

WHAT IS A CTF?

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CTFs are hacking games

A CTF (**Capture The Flag**) is a (generally) competitive **hacking game**.

The goal is to find a specific string called **flag** and submit it

A flag usually looks like
something similar to this



`ptm{th1s_1s_4_fl4g}`

TRY IT YOURSELF!

What do you usually do in a CTF?

During a CTF you are required to **exploit** a vulnerability, solve logic puzzles or **understand** what a process is doing and what to do in order to **abuse** it.

There are 2 main types of CTFs

- Jeopardy
- Attack/Defense

How jeopardy CTFs work

Jeopardy style CTFs are probably the **most common** type.

During this kind of CTF you are given a set of **challenges** (usually divided by category and difficulty) to solve in a given amount of time.

In this type of there is **no interaction** between different teams.

The main categories are:

- rev
- pwn
- Cryptography
- Web
- Misc

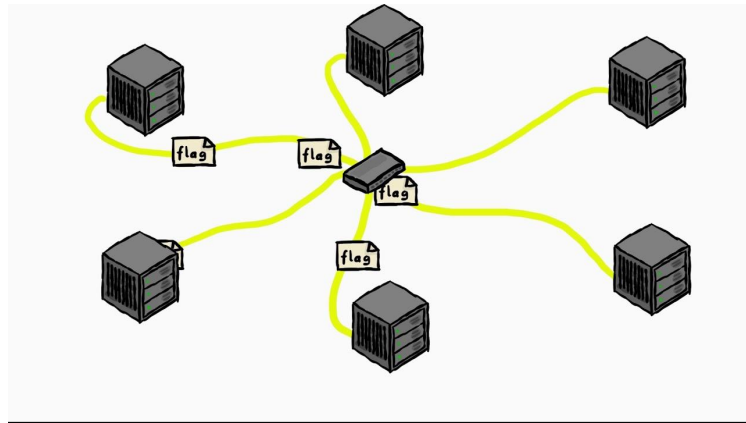
pwn			
assembler 123	decrypte 227	knock 393	recruster 479
knob 470			
crypto			
This is RSA 124	bobaru 144	urara 240	shaacac 327 ✓
crustard 393			
misc			
Whisper 51 ✓	Survey 64	W3Bthrough 305	CONWool 345
web			
Beginner's Capsule 130	Milk 186	Capsule 197	Milk Revenge 205
para 184			
reversing			
SCRAM Reversing 129	True 311 ✓		

How Attack/Defense CTFs work

During A/D CTFs, every team has a **machine** with its own services, which are the same for everyone.

Every machine is connected to the same **network** and exposes its services.

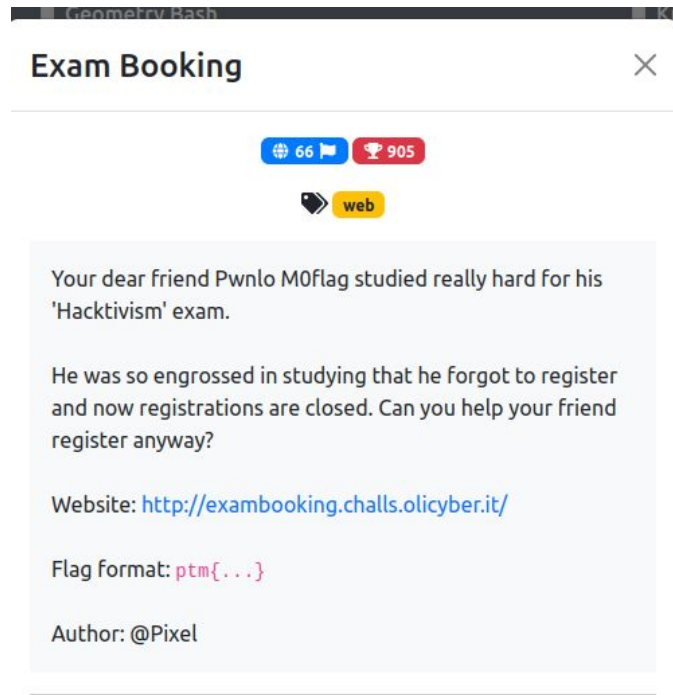
Players have to **find vulnerabilities** in these services, exploit them to **attack** others and patch the services to **defend** themselves from the attacks.



Here's an example of a challenge

We will see how to solve it in the **3rd workshop**

<http://exambooking.challs.olicyber.it/>



Useful ctf sites

(NOTE: you might need to register)

- <https://training.olicityber.it/>
- <https://picoctf.org/>
- <https://overthewire.org/wargames/>
- <https://cryptohack.org/>
- <https://portswigger.net/web-security>
- <https://pwn.college/>
- <http://pwnable.kr/>
- <https://247ctf.com/>
- <https://tryhackme.com/>