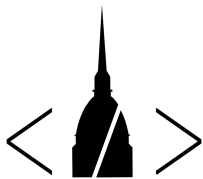


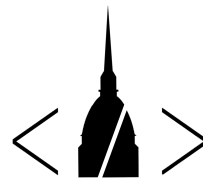
WHAT IS A CTF?

Join the telegram channel for the slides





pwnthem0le



Cybersecurity and competitive hacking

A CTF (**Capture The Flag**) is a 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 AND WIN A STICKER!

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 CTF there is **no interaction** between different teams.

The main categories are:

- rev
- pwn
- crypto
- web
- misc

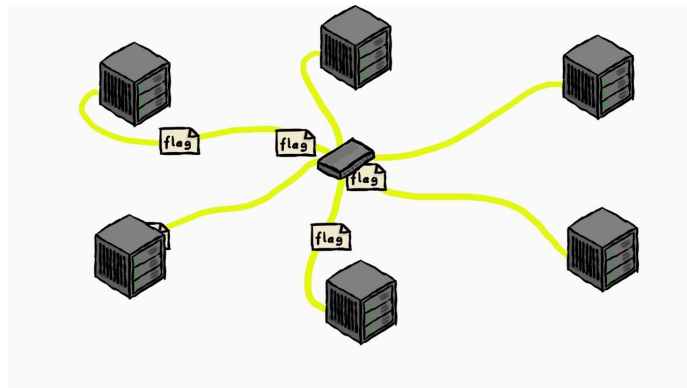
pwn			
pearlman 123	lazynote 227	lastack 393	encryptor 470
kvdb 470			
crypto			
This is RSA 124	hellfire 144	orara 240	challenge 207 ✓
crypto01 393			
misc			
Welcome 11 ✓	Survey 66	WAFthrough 305	CONVus 365
web			
Beginner's Capsule 130	M0k 186	Capsule 197	M0k Revenge 205
panda 248			
reversing			
SCSBK:Reversing 129	free 215 ✓		

How Attack/Defense CTFs work

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

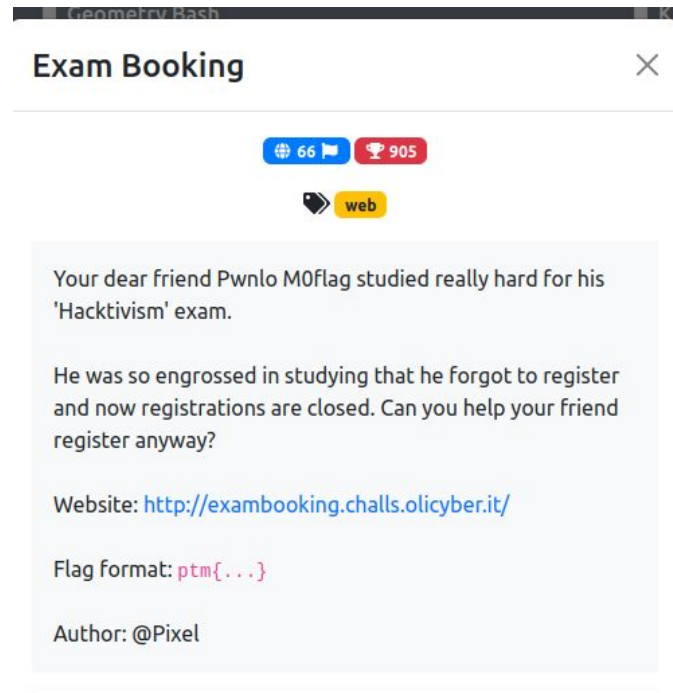
Every machine is connected to the same **network** and exposes its services.

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

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



Useful ctf sites

- <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/>

NOTE: some websites require registration, but don't worry, it's free