

Welcome to the Bootcamps!

CCDC/CPTC/NCAE/Cyberforce Informational
Meeting



CCDC Sign-in

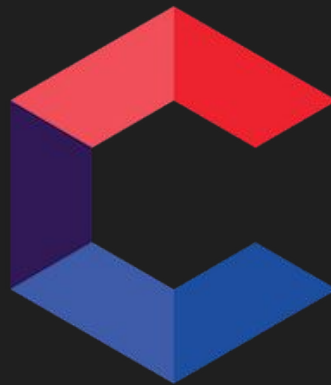
<https://da.gd/CCDC2023>

CPTC Sign-in

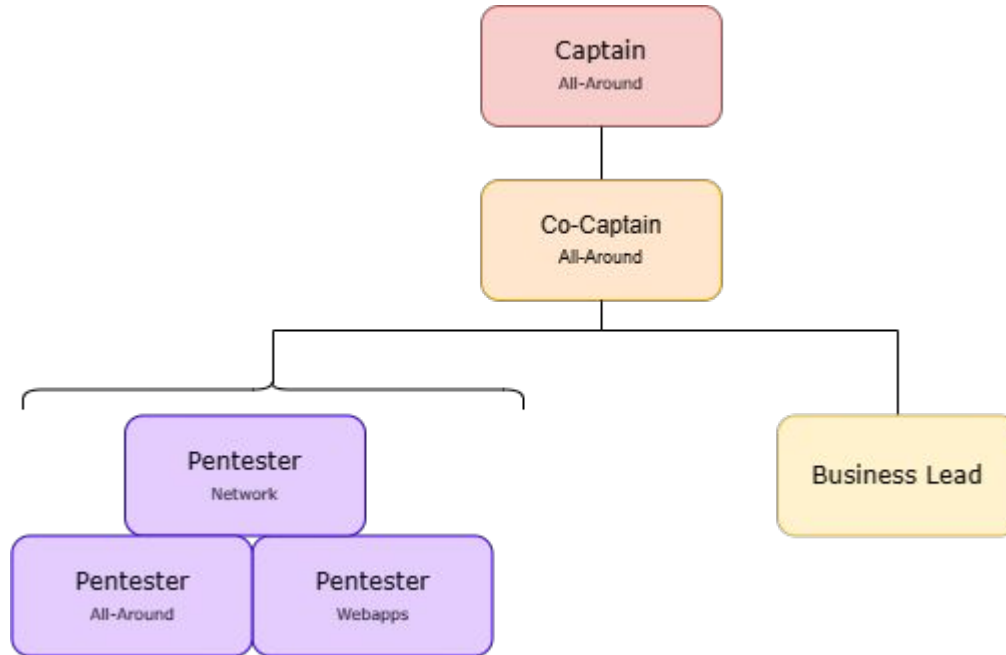
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What is *CPTC*?

- Collegiate Penetration Testing Competition
 - International competition
 - Reigning world champions x2
- Focuses on penetration testing, IT infrastructure, and scripting/reverse engineering
- **OFFENSE**
- Simulates pentest engagements
- Providing business value
- 6 main roster, 2 alternate



Team Structure



THINGS YOU'LL LEARN

Network Penetration Tooling & Methodology

Active Directory Abuses (ADCS, Kerberos, Credential Harvesting, Relaying)

Windows & Linux exploitation & post-exploitation

Impacket, Ghostpack, Command & Control

Web Application Methodology

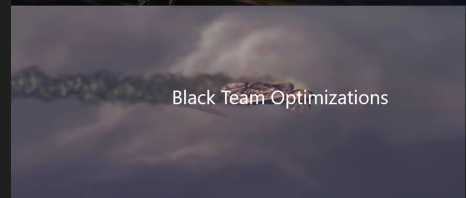
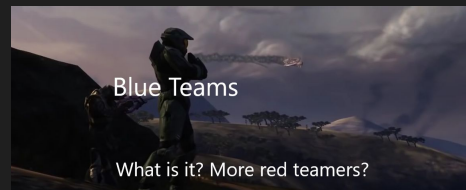
Fuzzing, Injections, OWASP stuff

Burpburpburpburpburpburpburpburpburpburpburpburpburpburpburp

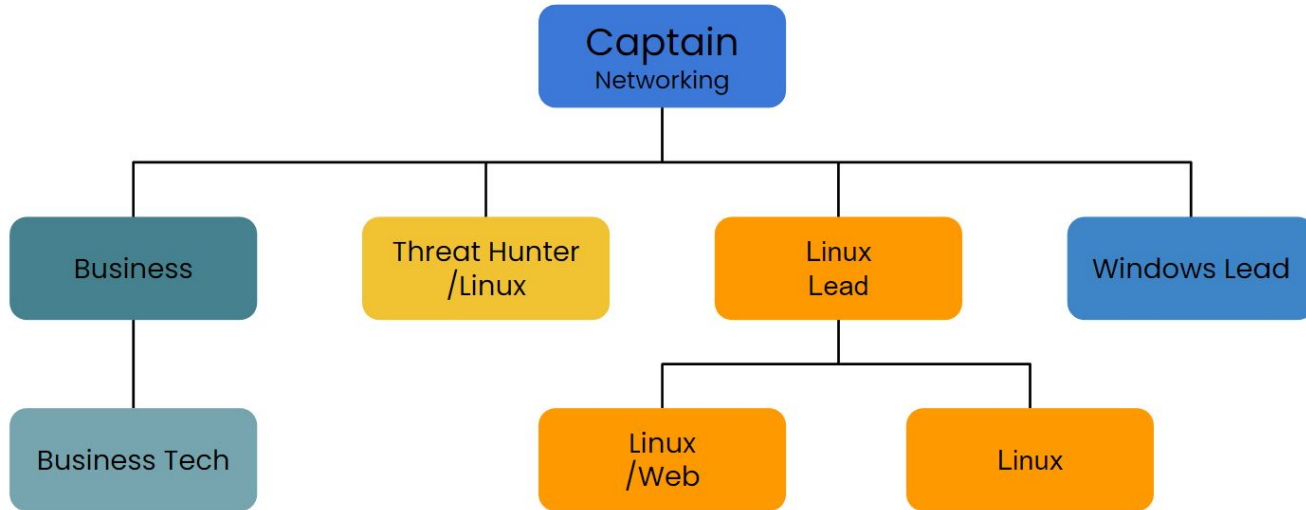
And some more... (report writing)

What is CCDC?

- Collegiate Cyber Defense Competition
 - National competition
 - Top 8 regionally
- Focuses on system administration, incident response, computer networking, and cloud engineering
- **DEFENSE**
- Simulates IT/incident response teams
- Build, secure, and defend various business infra
- 8 main roster, 4 alternate



Team Structure



THINGS YOU'LL LEARN

- Services
 - a. Active Directory
 - b. DNS
 - c. HTTP
 - d. SQL
 - e. Cloud
 - f. SSH
 - g. Email
 - h. SMB
 - i. And more...
- Tools
 - Group Policy
 - Nmap
 - Splunk
 - Sysinternals
 - VPN
 - Firewalls
 - Nessus
 - And more...
- Procedures
 - User management
 - Incident Response
 - Patching / Hardening
 - Creating and restoring backups
 - Inventory
 - And more...
- OS's
 - CentOS, Ubuntu, Alpine Linux, Debian, Slack
 - Windows Server, Windows Workstation

CCDC

Meet the Teams!

CPTC

CCDC



Marshall
Ung



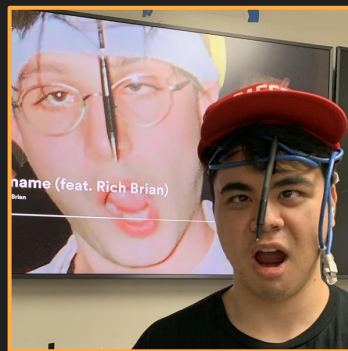
Sydney
Duong



Dylan
Tran



Tanay
Shah



Evan
Deters



Jessica
Leung



Jimmy
Peng

CPTC



Jimmy
Peng



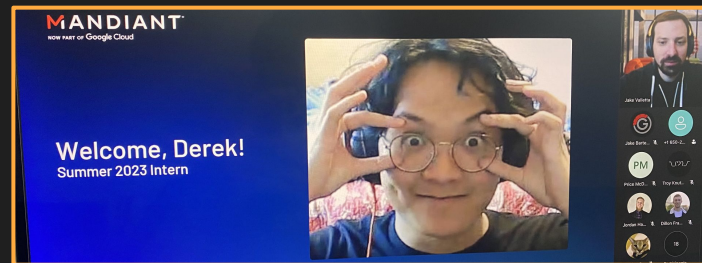
Dylan Tran



Marshall
Ung



Gabriel Fok



Derrick
Tran

Agenda

1 Objectives

Key goals for the bootcamp

2 Timeline

Content and schedule

3 Tryout Info

Requirements and other details

4 Alumni

Testimonials and prior experience



1

Bootcamp Objectives

Our goals for you

Cyber Bootcamp Objectives



Learn to Learn

Gain confidence in your ability to learn rapidly, and independently



Build Team Skills

Build relationships and showcase interpersonal skills



Prepare for the Future

Set a solid foundation and discover opportunities in cybersecurity



2

Bootcamp Timeline

Time commitments

Weekly Schedule

| Date | CPTC (10AM-12PM) | CCDC (1PM-4PM) |
|-----------|------------------------------------|----------------------------|
| Jul 8 | Cyber Bootcamp Kickoff! | |
| Jul 15 | Intro to Pen Testing | Business Week |
| Jul 22 | Hacking Web Apps | Introduction to Networking |
| Jul 29 | Hacking Linux | Securing Linux |
| Aug 5 | Hacking Windows | Securing Windows |
| Aug 12 | Consulting | Review Week |
| Aug 19-20 | CPTC Tryouts (All day) | |
| Aug 26-27 | | CCDC Tryouts (1-5PM) |

CPTC/CCDC Team Schedule

- Meet at least once a week (usually Saturdays) for practice
- Ad-hoc working/research meetings
- Competition weekends

| Month | CCDC | CPTC |
|----------|--------------------|-------------|
| November | Invitationals #1* | Regionals |
| December | Invitationals #2* | None |
| January | None | Globals |
| February | Regional Qualifier | Season over |
| March | Regional Finals | Season over |
| April | National Finals | Season over |

NCAE/Cyberforce Team Schedule

| Month | NCAE | Cyberforce |
|----------|---------------------|----------------------|
| October | None | Access to Cyberforce |
| November | None | Cyberforce |
| December | None | None |
| January | None | None |
| February | None | None |
| March | Regional Qualifiers | None |
| April | National Finals | Conquer The Hill |



3

Tryout Details

How to get on the teams

August 19–20

CPTC Tryout Date

August 26–27

CCDC Tryout Date

September 2-3

NCAE/Cyberforce Tryout Date

Selection Requirements

CCDC Team

- **Full-time** CPP Student
- Attend **Fall 2023 & Spring 2024**
- **Good** academic standing (2.0 GPA)
- Stand out during the bootcamp

CPTC Team

- **Full-time** CPP Student
- Attend **Fall 2023**
- **Good** academic standing (2.0 GPA)
- Stand out during the bootcamp

NCAE Team

- **Full-time OR Part-Time** CPP Student
- Attend **Spring 2024**
- **Good** academic standing (2.0 GPA)
- Cannot Participate in CCDC Events
 - For CPP, no CPTC involvement

Cyberforce Team

- 18+ years old
- "Actively attending the institution"
- **Good** academic standing (2.0 GPA)
 - For CPP, no CPTC/CCDC involvement

CCDC Rubric

| | |
|------------|-----|
| Homework | 40% |
| Attendance | 10% |
| Tryouts | 50% |

***CPTC* Rubric**

| | |
|------------|-----|
| Homework | 25% |
| Attendance | 10% |
| Teamwork | 10% |
| Tryouts | 55% |

NCAE/CYBERFORCE Rubric

| | |
|-----------------|-----|
| Homework (CCDC) | 30% |
| Tryouts | 70% |

Bootcamp Tips

- Be involved
- Take notes and research out of class
- Stay organized
- Google things and ask questions
- Work well in a team

And the most important thing:

- Bring a growth mindset





4

Former Participants

Standing on the shoulder of giants

Gabriel Fok

Led the 2022-2023 CCDC team as captain to place 2nd at the National Finals, and now works as a Information Systems Security Engineer at Boeing.



Alex Tselevich

Led the 2021-2022 CPTC team as captain to win the gold at the Global Finals, and now works as a red team consultant at Google.



Brice Lauer

Part of the 2020–2021 CPTC global finalist team, Linux team member of CCDC, and now works as a Detection Engineer at Anduril.



Luis Velasquez

Participated in CCDC/CPTC bootcamps in 2020 & 2021, and currently working as an Information Security Engineer at Cal/Amp. Also an active band member in up-and-coming thrash metal band Mortalis.



Q&A

Any questions for the teams?

CCDC Homework 1

<https://da.gd/ccdcweek1>

CPTC Homework 1

<https://da.gd/3EJOjc>