



Introduction to CTFs

Phish 'n' Chips Team

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Who are we?

Students that enjoy solving
security challenges and have a
good time!



We don't bite (usually)

What is a CTF?



CTF stands for:

Capture the Flag

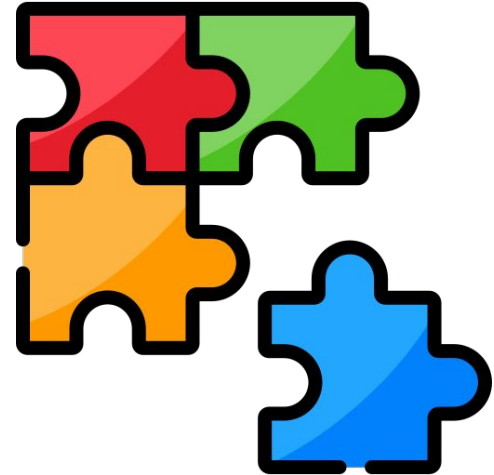
The flag is a token representing the solution of a challenge.

It usually looks like this:

```
flag{w0w_th1s_1s_l33t_stuff}
```

What kind of challenges are there?

- Reverse Engineering
- Binary Exploitation
- Web Exploitation
- Forensic and Steganographic Analysis
- Cryptography
- Programming
- Adversarial Machine Learning
- ...???



Jeopardy vs. Attack-Defense

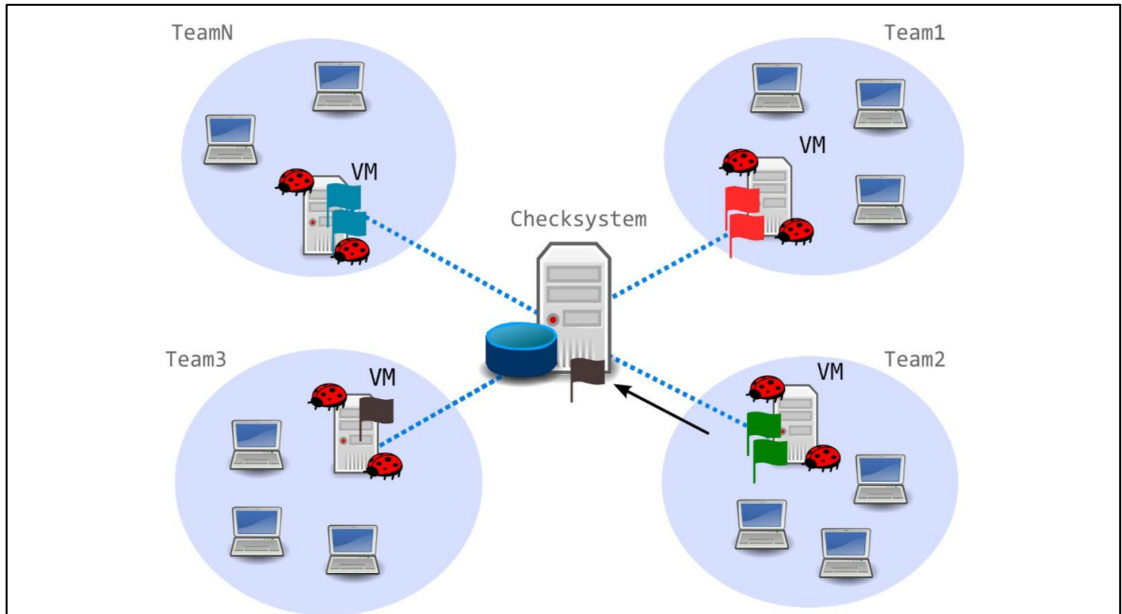
Phish 'n' Chips CTF Users Scoreboard Challenges

Challenges

Forensics

42.tar.gz ✓ 25	Table Tennis 50	
Data Exfil ✓ 100	My Secret Stash ✓ 100	
Neurosurgery 250	Pcap Me If You Can 300	From Our Fr 3
Lite Forensics 500		

Jeopardy



Attack-Defense

Famous CTFs

- CCC
- CodeBlue
- DEFCON
- HITCON
- UCSB's iCTF (academic only)
- PlaidCTF
- RuCTFe



Why CTFs?



You can **learn by playing**

You can develop ***your own* tools** to solve specific tasks

You will encounter **demanding but rewarding** challenges

Teamwork!

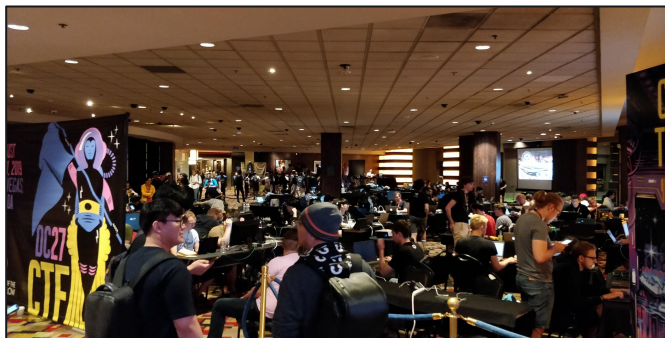
Why CTFs? [in pictures]



Phish 'n' Chips @ HECC 2019



Xbox hacking @ DEFCON 27



DEFCON 27 Arena



Thanks!

Questions?

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