Cybersecurity Awareness

Instructor: Ryan Moore
# About the Instructor

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<tr>
<th>![Icon]</th>
<th>15+ Years in IT Industry</th>
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<tr>
<td>![Icon]</td>
<td>6 Years as Faculty in the School of Information Technology</td>
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<td>![Icon]</td>
<td>Lead Educator for the Ohio Cyber Range Institute</td>
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<td>Music Enthusiast</td>
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<td>Trivia Host</td>
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<td>Courses in Systems Administration and Cybersecurity</td>
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<td>Develop Cybersecurity learning and training materials</td>
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<td>Run programs to educate Ohio citizens in cybersecurity</td>
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Ohio Cyber Range Institute

- OCRI is a UC Center Serving the State
- Collaboration with other educational institutes and centers
- Tenured Faculty & Adjunct Professionals Currently Working the Field
- Bootcamps & Industry Certifications
- Training Opportunities
About this Course

• Designed for everyday cyber citizens
  • No technical knowledge needed
• Weekly Online Meetings
  • Tuesday’s from 2:15-3:30
  • 30-45 presentation/demonstrations
  • Group discussions
• Resource Guides
  • Provide additional information
  • Guides to help you stay secure
• Weekly Survey’s
Goals and Topics

Help you understand and identify threats
Teach simple steps to protect yourself and others
Help spread and improve cybersecurity awareness

Topics (Tentative):

- Protecting your online presence
- Social Engineering and Phishing
- Securing your home and devices
- Social Media and Privacy
- Safe “Surfing”
- How to respond to a personal cybersecurity incident
- Current Cybersecurity News
Security Mindset

• Protecting our lives and our property
  • Locking doors
  • Checking who is at the door
  • Alarm systems
  • Washing your hands
  • Leaving a light on
  • Firesafe for valuables
Cybersecurity Mindset

- Being safe online isn’t so different from being safe in the physical world!
  - Become aware of the threats
  - Initiate behaviors to minimize threats
  - Take steps to prevent attacks
  - Protect yourself and others
It doesn’t affect me...

...I barely use the Internet
...I don’t shop/bank online
...I don’t have anything to steal
...That’s what the IT person is for
Cybersecurity Affects Everyone

• We are more connected than we realize
• Your information is valuable
• 95% of all Cyber Security Breaches are caused by human mistakes and misunderstanding
• It doesn’t just affect you
Don’t Be Afraid
Commonly Used Terms

• **Bad Actor/Threat Actor/Hacker**
  - Person or Entity that exploits a threat to perform and attack, with malicious intentions

• **Cyber Threat**
  - The potential for an attack to occur

• **Vulnerability**
  - A “weakness” in a system that could be threat

• **Cyber Attack**
  - Occurs when a threat has been exploited

• **Cybercrime**
  - Any crime which is committed electronically
Discussion

What are some motivations for Bad Actors?
Who are the Bad Actors?
Cyber attack motives

Organized crime
- Money!

Angry persons
- Customer dissatisfaction
- Unsatisfied former employee
- Revenge

Hacktivists
- Destruction
- Racism
- Disruption
- Political influence

Script kiddies
- Testing skills
- Excitement & Fun
- Training & experimenting
- "Show-off"

Competitors
- Competitive advantage

Nation State
- Destruction
- Spread disinformation
- Political influence
- Espionage

Discussion

What are some common cybersecurity threats?
(Potential for an attack)
Common Threats

• People
  • Mistakes
  • Lack of knowledge/training
• Out of date software/hardware
• Lack of basic security
• Misconfiguration
Discussion

What are some common cyber attacks?
Common Cybersecurity Attacks

- Malware
- Ransomware
- Bots
- Social Engineering
- Phishing
- Man-in-the-Middle
- Shoulder Surfing