



i5 Cyber Course CTF Fundamentals

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C/4C Nacanaynay

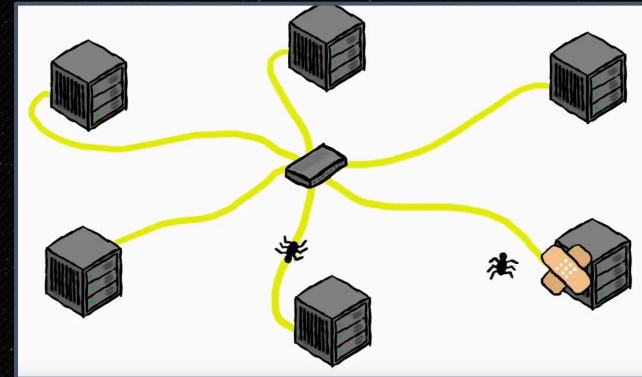
1. Intro to CTFs
2. Styles of CTFs
3. Competitions Format
4. Writeups
5. Ground Rules
6. Air Recommendations
7. General Solving Strategy
8. Additional Tips

- Capture The Flag
- Fun games where you try to find the password (flag) to submit for points
- Exercises for learning about cybersecurity
- Often have small prizes for winners (money, t-shirts, subscriptions)

- Jeopardy
 - You vs the creators
 - Solve challenges under different categories for points

- Attack-Defense
 - You vs other players
 - Protect your own assets and attack other players' things for points

Web	Crypto	Forensics	Reverse	Misc	Pwn
1	165	100	50	50	50
150	150	150	100	100	150
204	150	150	150	165	200
203	200	200	200	150	250
206	257	200	300	200	323
318	334	250	300	300	440
325	400	347	400		
	430	350			



- Teams of ~4-6 people
- Generally 48 hours long, some are over a week
- Top websites with CTF listings:
 - <https://ctftime.org>
 - <https://picoctf.org>

- Walkthrough for solving a CTF challenge
- Can be video but usually text
- Less formal writing style

- Do not attack host infrastructure (Denial of Service attacks)
- Do not share info with other teams
- You will usually have to wait at least a week before publishing solutions.



Air Recommendations

- GOOGLE GOOGLE GOOGLE BING YANDEX CHATGPT
- Use all tools at your disposal
- There are no “correct” solutions
- The space’s the limit

1. Read the Challenge

- Challenge descriptions will point you in the right direction
- Pay attention to category and number of solves

2. First Impression

- If you are given a website, explore it
- If you have any files, run them and explore
- Also read all files in notepad

3. Research

4. Tinker

5. Repeat

- Use all the tools at your disposal
- Most challenges should be solvable in a few minutes
 - This often rules out brute forcing
 - If what you're doing feels really stupid or inefficient, there's probably a faster way
- Again, pay attention for any hints the challenge authors might be dropping
- Research laterally
- Try a different problem if you feel stuck

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