CUCyber

Admin Meeting

Sept. 11 2020

What is CUCyber?

- Columbia's only Cybersecurity-oriented club
- An open and welcoming community to all genders, races, religions, … , everyone
- A space to promote education, learning, research and collaboration
- A small virtual family who you can turn to with any problems

whoami

George Litvinov

- Co-founder and Co-President
- Last member to join the original Columbia CTF Team "MuddGulch"
- SEAS '21 – Computer Science
- Known for my pink hoodie, putting up hood when focused, bags under my eyes and being half-dead all the time.

Position:

- Everything a little bit. Biggest contribution: Zoom Pro
- I'm your main POC with any questions and decisions.

your board

Dennis Roellke

- Co-founder and Co-President
- Member of "MuddGulch"
- Columbia PhD. Candidate
- Our contact to sponsors and the department
- Only person that deals with the money of the club
- Sugar Daddy

Chris Smith

- Founding member
- Member of "MuddGulch"
- Columbia GS (idk what year, idt he knows himself either)
- Jack of all traits, aka HACK GOD

Position:

- Outreach
- Satellite Hacking is cool and we want to do it
   (CSI u up?)

Nikhil Mehta

- Joined September 2019
- Silent but deadly
- Always flexes his AirPods (is probably wearing them now)

Position:

- Head editor of everything we publish on our blog.

Sean Ford

- Contact at CRF
- Will get us anything and everything
- Basically the black market of Columbia (Colombia?)
- Is an actual father

Position:

- Resource Manager (Servers, CS Accounts, Software, Hardware)

Amber Mildenhall

- new member
- how's your crypto?

Position:

- Event manager

Adam Storek

-   Our own KrebOnSecurity

Position:

-   Social Media
-   Newsletter Manager

Angela Zhang

- Newbie, but can still beat you up

Position:

- Blog editor
- Social Media

"the plan"

Rules

Rule 1: Don't be a dick

Rule 2: See Rule 1

CUCyber is open to everyone and anyone.

Club format

- 1 weekly meeting
  - Duration: 2 hours
  - Fridays, 5pm-7pm EST
- Additional meetings for competitions and guest speakers
- Promotion of independent research
  - Refund of project costs after submission of a write up/blog post.
- Competitions
  - We will attempt to participate in competitions
  - The biggest and most serious one is the DOE Cyberforce Competition
- (Optional) Skill labs
  - Weekly assigned TryHackMe/HackTheBox room, discussed at the end of every meeting.

Meeting format

- Guest Speaker (if available)
- 2-3 member presentations (15-20 mins each)
    - Any interesting topic in Cybersecurity
    - Independent Research Project
    - Writeup should be submitted to Nikhil ~1 week later
- Discussion of Security News (20 mins)
    - Submit an article and give a short 2 min summary of it
    - Can be the ones Angela and Adam post on Twitter
    - Adam will use the summaries to curate a short security newsletter.
- Discussion of past week's Skill Lab (Rest of time)
- Assignment of next week's Skill Lab

Independent Projects

- Can be anything security related
  - Before starting, please submit the Google form (estimated parts list included)
  - Cost should be around $75
  - If higher, wait for approval (George or Dennis)
- All costs will be refunded after the completion of a writeup
  - Exceptions will be considered where costs will be covered in advance
- A tentative presentation date should be proposed
- Forms and templates will be available beginning of next week on GitHub

Guest Speakers

- If you have any contacts in Security, please reach out to them for a potential guest appearance.
    - If they are interested, please connect them with Amber who can work out timing and set up an event. (cc George and Dennis)
    - For all sponsorship/money related things please connect the contact with Dennis.
- We need to generate a lot of hype when Guest Speakers come, aka share share share the event!

Competitions

- Everyone is welcome to participate in competitions
- Skill labs will serve as preparation for the competitions
- Unfortunately held online this semester, probably joint Discord or Zoom call.
- Department of Energy Cyberforce Competition
  - Application Deadline: October 2nd
  - Looking for teammates
  - Amount of commitment: HIGH (3-4 meetings per week)
- CUCTF 2020 (Clemson University)
  - Saturday, 03 October 2020 12:00pm-8:00pm EST
  - Everyone is welcome to participate
  - Details will follow on Slack and Facebook

Columbia CS Accounts

- Please sign up for a CS Account [here](#)
- Gives you cool stuff like access to servers and software like VMWare Fusion
- Optional, but cool

Socials

Listserv: cucyber@lists.cs.columbia.edu

Slack: [Click here](#)

Facebook:[CUCyber](#)

GitHub:[CUCTF](#)

Medium: [CUCyber](#)

cybergames

CTF

- CTF == Capture The Flag
- three types:
  - Jeopardy
    - Tasks are split into categories: PWN, Crypto, Reversing ...
    - Get points for completing a challenge
    - CUCTF
  - Attack-Defense (Blue Team-Red Team)
    - Blue Team is provided a network they need to protect
    - Red Team actively attacks Blue Team's network.
  - King Of The Hill
    - Competition split into challenges
    - After a person solves a challenge, he can sabotage other people
    - Person on current highest level is "King"

Wargames

- Always online and available challenge servers
- Different topics (Linux, XSS, PHP exploitation)
- Great resources:
    - OverTheWire
    - SmashTheStack
- If you're new – do OverTheWire's "bandit"

CTFTime.org

- Centralized CTF website

- List of competitions and leaderboards

- Join our Team

  - [CU CyberLions](#)

  - Code: CU CyberLions:1kLuUE:59Cla_7UHdcPUOHQe46MOA67c48

Kali Linux

What is it

- A Debian-based cybersecurity/pentesting oriented OS
- Basically an OS with a collection of tools pre-installed
- You will be using it during CTFs and for Skill Labs.

VM

- We will be installing it in a VM.
- If you have VMWare your life is a lot easier, so sign up for the CS Accounts
- If you don't have VMWare, use VirtualBox.

Next Week

Skill Labs:

- Create an Account on TryHackMe.com (free)
- Do the following Rooms by next meeting
    - Welcome
    - OpenVpn
    - MetaSploit

Anyone want to present their intern project next week?

- 15-20mins
- Short writeup to Nikhil

Next Week

Form about DOE Cyberforce will be sent out

 - Team registration due Oct. 2nd

CUCTF (Clemson) - Next Saturday, 12:00pm-8:00pm EST

 - Form will be sent out
 - Jeopardy-style team competition
 - Everyone is welcome and encouraged to participate