



Introduction to CTF

LosFuzzys Beginner Training

Markus Schiffermüller

Capture The Flag (CTF)



Hacking Competition

```
LosCTF{THIS_IS_A_FLAG}
```

Goal is to **get the flag** and submit it to the CTF platform

CTF challenges



Small challenge with security vulnerabilities

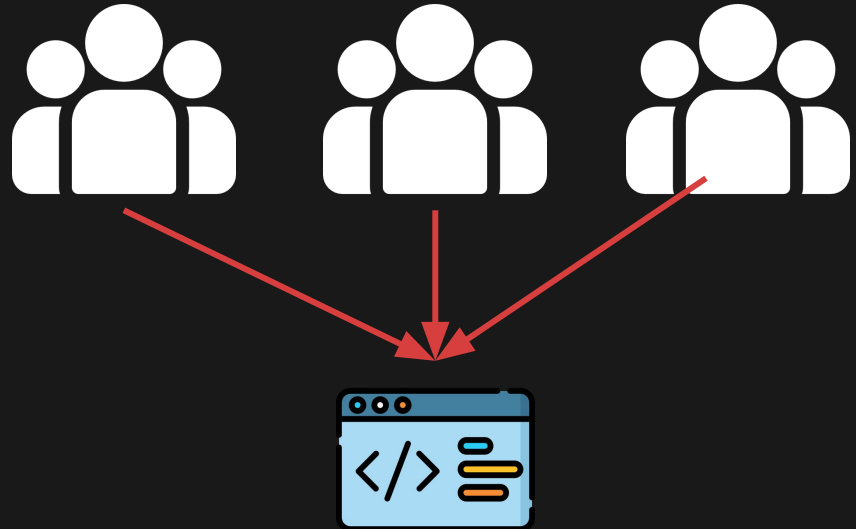
Executable, Website, Hardware,
Encrypted data, etc...

CTF Types



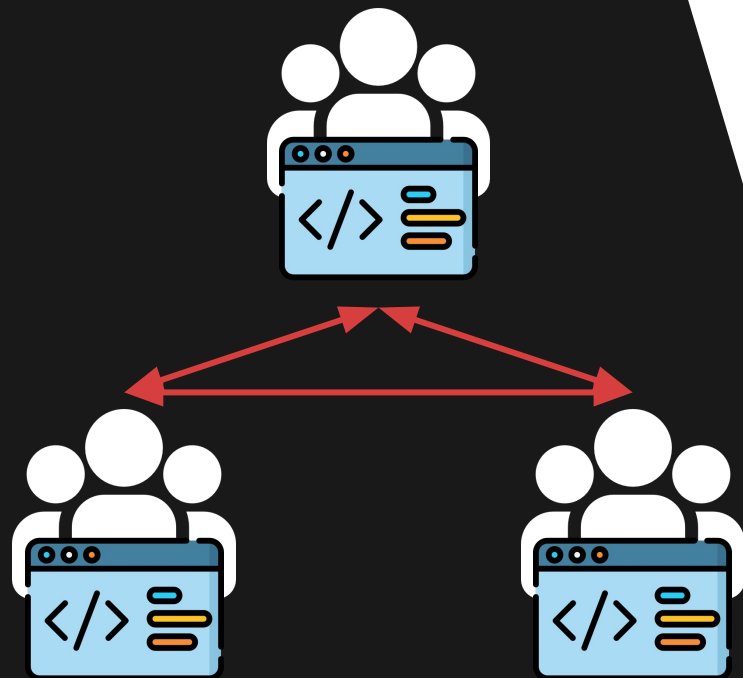
Jeopardy

- Limited time
- 24/7 CTFs



CTF Types

Attack-Defense



Categories

pwn: Exploit bugs on a remote machine

web: Exploit a website

reversing: Understanding obfuscated program

crypto: Breaking a cryptographic system

misc: Surprise :)





Challenges

reversing

My first reversing chall 11	My second reversing ch 12	web2admin stage 4 50	compile-leak 70
not_a_llama 75	shuffle64 100	smarties 100	αιθήρ 350
PokemonGo 500	b-less 1337		

pwn

Oh my Buffer 10	Are you awake? 20	babyheap 50	fmt64 50
--------------------	----------------------	----------------	-------------



Challenges

reversing

My first reversing cha 11	My second reversing ch 12	web2admin stage 4 50	compile-leak 70
not_a_llama 75	shuffle64 100	smarties 100	αιθήρ 350
PokemonGo 500	b-less 1337		

pwn

Oh my Buffer 10	Are you awake? 20	babyheap 50	fmt64 50
---------------------------	-----------------------------	-----------------------	--------------------



Challenge 213 Solves

X

My first reversing challenge

11

Can you help me find the flag?

Download [lvl1](#)

Flag

Submit

reversing

My first reversing ch

11

compile-leak

70

not_a_llama

75

shuffle64

100

smarties

100

αιθής

350

PokemonGo

500

b-less

1337

pwn

Oh my Buffer

10

Are you awake?

20

babyheap

50

fmt64

50



Challenge **213 Solves** ✕

My first reversing challenge

11

Can you help me find the flag?

[Download](#) lvl1

Flag

reversing

My first reversing challenge	11	compile-leak	70	
not_a_llama	75	shuffle64	100	
		smarties	100	
			αιθήρ	350
PokemonGo	500	b-less	1337	

pwn

Oh my Buffer	10	Are you awake?	20	babyheap	50	fmt64	50
--------------	----	----------------	----	----------	----	-------	----



Challenge 213 Solves ✕

My first reversing challenge

11

Can you help me find the flag?

[Download](#) lvl1

Flag

reversing

My first reversing challenge	11	compile-leak	70
not_a_llama	75	shuffle64	100
PokemonGo	500	smarties	100
		αιθής	350
		b-less	1337

pwn

Oh my Buffer	10	Are you awake?	20	babyheap	50	fmt64	50
--------------	----	----------------	----	----------	----	-------	----



Challenge 213 Solves ×

My first reversing challenge

11

Can you help me find the...

[Download](#) lvl1

Flag

reversing

My first reversing ch 11	compile-leak 70
not_a_llama 75	shuffle64 100	smarties 100	αιθηρ 350
PokemonGo 500	b-less 1337		

pwn

Oh my Buffer 10	Are you awake? 20	babyheap 50	fmt64 50
--------------------	----------------------	----------------	-------------



Challenge 213 Solves



My first reversing challenge

11

Can you help me find the flag?

lv1

Flag

Submit

reversing

My first reversing ch

11

compile-leak

70

not_a_llama

75

shuffle64

100

smarties

100

αιθής

350

PokemonGo

500

b-less

1337

pwn

Oh my Buffer

10

Are you awake?

20

babyheap

50

fmt64

50



Challenge 213 Solves

My first reversing challenge

11

Can you help me find the flag?

lv1

Flag

Submit

reversing

My first reversing ch

11

compile-leak

70

not_a_llama

75

shuffle64

100

smarties

100

αιθής

350

PokemonGo

500

b-less

1337

pwn

Oh my Buffer

10

Are you awake?

20

babyheap

50

fmt64

50



Challenge 213 Solves



My first reversing challenge

11

Can you help me find the flag?

lv1

reversing

My first reversing challenge	11	compile-leak	70
not_a_llama	75	shuffle64	100
PokemonGo	500	smarties	100
		αιθής	350
		b-less	1337

pwn

Oh my Buffer	10	Are you awake?	20	babyheap	50	fmt64	50
--------------	----	----------------	----	----------	----	-------	----



Why should I play
CTFs?

Why should I play CTFs?

Learn about cyber security

Meet new people

Travel


Fun





Important remarks for playing CTFs



CTF  TIME

Team rating

2022 2021 2020 2019 2018 2017 2016 2015 2014 2013
2012 2011

Place	Team	Country	Rating
1	perfect r00t		953.339
2	C4T BuT S4D		931.343
3	organizers		899.872
4	Water Paddler		826.718
5	Bushwhackers		789.082
6	Never Stop Exploiting		755.532
7	Nu1L		661.713
8	DiceGang		655.401
9	r3kapig		623.499
10	idek		605.598

[Full rating](#) | [Rating formula](#)

Upcoming events

Open

Format	Name	Date	Duration
	THS CTF 2022 Warsaw, Poland	Fri, Oct. 14, 08:00 — Fri, Oct. 14, 14:00 UTC	6h 17 teams
	ASIS CTF Quals 2022 On-line	Fri, Oct. 14, 14:00 — Sat, Oct. 15, 14:00 UTC	1d 0h 84 teams
	DEADFACE CTF On-line	Fri, Oct. 14, 14:00 — Sun, Oct. 16, 00:00 UTC	1d 10h 102 teams

Past events

With scoreboard All

GDG Algiers CTF 2022

Oct. 09, 2022 18:00 UTC | Algiers | [Weight voting in progress](#)

Place	Team	Country	Points *
1	Project Sekai		0.000
2	idek		0.000
3	fa2yXhfz		0.000

[720 teams total](#) | [Tasks and writeups](#)

CyberSecurityRumble CTF

Oct. 09, 2022 17:00 UTC | On-line | [Weight voting in progress](#)

Place	Team	Country	Points
1	Balsn		124.000
2	justCatTheFish		82.604
3	r3kapig		72.271

[260 teams total](#) | [Tasks and writeups](#)

Srdnlen CTF 2022

Oct. 09, 2022 12:00 UTC | On-line | [Weight voting in progress](#)

Place	Team	Country	Points *
1	Tower of Hanoi		0.000
2	pwnthem0le		0.000
3	MadrHacks		0.000

[203 teams total](#) | [Tasks and writeups](#)



Questions?