

# Cyber Security News

Vol. 2 No. 6 – January 30, 2019  
<https://blogs.cae.tntech.edu/cybereagles>



## Upcoming Meetings

ALL Meetings this Semester will be in  
Prescott 215

2/7 Spring Meeting Kickoff - DCIG

2/21 CCIG

3/21 OCIG

4/4 CCDC Debrief

4/18 Speaker - Last Meeting of the  
Semester

## CyberEagles-W

CyberEagles-W is Tennessee Tech's student chapter of Women in Cybersecurity (WiCyS). We strive to address the problem of advancing and retaining women in Computer Science and Cybersecurity by providing access to professional development opportunities and by hosting computer workshop events. All majors are welcome! Please, join us for our meetings this semester:

2/14 5-7 PM

3/14 5-7 PM

4/16 5-7 PM

4/25 Time TBD - Movie Night End of  
Semester at Cookeville's Movie Theater

*\*\*Women who attend each of the first three meetings will be invited to our fourth meeting and awarded our 'Grand Prize' of the semester!*



---

## CTF

Meetings will be held in Prescott 411

Capture the Flag events are cyber-security and computer related competitions that are regularly hosted in both academic and professional contexts. There are many different types of events that fall under the category of CTFs, but all of them are a good opportunity to improve your skills and show off to employers, who not only look for activities like these in a resume, but also scout some of the more prominent competitions! If you are interested in

improving and testing your skills as a computer expert, fill out the information below and come to our meetings!

[https://docs.google.com/forms/d/e/1FAIpQLSdIKItUd\\_tPaLRLOGdawh-QF5MJUKoRFCLR1u89hdOOeB2WA/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdIKItUd_tPaLRLOGdawh-QF5MJUKoRFCLR1u89hdOOeB2WA/viewform)

---

## Cyber Eagles Defense Interest Group

Meetings will be held in Prescott 215

Our group collectively assists students with building their knowledge of commercial networks and how to defend such networks from cyber-attacks. Students learn the fundamentals of assembling a network's architecture, securing Windows & Linux services and mitigating illicit activity over the domain. To help test our skills and further our knowledge, our team collaborates directly with the Cyber Eagles Offense Interest Group with head to head war games each month and compete in competitions such as Collegiate Cyber Defense Competitions (CCDC) and Oak Ridge Labs Cyber Defense Competition (ORNL-CDC). We welcome any student interested in learning defensive security to join our meetings and apply for our competitions.

<https://goo.gl/forms/m5oR1cTy9KwKl0M72>

**Defense Resource Sites:**

<https://www.cybrary.it/course/comptia-security-plus/>

---

## CyberEagles - Offense Interest Group

Meetings will be held in Prescott 215

The Offense Cyber Interest Group (OCIG) is taking applications for Mentors in Training: students that are passionate about building their Penetration Testing / Ethical Hacking skillset and willing to give back by creating Workshop modules to be used by others. If you would like to join our ranks on the OCIG leadership team, hone your skills through collaborative, independent learning, and contribute to the future of OCIG, fill out our survey: [http://bit.ly/OCIG\\_Apply](http://bit.ly/OCIG_Apply) and contact us on Discord: [http://bit.ly/OCIG\\_Discord](http://bit.ly/OCIG_Discord).

CyberEagles Offense Mentors

---

## ACM Meetings

For those who are interested in ACM. Their meetings this semester will be in Bruner 207 during dead hour on - 1/31, 2/14, 2/28, 3/14, 3/28, & 4/11. Please feel free to stop in and join us.

---

## Cyber Security related jobs that you might be unaware that you qualify for

There are nearly 300,000 Cyber Security related jobs that are available right now and this will significantly increase over the next five years, most people are not aware of or do not know that they qualify for them. Check out this article for more information. <http://thehill.com/opinion/cybersecurity/365802-cyber-jobs-are-available-but-americans-dont-realize-they->

are-qualified

---

## CyberEagles T-Shirt

If you would like to buy one of our Cyber Eagles t-shirts for family or friends, they are \$10 each, just see one of the officers or stop by CEROC in Prescott 413 and talk to Lana.

---

## The Gamedev club is holding a game-a-Thon as part of the CSC Hack

Competition will be held April 5-7. Competitors can compete as teams to create a game during the weekend starting on the 5th and ending at noon on the 7th where the entries shall be judged. The entries must all follow the theme of the Game-a-Thon which will be revealed at the start of the event or prior. The link to sign up is below:

<http://bit.ly/CSCGame2019>

---

## NCL – National Cyber League – Ethical Hacking and Cyber Security

NCL is a first-of-its-kind ongoing educational experiment in learning and gaming, where the students (AKA players) are co-creators and collaborators.

<https://www.nationalcyberleague.org/fall-season>

---

## Cyber Security Resources

For those who would like to start each week with cryptography challenges, cyber security learning check out the following links

<https://ciphermonkey.rocks/>

<https://stacksocial.com/sales/the-complete-2018-comptia-certification-training-bundle-lifetime-access>

Good read regarding block chains:  
<https://medium.freecodecamp.org/the-authoritative-guide-to-blockchain-development-855ab65b58bc>

---

## Master The Mainframe

What is the Master the Mainframe Contest?

This unique, virtual contest is open globally to high school and college students to progressively teach mainframe skills in a real world enterprise computing environment. Employers from around the globe use this contest to seek out potential candidates for mainframe careers.



Why?

Industry relies on the mainframe for their speed, reliability, scalability, and unmatched security. Mainframes are critical to the success of a wide range of industries

for high-speed cloud computing, real-time analytics, and more. By participating in Master the Mainframe, you will be taking a giant step toward developing critical skills that are in hot demand by the world's largest and most respected companies.

Why compete?

Obtain unprecedented exposure to a wide variety of enterprise systems, software and products. Earn an Enterprise Computing Open Badge to put on your resume or social media pages so potential employers can easily find you. Yes, that's right—this is one competition that can even land you a job!!!!!!

Who can compete?

Anyone who is currently a student at the high school or university level can compete – no experience is necessary. The contest teaches the skills you'll need and the competition difficulty increases as you progress through the contest phases.

Ready to participate?

All you need to do is go to <https://angelhack.typeform.com/to/tDO9n5> to sign up and you'll be on the first part of your journey towards Mastering the Mainframe.

---

## **Toastmasters—Great way to improve your skills for speaking in front of groups**

If you are looking to improve your skills for

presentations. They can help you improve on your mannerisms, and help you notice your umms and uhhs to try and reduce them. ToastMasters Club in Cookeville, meets every 2nd and 4th Tuesday at 6:30 pm at Super Hibachi Grill Buffet.

<https://www.toastmasters.org/Find-a-Club/00002744-cookeville-club>

---

## **CyberEagles to begin affiliation with NCSA – National Members Sought**

CyberEagles is moving forward with the affiliation process with the National Cybersecurity Student Association. Students interested in membership in the national associate can join at

<https://www.cyberstudents.org>. The annual fee is \$25. For more information about the benefits of membership, go to <https://www.cyberstudents.org/about> or contact Joshua Wilson at [jrwilson43@students.tntech.edu](mailto:jrwilson43@students.tntech.edu)

---

## **Gaming Design Club**

Dead Hour Meetings (11am - noon) in Bruner 406, meetings on 1/29, 2/5, 2/19, 3/12, 3/19, 4/2 & 4/16. Night Meetings (6-8pm) in Bruner 406, meetings on 2/6, 3/13, & 4/3

If you have anything you would like to present or showcase, just let me or one of the other officers know through Discord or our emails (Derek: [darevis42@students.tntech.edu](mailto:darevis42@students.tntech.edu); Spencer: [swpack42@students.tntech.edu](mailto:swpack42@students.tntech.edu))

If you are still interested in joining the

challenge, the goal is to create the provided 3D shooter game, and then change everything to create a new game. This is a great opportunity to test your limits, learn, and even join forces with other developers.

Finally, please fill out our census. This is how we will be keeping up with membership.

Game Dev President  
Valerie Hubert

---

## Board Game Night

This semester Dr. Boshart and Dr. Brown are combining their game nights. This semester they will have game night on Fridays from 5 – 7 (may run later depending on the games being played). They play in Bruner 207.

---

## McAfee finds entirely new ransomware strain

Poses as a game and demands \$700 in cryptocurrency from the victim.

<https://www.itproportal.com/news/mcafee-finds-entirely-new-ransomware-strain/>

---

## Hackers still using cloud services to mask attack origin and build false trust

Google has a growing problem on their hands

<https://www.techrepublic.com/article/hackers-are-still-using-cloud-services-to-mask-attack-origin-and-build-false-trust/#ftag=RSS56d97e7>

---

## [attack-origin-and-build-false-build-false-trust/#ftag=RSS56d97e7](https://www.techrepublic.com/article/hackers-are-still-using-cloud-services-to-mask-attack-origin-and-build-false-trust/#ftag=RSS56d97e7)

---

## US issues emergency cyber security directive as Iran-linked hackers strike during shutdown

A cyber attack linked to the Iranian state has prompted an emergency directive during the shutdown to secure civilian agencies.

<https://news.sky.com/story/us-issues-emergency-cyber-security-directive-as-iran-linked-hacker-strike-during-shutdown-11616241>

---

## Malvertising campaign targets Apple users with malicious code hidden in images

New malvertising group named VeryMal hijacked over five million web sessions to redirect Apple users to sites offering malware-laced software.

<https://www.zdnet.com/article/malvertising-campaign-targets-apple-users-with-malicious-code-hidden-in-images/>

---

## How to integrate SSH key authentication into KeePassXC

Make using SSH key Authentication a snap with the new ssh-agent feature found in KeePassXC.

<https://www.techrepublic.com/article/how-to-integrate-ssh-key-authentication-into-keepassxc/#ftag=RSS56d97e7>

---

## **IoT application vulnerabilities leave devices open to attack**

Barracuda Networks calls for internet of things devices to be subject to regular security review after researchers detail the application vulnerabilities of an internet-connected security camera

<https://www.computerweekly.com/news/252456406/IoT-application-vulnerabilities-leave-devices-open-to-attack>

---

## **Feel overlooked and underappreciated? You must work in IT security.**

Three quarters of security professionals report negativity or indifference regarding the introduction of new security measures and policies, with employees believing it will hamper their work.

[https://betanews.com/2019/01/24/overlooked-underappreciated-it-security/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed+-+bn+-+BetaNews+Latest+News+Articles](https://betanews.com/2019/01/24/overlooked-underappreciated-it-security/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed+-+bn+-+BetaNews+Latest+News+Articles)

---

## **Microsoft will self-impose ethics to prevent abuse of its facial recognition tech**

Wants to have ethical principles in place to prevent its facial recognition tech from being abused.

[https://www.theinquirer.net/inquirer/news/3069833/microsoft-will-self-impose-](https://www.theinquirer.net/inquirer/news/3069833/microsoft-will-self-impose-ethics-to-prevent-abuse-of-its-facial-recognition-tech)

## **[ethics-to-prevent-abuse-of-its-facial-recognition-tech](#)**

---

## **JP Morgan Analysts: Bitcoin Price could sink even further, Crypto values unproven**

“Even in extreme scenarios such as a recession or financial crises, there are more liquid and less-complicated instruments for transacting, investing and hedging [than cryptocurrencies].”

<https://cointelegraph.com/news/jp-morgan-analysts-bitcoin-price-could-sink-even-further-crypto-values-unproven>

---

## **If you installed PEAR PHP in the last 6 months, you may be infected**

Pear.php.net shuts down after maintainers discover serious supply-chain attack.

<https://arstechnica.com/information-technology/2019/01/pear-php-site-breach-lets-hackers-slip-malware-into-official-download/>

---

## **New Anantova Ransomware Supports Modules for Extra Functionality**

New ransomware family popped on the radar of analysts, who see it as a serious threat created by skilled authors that can turn it into a multifunctional piece of malware.

<https://www.bleepingcomputer.com/news/security/new-anatova-ransomware->

[supports-modules-for-extra-functionality/](#)

---

## **DarkHydrus RogueRobin uses Google Drive as C2 channel**

A custom malware dubbed RogueRobin is using Google Drive as an alternative command and control channel.

<https://www.scmagazine.com/home/security-news/a-custom-malware-dubbed-roguerobin-is-using-google-drive-as-an-alternative-command-and-control-channel/>

---

## **69% of employees share passwords with colleagues**

51% reuse an average of five passwords across their business and personal accounts.

[https://betanews.com/2019/01/28/69-percent-share-work-passwords/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed+-+bn+-+BetaNews+Latest+News+Articles/](https://betanews.com/2019/01/28/69-percent-share-work-passwords/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed+-+bn+-+BetaNews+Latest+News+Articles/)

---

## **The National Cyber Security Center is investigating a worldwide DNS hijacking campaign**

The alert warns that while the majority of the targets have been in the Middle East, reports are stepping up in Europe and the United States.

<https://www.theinquirer.net/inquirer/news/3069997/the-national-cyber-security-centre-is-investigating-a-worldwide-dns->

[hijacking-campaign](#)

---

## **'Keyless' cars are almost all vulnerable to £10 hacking kits**

Out of 237 cars tested, a whopping 234 were vulnerable to these code replicators.

99% of 'Keyless'

While this article is about cars in Europe, I would not discount this as being a problem in the US.

<https://www.theinquirer.net/inquirer/news/3070013/keyless-cars-are-almost-all-vulnerable-to-gbp10-hacking-kits>

---

## **Japan's government will start hacking its citizens' IoT devices next month**

In the hopes of improving their security before the 2020 Olympic Games.

<https://www.techspot.com/news/78456-japan-government-start-hacking-citizens-iot-devices-next.html/>

---

## **How to detect hackers in your network and stop cyberattacks**

When network security vendors can't see what users are viewing or look inside networks and applications, they're flying blind, missing critical data needed to combat attacks.

Cybercriminals are more prolific than ever. Everyone is familiar with brand-name

breaches, like those affecting Marriott, Equifax and Facebook.

<https://www.itproportal.com/features/how-to-detect-hackers-in-your-network-and-stop-cyberattacks//>

---

## **Two-Factor Authentication Might Not Keep You Safe**

The online security “best practice” is still vulnerable to phishing attacks.

<https://www.nytimes.com/2019/01/27/opinion/2fa-cyberattacks-security.html/>

---

## **Hackers Targeting Cisco RV320/RV325 Routers Using New Exploits**

Disclosure of proof-of-exploit code for security bugs in Cisco routers for small businesses prompted hackers to scan for vulnerable devices in an attempt to take control of them.

<https://www.bleepingcomputer.com/news/security/hackers-targeting-cisco-rv320-rv325-routers-using-new-exploits//>

---

## **All Photonic quantum repeaters could lead to a faster, more secure global quantum internet**

Engineering researchers have demonstrated proof-of-principle for a device that could serve as the backbone of a future quantum Internet.

<https://phys.org/news/2019-01-all->

[photonic-quantum-faster-global-internet.html/](https://phys.org/news/2019-01-all-photonic-quantum-faster-global-internet.html/)

---