Intro to CTF / Setup

OSDC: Open Source Developers' Community of JIIT Noida , 62



CTF

{ Capture The Flag }

kind of information security competition,
in which players put their skills to solve variety of
tasks ranging from solving
problems or to break into an opponent's system.

7

s4m71ng_s4m71ng_l1k3_7h15

Gamified hacking

Today's meet will focus on CTF contests

We learn to:

- Reverse engineer programs
- Find bugs and hack things
- Break insecure cryptosystems

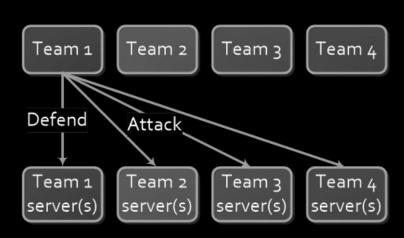


TYPES of CTFs:

1. Jeopardy Style



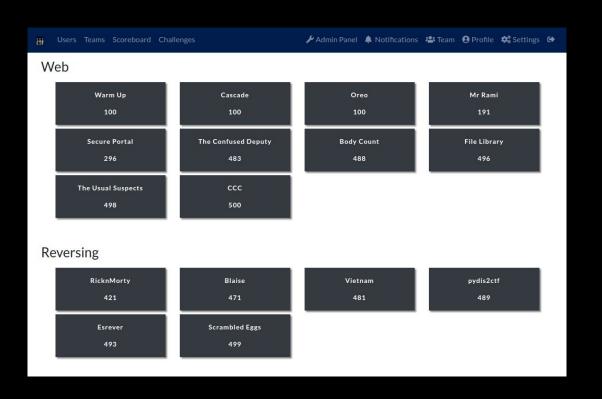
2. Attack / Defense Style



Jeopardy style CTFs challenges are typically divided into categories

- Cryptography Typically involves decrypting or encrypting a piece of data
- Steganography Tasked with finding information hidden in files or images
- Binary Reverse engineering or exploiting a binary file
- Web Exploiting web pages to find the flag
- Pwn Exploit a binary typically running on a remote server

What might a typical CTF look like?



Why play CTFs?

CTFs are a great opportunity to:

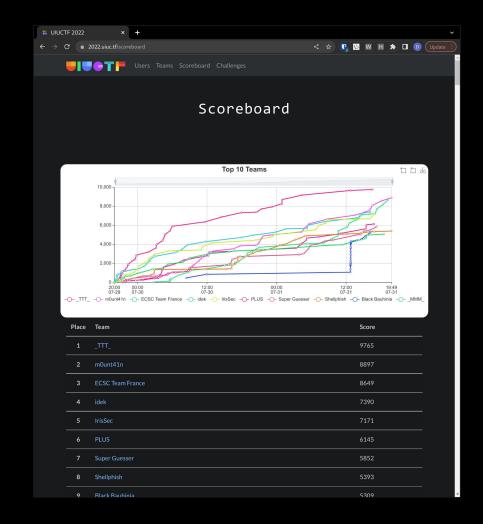
- Have fun
- Meet an awesome community
- Learn a lot about tons of topics
- Win prize money and free trips

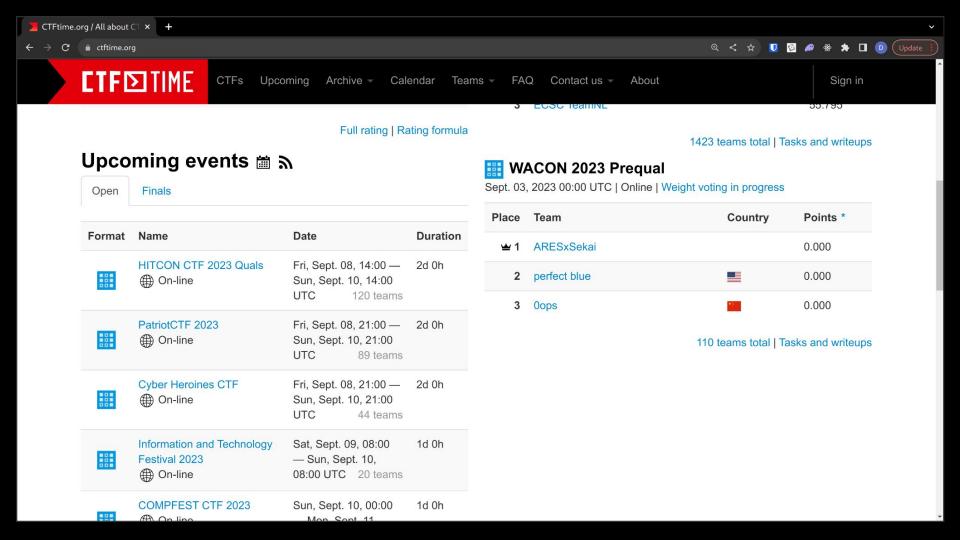
DiceGuesser



How do I start playing?

- Introductory
 - picoCTF (CMU)
 - TJCTF (TJHSST)
 - HSCTF (WW-P HSN)
- Intermediate
 - CSAW CTF (NYU Tandon)
 - UIUCTF (UIUC)
- Professional
 - DEF CON CTF
 - PlaidCTF (CMU)
 - DiceCTF





Prerequisites

You would think that doing CTFs would require a lot of prior knowledge, but that is not actually true. In reality, it only requires:

- Willingness to learn
- That's about it:)

No but really, in reality you just need to be willing to Google search and ready to explore!





flag{thanks_for_coming!}

Further practice

https://overthewire.org/wargames/bandit/

Resources

- CTF teams: https://ctftime.org/stats/
- Upcoming CTFs: https://ctftime.org/event/list/upcoming
- Learn more about CTF:
 - https://trailofbits.github.io/ctf/
 - https://ctf101.org/
 - https://pwning.net/2014/04/01/why-ctf/
- Get started: https://picoctf.org/