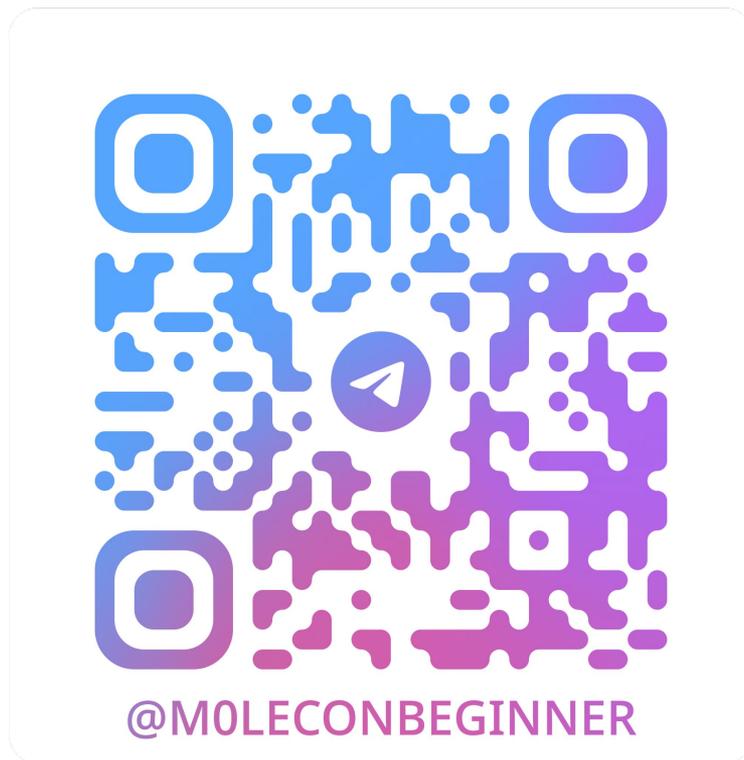


WHAT IS A CTF?

Join the telegram channel for the slides



CTFs are hacking games

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!

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

A grid of jeopardy-style CTF challenges. Each challenge is represented by a dark grey box with the category name at the top, the challenge name in the middle, and the score at the bottom. Some boxes are highlighted in green, indicating they have been solved. A checkmark is visible in the top right corner of the solved boxes.

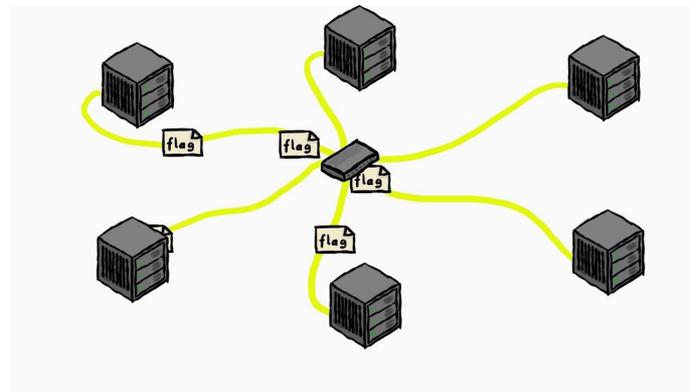
pwn			
paramop 123	lazynote 227	listack 393	encryptor 470
kvdb 470			
crypto			
This is RSA 124	before 144	orara 240	tharble 297
crypto01 393			
misc			
Welcome 11	Survey 66	WAFthrough 205	CONVas 265
web			
Engineer's Capsule 130	Milk 186	Capsule 197	Milk Revenge 205
posts 248			
reversing			
CSBK:Reversing 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.

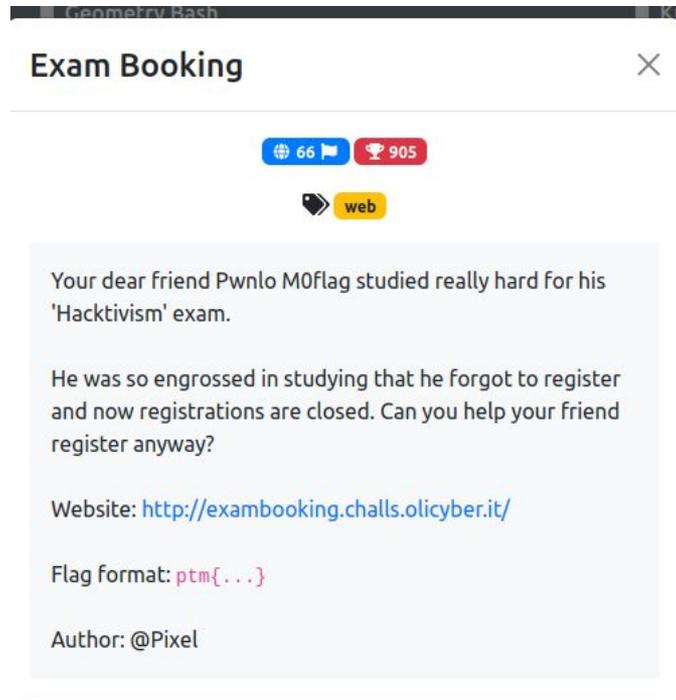
Players have to **find vulnerabilities** in these services, exploit them to **attack** others and patch the services to **defend** themselves from the attacks.



Here's an example of a challenge

We will see how to solve it in the **4th workshop**

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



The screenshot shows a browser window with the title 'Geometry Hash' and a page titled 'Exam Booking'. The page features a close button (X) in the top right corner. Below the title, there are two social media-style buttons: a blue one with a globe icon and the number '66', and a red one with a trophy icon and the number '905'. A yellow button with a key icon and the text 'web' is positioned below these. The main content area is a light blue box containing the following text:

Your dear friend Pwnlo M0flag studied really hard for his 'Hactivism' exam.

He was so engrossed in studying that he forgot to register and now registrations are closed. Can you help your friend register anyway?

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

Flag format: `ptm{...}`

Author: @Pixel

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