Getting Started In Security With CTF

Let's Go!

Get To Know Me

Linuz Tri Erianto

CTF Player - CSI IPB

linkedin.com/in/linuztri/

Who Am I

Motivated to be an expert in IT Security. Always like to learn a new things and never give up

Awards

- 1st Place HacktivityCon 2021 CTF, held by HackerOne
- 1st Place CyberJawara CTF 2021, held by ID-SIRTII / CC
- 1st Place KKS TNI AD CTF 2021, held by Cyber Community TNI-AD
- 3rd Place Wreckit CTF 2021, held by National Cyber and Crypto Polytechnic

/Topics

/01 /What is CTF

/02 /Where Do We Start

/03 /Benefit From CTF

/04 /Strategy to Win

/01

/What is CTF

Press → to Continue

/What is CTF

Capture the Flag (CTF) is a special kind of information security competitions. There are three common types of CTFs: Jeopardy, Attack-Defence and mixed.

/Types of CTF

/Jeopardy

Jeopardy-style CTFs has a couple of questions (tasks) in range of categories. For example, Web, Forensic, Crypto, Binary or something else.

/Attack & Defense

Here every team has own network (or only one host) with vulnarable services.

/Others

Others type CTF like Boot2Root, King of The Hill, Wargames, etc.

/Jeopardy CTF

/Cryptography

> Math Guy

/Binary Exploitation

> Exploit is My DREAM!

/Reverse Engineering

> Let’s Reverse the World!

/Website

> SPAM!
> DDOS!

/Forensic

> I Can See the Future

/Misc

> Random Stuff

CTF vs Bug Bounty What is The Difference?

/Capture The Flag vs Bug Bounty

/Capture The Flag

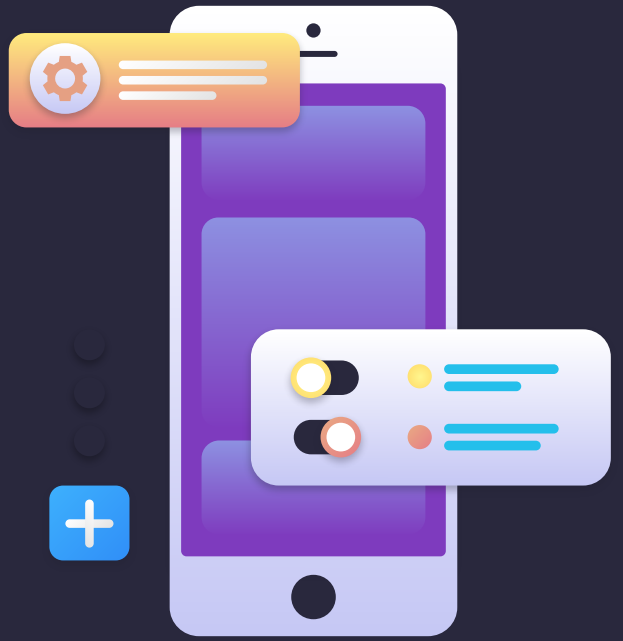
Given a challenge that has 100% bug in that challenge, and you need to exploit it.

/Bug Bounty

Given a lot of company programs, and you need to find a bug of that program.

/02
/Where Do We Start

Smile to Continue

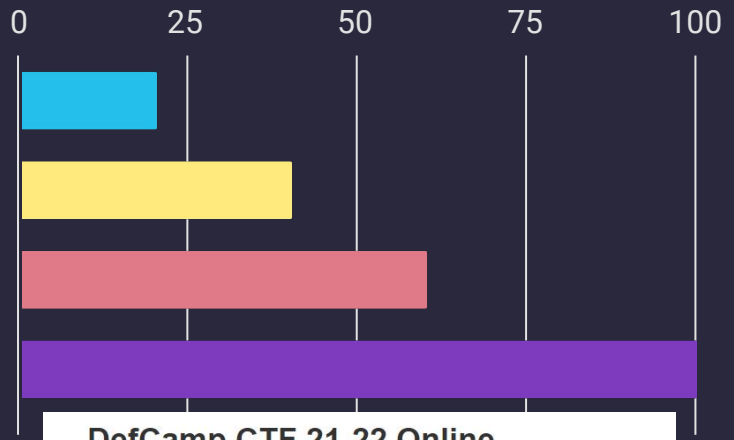


/Starting Point

1. Youtube CSI IPB
2. Picoctf.org (Start from 2019 for Basic Linux)
3. Ctftime.org

We just need Linux or Mac to playing CTF.

/Rating Weight CTFTIME



DefCamp CTF 21-22 Online

Fri, 11 Feb. 2022, 16:00 WIB — Sun, 13 Feb. 2022, 22:00 WIB

On-line

A Defcamp CTF Qualification event.

Format: Jeopardy

Official URL: https://dctf21.cyberedu.ro/

This event's future weight is subject of public voting!

Rating weight: 43.08

Event organizers

/Easy

Recommended for Beginner

/Medium

More Challenging Problems

/Hard

More Complex Challenges

/Insane

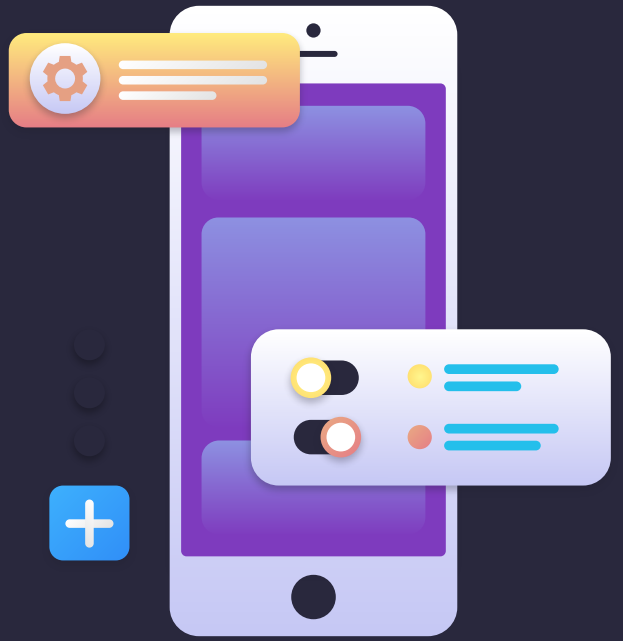
Real F****ng World Challenges and 0day

/Some Good Resources

1. Google.com
2. Youtube Liveoverflow
3. Youtube Johnhammond
4. HackTheBox

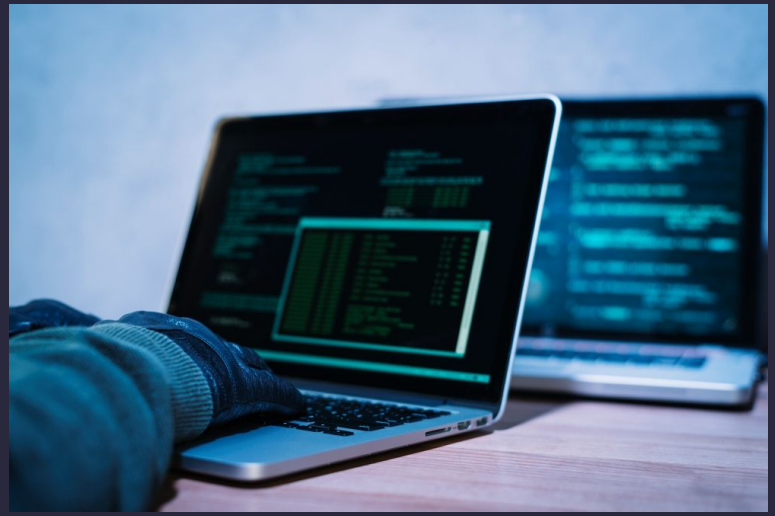
/03
/Benefit From CTF

Let’s Go



/01

Learn Basic Hacking Skills



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/02

Introduction to Realistic Attack Scenario

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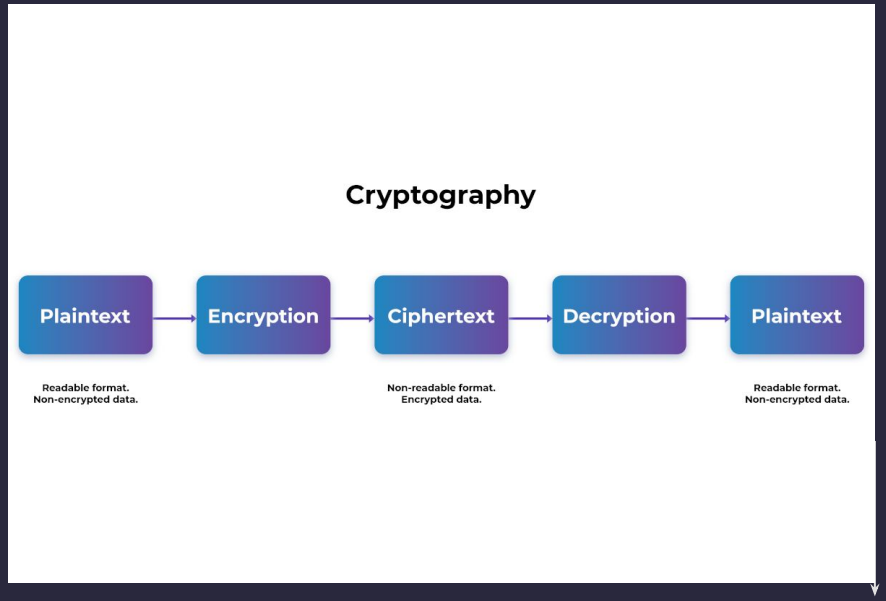
If You Expert in One Category

Cryptography

1. Cryptographer
2. Cryptanalyst
3. Blockchain Engineer



If You Expert in One Category

Binary Exploitation

1. Game Hacking
2. Vulnerability Researcher
3. Exploit Development

```
(gdb) run $(python -c "print('\x12' * 50)")
Starting program: /root/Desktop/bufferoverflow/example3 $(python -c "print('\x12' * 50)")

Program received signal SIGSEGV, Segmentation fault.
0x800011ef in main ()
(gdb) info registers
eax            0x0      0
ecx            0x12121212       303174162
edx            0xbffff343       -1073745085
ebx            0x12121212       303174162
esp            0x1212120e       0x1212120e
ebp            0x12121212       0x12121212
esi            0xb7fa9000       -1208315904
edi            0x0      0
eip            0x800011ef       0x800011ef <main+70>
eflags         0x10282  [ SF IF RF ]
cs             0x73     115
ss             0x7b     123
ds             0x7b     123
es             0x7b     123
fs             0x0      0
gs             0x33     51
(gdb)
```

If You Expert in One Category

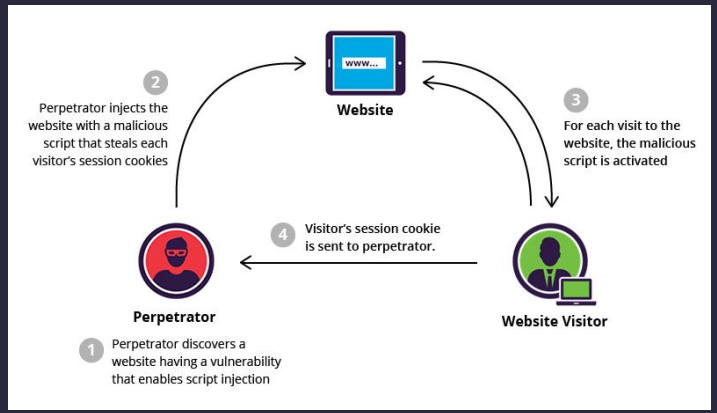
Reverse Engineering

1. Mobile Reverse Engineering
2. Penetration Tester
3. Vulnerability Researcher

If You Expert in One Category

Website Exploitation

1. Penetration Tester
2. Bug Bounty
3. IT Security Consultant



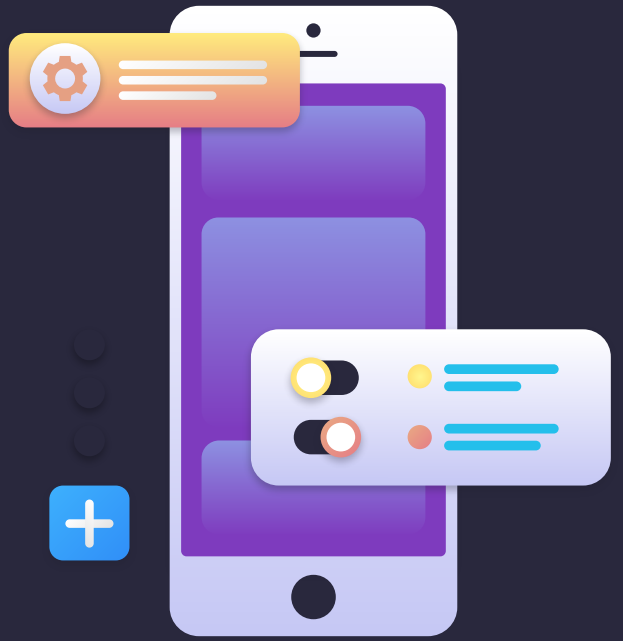
If You Expert in One Category

Forensic

1. Cyber Forensic Analyst
2. Security Operation Centre

/04 /Strategy to Win

Strategy to Win a CTF Competition



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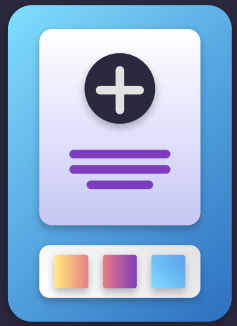
Make a Balance Team



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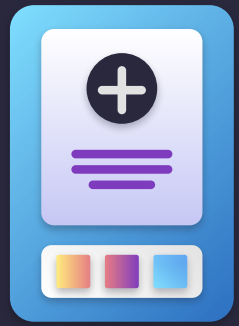
Just In Time Learning



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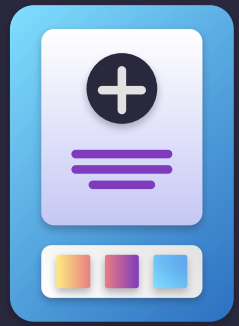
Try Hard



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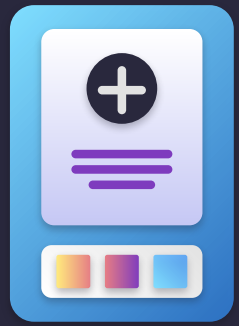
Pray



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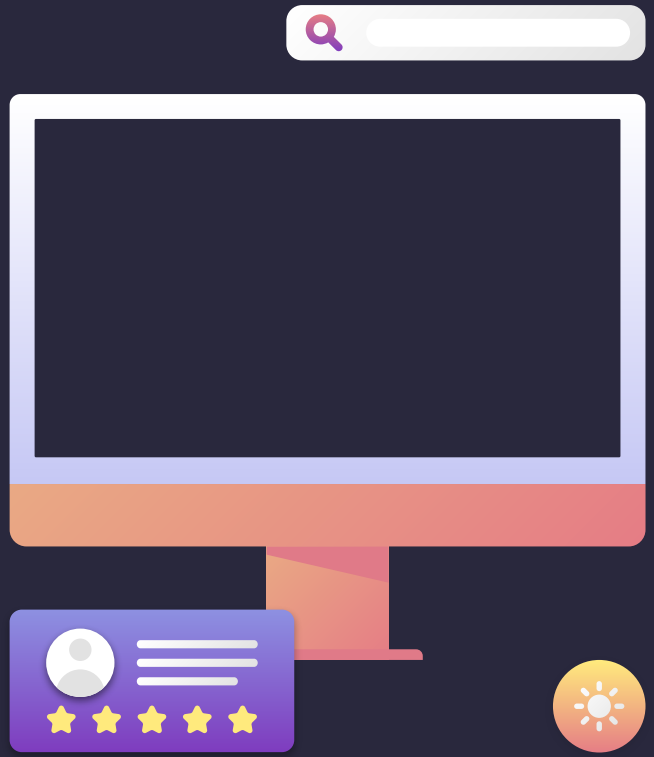
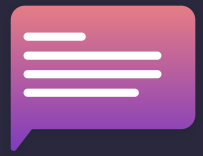


Quotes

“If you want to be an expert in anything, there is no fast way to achieve that. Enjoy the process you learning, no need to hurry, but dont be lazy.”

Thanks!



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