efficient and effective use of resources
- To promote the field of IT Security Awareness
The Value of This Workgroup – Why We’re Each Doing This

Julie – UC Cyber-Risk Coordination Center

- Shared resources that all UC locations can use
- We’re stronger together than separate
- Providing and receiving feedback
What do we still want to accomplish?

Lots!!

- Continue working on the goals the workgroup identified
- Identify metrics to measure program effectiveness
- Expand workgroup representation
- Reach a wider audience within UC
The workgroup as a UC resource

Systemwide Website:
https://security.ucop.edu/resources/security-awareness/index.html

Location contacts:

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<th>Location</th>
<th>Contact(s)</th>
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<tr>
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<td>UCLA</td>
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<td>security-best-practices</td>
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Questions? Comments?