

Mason Competitive Cyber

Welcome to CC



About Our E-Board

- Zaine
 - President
- Caleb Yu
 - Vice President
- Andrew Oliveau
 - Competitions Officer
- Christopher Roberts
 - Secretary
- Roberto Basurto
 - Treasurer
- Michael Bailey
 - President Emeritus



Social Media



@masoncompcyber



Requirements to join MasonCC

- You are a current or past GMU student
- ANY MAJOR
- You are interested in learning about computer security
- Don't have a skill base in cyber security?
 - We have links to help you build one
go.gmu.edu/ccbeginners
 - Some of our talks are more basic than others



Key Links



Website

competitivecyber.club

Training Content

go.gmu.edu/cctraining

go.gmu.edu/ccbeginners

tctf.competitivecyber.club

Recordings

videos.competitivecyber.club

What's a CTF?

- The ones we do are largely jeopardy:

Jeopardy-style CTFs has a couple of questions (tasks) in range of categories. For example, Web, Forensic, Crypto, Binary or something else. Team[s] can gain points for every solved task. More points for more complicated tasks usually. Sometimes, the next task in line can be opened only after some team solve previous task. Then the game time is over sum of points shows you a CTF winner. Famous example of such CTF is [Defcon CTF quals](#).

- CTFtime, heavily edited



How does MasonCC do competitions?

- Online CTFs
 - Slack
 - channels for each comp
 - #ctf-watch
 - competitivecyber.club
 - Usually over a weekend. Fri-Sun
 - Spend 15min or spend hours
- In-Person Competitions
 - Carpool
 - Occasionally overnight at hotels
 - Slack when we're competing



Wins from 2018-2019



1st Place - VT Summit



1st Place - MetaCTF @ UVA



2nd Place - Cyberdawg @ UMBC



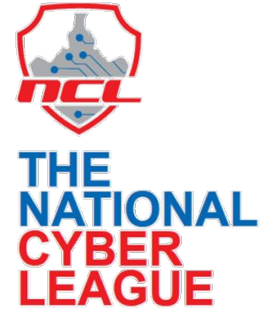
2nd Place - CyberFusion @ VMI

Last Fall



First and Second Place: MetaCTF

Call for Competitors



- National Cyber League Spring
 - Occurs throughout Spring semester
- CyberFusion State Cup (Team already full)
 - Feb 22-23
 - Take the crown back from UVA
- DawgCTF
 - Apr 11
- UMDCTF
 - Apr 18
- VT Summit
 - Late March (?)



“Important” Slack Channels

- announce
 - Everything you need to know about club meetings and major events
- ctf-watch
 - If you want to compete in a ctf, drop it here or look around for upcoming competitions
- enemyfinder
 - Our most active channel for your unpopular opinions
- scrubs
 - Ask n00b questions without judgment
- certs/jobs
 - Ask for all the advice you want



Hiring From



REDLattice



CACI

EVER VIGILANT

BATTELLE



FLASHPOINT

Booz | Allen | Hamilton

It can be done™

MITRE

galois



FIREEYE™

CLOUDFLARE

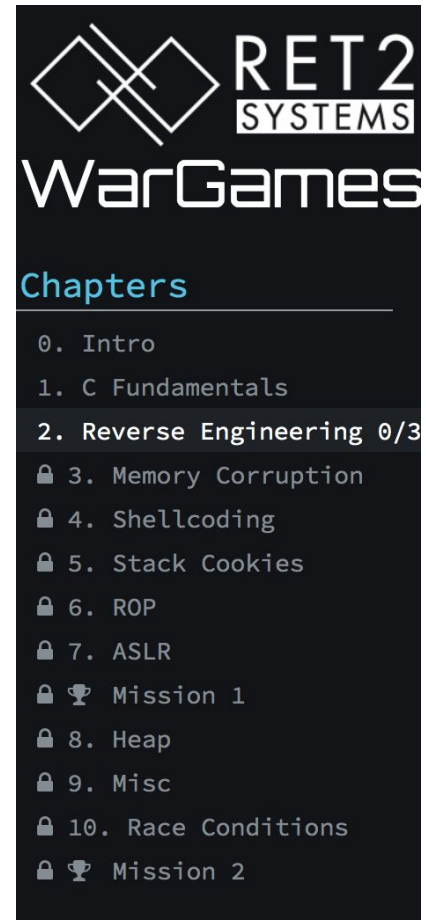


KYRUS

CRYPSIS™

New This Year

- New exec board
- PatriotCTF
 - Late March/Early April
- **wargames.ret2.systems**
 - Ret2 Systems WarGames is a great platform to learn reverse engineering, static and dynamic analysis, and other things
- Only one track
 - Let us know what you want to learn about or if you want to give a talk
- Talks alternate between Tuesdays/Wednesdays



Past Talks

Hackazon and more
Club Intro/Training CTF Challenges
Forensics, Complete with Weird CSAW Problems
Web Exploitation
backdoorCTF practice arena
Linux, Scripting, and Regex
Sam (of Kudu Dynamics) on CSAW CTF 2017 problems
Cryptography (not simple ciphers)
Python and Ruby CTF scripting, Regex
Amazon Web Services EC2
Rob Shein of PwC on Car Hacking
Hardware Hacking with Chuck
Web Exploitation 2
Basic Linux with Mike
Shellcode with Chris (caffix)
Forensics
Docker: Virtualization for Poor People
Networking
Format String with Chris (caffix)
GRIMM Challenge
HackTheBox.eu (GET AN INVITE)
Steganography
DEP and ASLR Bypass with Chris (caffix)
Intro. Reverse Engineering
GRIMM Meeting
1pwnch - Dirty Magic of Webshell
Android APK (App) Reversing with Tyler
Antivirus Evasion
Attack/Defense with Hands-On
Best Of Defcon Screening & Bring Food/Snacks
CC Intro + Scanning & Attacking Hosts (metasploit/nmap)

Profiling & Dissecting a Web App: Recon to Scanning
Corey Sheldon of Fedora, Ameridea on System Hardening
Cyber Fusion 2017 Simulation: Problem Sets and Walkthroughs from the Real Event
Host Based Forensics
Kirstie Failey (The Crypsis Group): The Incident Response Process
Love our Logs: Using Splunk to Identify Threats and Pattern
Paul - CTF Tools CC Uses
Physical Security, Lockpicking, & RFID
Power Grid Security with PwC
Profiling & Dissecting a Web App: Pwning and Footholds
William Burke IV DHS Red Teaming Talk
... And more



Sponsors

- CACI international
 - Newest sponsor as of Fall 2019
- GMU CYSE
 - Helps us out financially in exchange for winning competitions and making the school look great

Past Sponsors

- Battelle
- The Crypsis Group



Sponsors

- We have them
- Heavily vetted (people generally work there)
- Interest comes first, *then* we ask them for money
- Apply for them
 - They're here because they want members



Proud Sponsors



Thank you to these organizations who give us their support
They're hiring and have hired us before



CACI

EVER VIGILANT

CRYPSIS™ **BATTELLE**

It can be done™

COMMENCE HACKING



tctf.competitivecyber.club

Good categories for beginners:

- **Cryptography**
- **Recon**
- **Trivia**
- **Linux/Scripting**

Also shoutout to Arnav “Cool Kids” Dhiman for getting the high score on TCTF for Fall 2019!

Next Meeting: Hub Room 1 on February 4 (Tuesday) @5:30