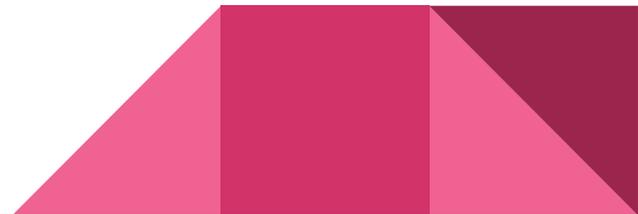


Cyber@UC Meeting 46

Finishing up Direct Recon

If You're New!

- Join our Slack ucyber.slack.com
- **SIGN IN!**
- Feel free to get involved with one of our committees: **Content, Finance, Public Affairs, Outreach, Recruitment**
- **Ongoing Projects:**
 - Malware Sandboxing Lab
 - Cyber Range
 - RAPIDS Cyber Op Center

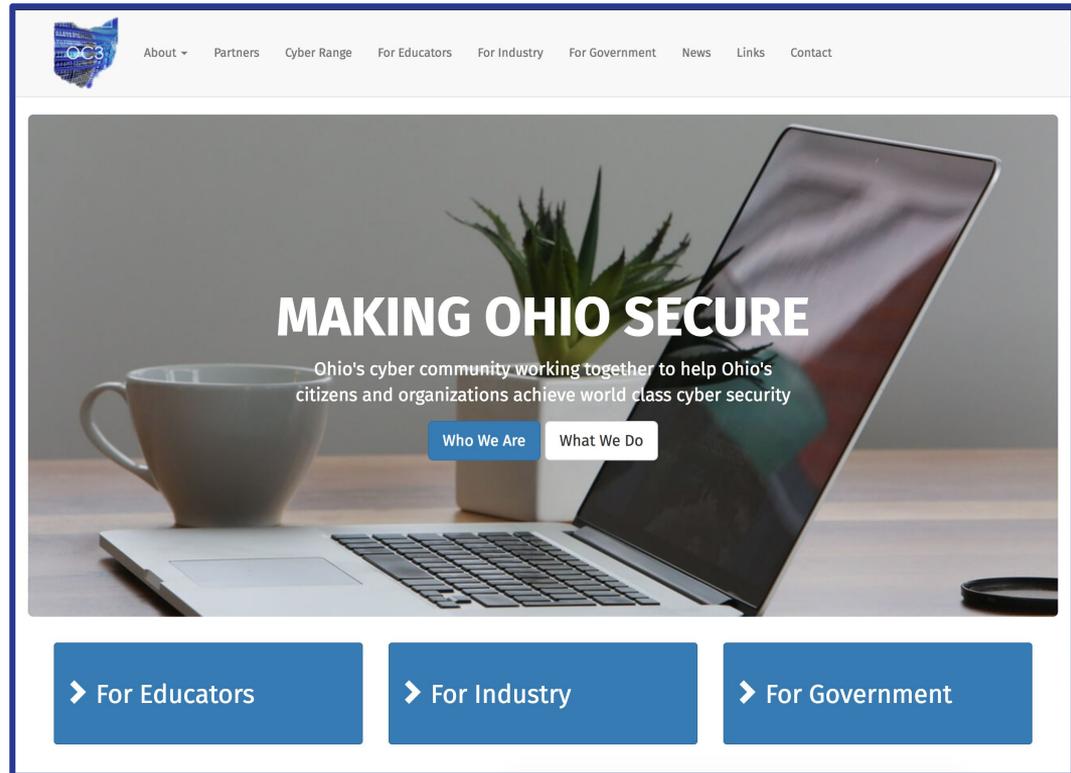


Announcements

- **UC is slacking on equipment ordering**
 - I hope everyone had a **great Spring Break**
 - **Lakota East Outreach** to happen again soon
 - Cincinnati B-Sides on **May 12th**, registration not open yet
- 

OC3 website

- WordPress → Drupal
- Vicki presented it in Columbus on Tuesday





Public Affairs

- Please fill out Google form for **GroupMe** Numbers!
<https://goo.gl/forms/94i9kMJgtpDGXsC22>
- Our brand new **YouTube** channel has just been made. We will be live streaming meetings, events, etc and posting relevant videos to the channel. Please subscribe!
youtube.com/channel/UCWcJuk7A_1nDj4m-cHWvIFw

Follow us on our social media:

Facebook: <facebook.com/CyberAtUC/>

Twitter: <twitter.com/UCyb3r>

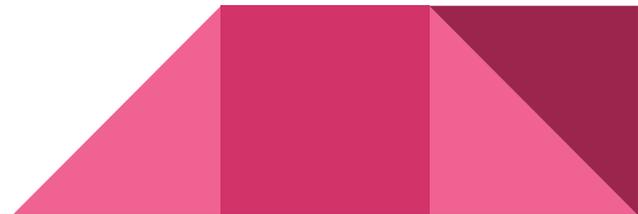
Instagram: <instagram.com/cyberatuc/>

Website: <ucyber.github.io>

Weekly Content

MOSQUITO Attack: data flow over air-gap

- Using ultrasonic waves, two or more computers can covertly share data
- Air-gapped computers are commonly used to maintain security for a company's network
- This attack works by reversing connected speakers, headphones, and earphones to work like microphones
- Requires both computers to be infected in some way by an attacker
 - Perhaps through removable media
- Maximum distance listed is 9 meters, about 30 feet



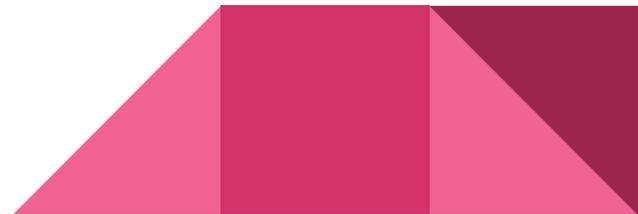
MOSQUITO sources

<https://thehackernews.com/2018/03/air-gap-computer-hacking.html>

<https://thehackernews.com/2018/02/airgap-computer-hacking.html>

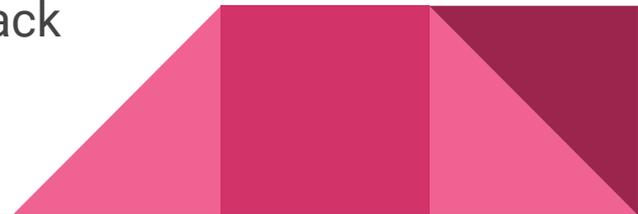
<https://arxiv.org/pdf/1803.03422.pdf>

The end of the first article contains links to a bunch of other hardware covert data transfer exploits these guys have found in the past



Trojanized BitTorrent Software mines crypto

- A popular BitTorrent client called MediaGet was compromised a little over a week ago
- A malware called “Dofail”, or “Smoke Loader”, was being placed on windows machines and mining Electroneum using the victim’s CPU
- Dofail managed to infect computers in Russia, Turkey, and Ukraine on March 6th
- Microsoft’s Windows Defender research department found and blocked the attack before it could cause serious damage
- MediaGet appears to be a victim of supply chain attack
 - Similar to CCleaner hack from last September



MediaGet (continued)

- Almost 400,000 devices were infected
 - Windows Defender was able to detect and block the malware
 - Microsoft states that AI-based machine learning techniques and behavior monitoring used by Windows Defender played a key role
 - A legitimate, signed version of mediaget.exe downloads update.exe
 - The poisoned update.exe downloads and installs an infected mediaget.exe that is unsigned
 - The poisoned update.exe is signed by a third party and signed with a different cert to get through the signing requirements of mediaget.exe
- 

MediaGet (sources)

<https://thehackernews.com/2018/03/windows-malware-hacking.html>

<https://cloudblogs.microsoft.com/microsoftsecure/2018/03/13/poisoned-peer-to-peer-app-kicked-off-dofail-coin-miner-outbreak/>

