



# INTRODUCTION

CTF & Bug Bounty Program



CTF

C A P T U R E   T H E   F L A G

Adeputra Armadani, JNA, CND

College Trigunadharma Academi

Telegram : <https://t.me/Armadhani>

Github : <https://github.com/armadani>

Community : MNTCampus, iL7Team, Sulawesi IT Security,  
Medan bug hunter Community

Project Pentest : Trigunadharma Academi, paluKota Gov, Gorontalo Gov

Bug Bounty Program : dewaWeb, Doku Payment, kitchenIndo

Bug noBounty : BSSN, SumutProv, VoVa, xendit, indotrading



ABOUT Me

Adeputra Armadani | McMillan/Cao~Cao



# TOPIC

1

## Introduction To CTF

will discuss CTF, history, and benefits

2

## How is the CTF Competition going?

will discuss team work, duty, web CTF, Crypto CTF, Reversing CTF, Forensic CTF, etc.

3

## What should be prepared to join the CTF?

will discuss about prepared to join the CTF.

4

## Q & A

Your Question & My Answer

# Introduction To CTF

Discuss CTF, history, and benefits for this Competition

## Capture The Flag

competition in the field of information security



# Introduction To CTF

Discuss CTF, history, and benefits for this Competition

## Competition Format

Jeopardy & Attack - Defense

# Introduction To CTF

Discuss CTF, history, and benefits for this Competition

## Flag Format

Flag{MyFlag}, CTF{ }, Gemastik{ }

# Introduction To CTF

Discuss CTF, history, and benefits for this Competition

## CTF History

- DEFCON 1996; attack defense
- Hackthissite.org 2003
- CTFtime - 2011

## CTF Indo History

- Bellua Cybersecurity -2005
- Echo – 2006
- Idsecconf - 2008



# Introduction To CTF

Discuss CTF, history, and benefits for this Competition

## Benefits

Fun, Rewards, Testing skills, Legal, Walking, Reputation



### Indonesia 3rd Winner in world hacking competition

The event which was held on 16-17 October 2013 was an international hacking competition attended by 10 teams from 7 countries: Korea, Japan, the Netherlands, Singapore, Malaysia, Vietnam and Indonesia.



### ITB students won 1st place at Cyber South East Asia Game 2017

Only the winner of Cyber Jawa Indonesia 2017 will be honored to represent Indonesia at the Cyber SEA Game 2017 event



### Tel-U Wins 6th place in Cyberlimpics 2014 at Barcelona

representing Asia and Indonesia to compete in the 2014 Global Cyberlympics final at Barcelona.



# How is the CTF Competition going?

will discuss team work, duty, web CTF, Crypto CTF, Reversing CTF, Forensic CTF, etc.

# How is the CTF **Competition** going?

will discuss team work, duty, web CTF, Crypto CTF, Reversing CTF, Forensic CTF, etc.

Team

3 - 4 /Team, 6 - 10 luar negeri, 1 /Team

Challenge

category, web, forensic, reversing, pwnables, and misc.

Point

enter the flag, and you get point

# WEB



- How to hack the website;
- How we can able hack the admin access;
- Bypass;
- Http exploit;
- SQL Injection;

# Tips for Learning

optimis, spirit and work hard

## Write Coding

---

write simple coding

## Technique

---

Basic knowledge learn about how to sql injection, rce, ce, lfi, brute force, crawling.

## Tools

---

you can use Burpsuite, gobuster, dirsearch, nikto, The harvester, etc.

CRyPTo

Kriptografh;  
classic algorithm;  
rot13, xor, etc;  
AES, RSA, ECC;  
encoding, decoding;  
custom encryption;

# Tips for Learning

optimis, spirit and work hard

## Knowledge

---

knowledge some kind  
algorithm cryptograph,  
hash, encoding & decoding,  
encrypt & dencrypt.

## Custom encrypt

---

try it

## Tools

---

web based tools, RSAtools,  
xor tools, JTR, etc.



# NetWoRK



- finding of flag in traffic network;
- PCAP;
- HTTP, FTP, HTTPS;
- capture on network environment;

# FORensics



- extrack some data;
- information of hidden;
- extrack from disk image;
- memory dump;
- network capture;

# Tips for Learning

identification, analysis data and how to recover data.

## Knowledge

---

knowledge some format  
type data & file instruktur;  
extract data; data recovery

## Analys & identification

---


must be have best things

## Tools

---

foremost, binwalk,  
wxHexEditor, wireShark,  
autopsy;

# Reverse Engineering



reverse a code;  
assembly;  
c;  
memory allocation, pointer, function pointer;  
static analys & dinamic analys;  
binary & source code;

# Tips for Learning

life for binary and source code

## Knowledge

---

make a simple program and  
than compile and try to  
decompile the binary;  
reverse; analysis static and  
dinamic.

## buffer overflow

---

break point, heap overflow;

## Tools

---

IDA Pro, objdump,  
radare2;



W h a t   s h o u l d   b e   p r e p a r e d  
t o   j o i n   t h e   C T F . . ?

programming; networking; hack;

# 5 IMPORTANT POINTS

What should be prepared to join the CTF..?

What should be  
prepared to join  
the CTF..?

1

Programming

2

Networking

3

Network Programming

4

Linux & Command Line

5

Googling

# Testing Skills



join competition;  
test some challenge;  
reading & writing-UP CTF;  
documentation;



Join  
Community  
CTF



CTFd;  
OpenCTF;  
Rev.id;

# CTF Online



<https://ctftime.org/event/list/upcoming>

<https://Ctflearn.com/>

<https://www.hackthebox.eu/>

<http://pwnable.kr/>

<https://pwnable.tw/>

# CTF World



The Real CTF world>> 0-day;  
FLARE.on>> Reverse Engineering;  
DEFCON CTF>>jeopardy&attack-defense;  
Kaspersky CTF>>jeopardy&attack-defense;  
Google & Facebook CTF>>jeopardy&attack-defense;

eVent CTF  
Indo



cyber jawara;  
idsecconf;  
gemastik;  
arkavidia;  
cyber defense competition;



THANK YOU!

A n y   Q u e s t i o n s ?

Adeputra Armadani/McMillan – Capture The Flag  
INTRODUCTION TO CTF & BUG BOUNTY PROGRAM  
[https://s.id/CTF\\_MNTCampus](https://s.id/CTF_MNTCampus)