

Information

Security



Join the group

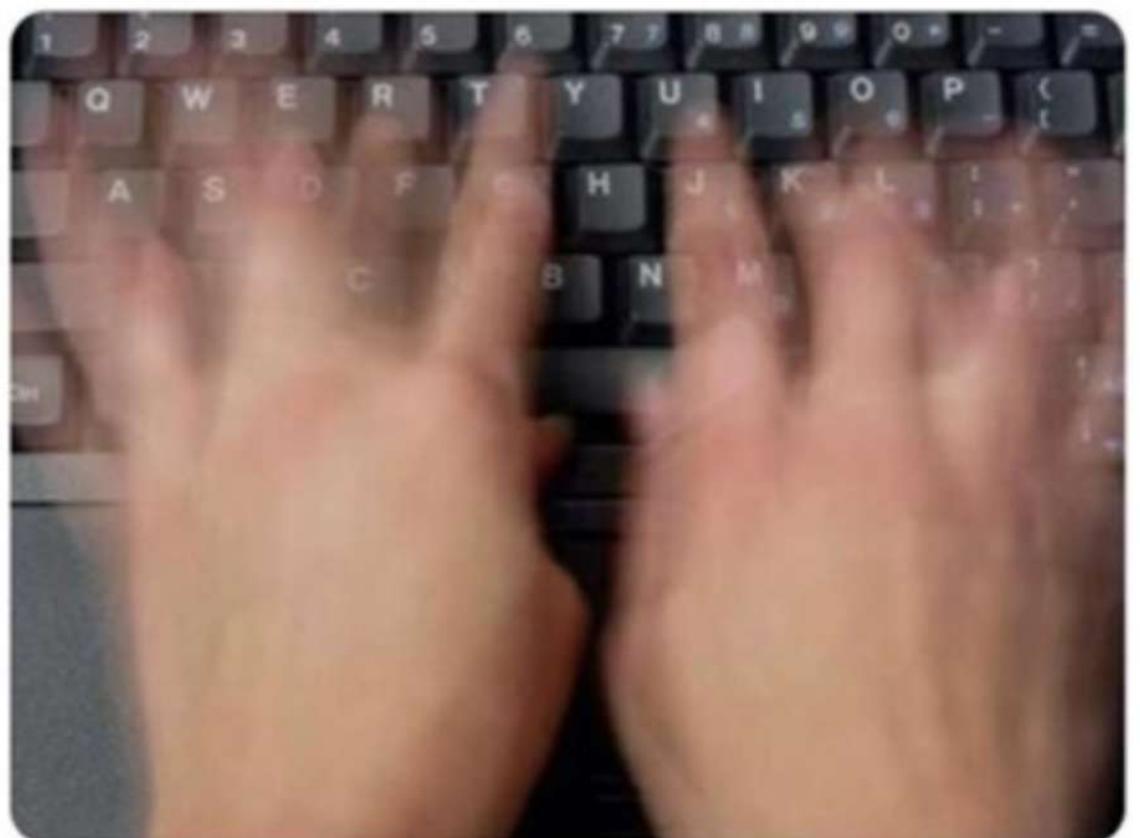


# Hacking in Movies

Nobody:

Hackers in movies:

khxjryvjhdjyvnojxjifybjjcc... I got it.



"Hurry up!"  
"We're almost out of time"

\*Setup always has a million computer screens\*



"We're in"



"We're in"



"I can't get in! Their firewall is atomically encrypted"



\*Types random letters and numbers vigorously at 3000 WPM\*

X69MYYZxpuN8Rzpqm2duTemrmyznf8R7HABOj  
zfaonsAHAGo046BiSSaA43iumRjxIM1ccna8  
UGs01DRf1026WcVL2sWqxyH1VESyrgDkIewyR  
v8uq12Ez27ylbnv0QMwqcDAGE8E1+e1lsvky  
27mMBN9mxua1LcBMGe f5xLyGMOR1PCB0s5vP  
7MF0wynb2Q7SrC1zPpe6yza4ua4MXCveF4eM  
0iiAs1ecwi1s7WD19gwf1sDN5awHKB4mA5dyE5  
Jxqub5Hvs iBaCq f1lM1dib43S+1D7tXyri p  
4wWgGyr1qj1M04rQaeA5u poedpsbGBqSe x6o1  
nTVDgSON10zztLSA1uWmnKN1eGcSnk f1wW9Be  
Hgm7A3bOsR9q5h4oSqXt111ar82qg6t21sns1  
GORknh1x4pskU2vx4wY51NjBsSY6cDDhaFgn1  
QqkXRjxveziktlrToFRCOPLRwm97y58RsmMRE



Computer/hacking scene in movies starterpack

\*Says random fancy words like "quantum," "mainframe," and "bandwidth" that make no sense in its context\*



"The trojan has already infected thousand of systems across the globe"



"Just keep him on for 5 more seconds"

"Cell phone satellite triangulation complete.  
Location determined."

# VS Real Life



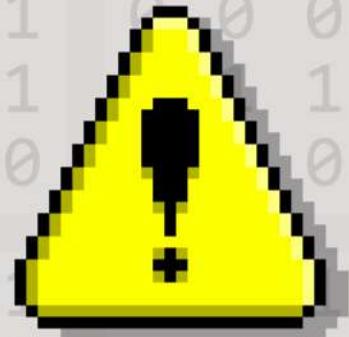
Most of the times, its  
just a dude staring at  
a computer banging  
their head. :[

What is Infosec?



# What is InfoSec?

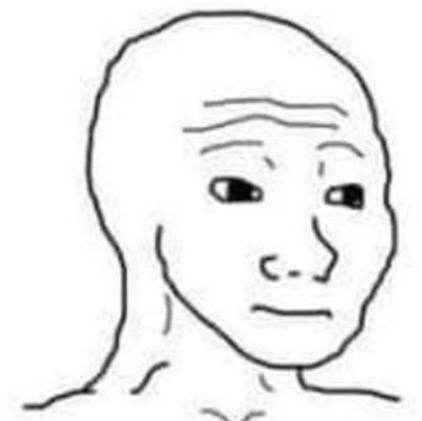
It is about protecting information and ensuring its confidentiality, integrity, and availability against any threats.



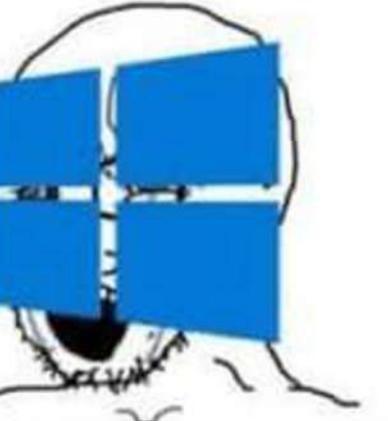
Finding vulnerabilities in systems and software and making sure no one can exploit them.



# --- Choosing Your Weapons ---



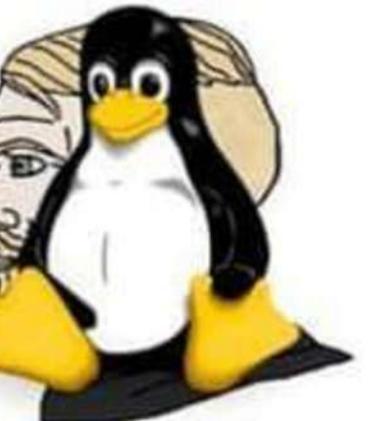
hey can i uninstall edge



NOOO!!! YOUR SYSTEM WILL  
BREAK



im going to uninstall the  
bootloader



go ahead lol

Linux users when their house is  
on fire and the only way out is  
through the windows



# Why Linux?

```
⇒ 2
    0x5555555555257 <main+40>      mov     esi, 0
                                         ESI
⇒ 0
    0x555555555525c <main+45>      mov     rdi, rax
                                         RDI
⇒ 0x7ffff7e0a5c0 (_IO_2_1_stdout_) ← 0xfbdbad2084
    0x555555555525f <main+48>      call    setvbuf@plt
                                         <setvbuf@p
lt>

    0x5555555555264 <main+53>      lea     rax, [rip + 0xda8]      RAX ⇒ 0x555555
556013 ← '/dev/random'

[ STACK ]
00:0000 | rbp rsp 0x7fffffffdd40 → 0x7fffffffddde0 → 0x7fffffffde40 ← 0
01:0008 | +008      0x7fffffffdd48 → 0x7ffff7c27675 ← mov edi, eax
02:0010 | +010      0x7fffffffdd50 → 0x7fff7fc2000 ← 0x3010102464c457f
03:0018 | +018      0x7fffffffdd58 → 0x7fffffffde68 → 0x7fffffe1d2 ← '/hom
e/armoredvortex/Code/ascension/out_of_tries/a.out'
04:0020 | +020      0x7fffffffdd60 ← 0x1fffffdda0
05:0028 | +028      0x7fffffffdd68 → 0x555555555522f (main) ← push rbp
06:0030 | +030      0x7fffffffdd70 ← 0
07:0038 | +038      0x7fffffffdd78 ← 0xdc7586ad13f41482

[ BACKTRACE ]
▶ 0 0x5555555555233 main+4
  1 0xffff7c27675 None
  2 0xffff7c27729 __libc_start_main+137
  3 0x5555555550e5 _start+37
```

```
pwndbg> x/40x $rsp
0x7fffffffdd40: 0xfffffdde0      0x00007fff      0x7c27675      0x00007fff
0x7fffffffdd50: 0xf7fc2000      0x00007ffr      0xffffde68      0x00007fff
0x7fffffffdd60: 0xfffffdde0      0x00000001      0x555552f      0x00005555
0x7fffffffdd70: 0x00000000      0x00000000      0x41412      0x0000586ad
0x7fffffffdd80: 0xffffde68      0x00007f      0x00000000      0x00000000
0x7fffffffdd90: 0xf7ffd000      0x00007f      0x00000000      0x00000000
0x7fffffffddaa0: 0x12941482      0xdc758f      0x00000000      0x00000000
0x7fffffffddb0: 0x00000000      0x00000000      0x00000000      0x00000000
0x7fffffffddc0: 0x00000000      0x00000000      0x00000000      0x00000000
0x7fffffffddd0: 0xffffde68      0x00000000      0x00000000      0x00000000
pwndbg>
```

( ^ E [ k e \ \ z 5 Z D Z 3 3 ;  
\* / e x k R T u Y ' 6 u s 0 c ;  
3 < A < N M " M B H L : Y ? i v  
2 s h & L S w u y N ? p u g % F  
& 7 - H l N M @ ; I - \$ u p V H  
x b J [ D 8 < \* I 1 R Z ` N \$ 7 o v  
H ( v < : I > 2 n 1 \ ? y A \* Q ) . 5 v  
( < : j 6 ( i 5 E l L 8 3 L G R \* C D 2 s 5  
Z a ] & m : i L # Y d T Q G 9 w u 4 s  
I 0 & ' D 6 t & [ 6 w ' @ 5 Q ` y 1 Q v  
D s ! \* K S S T ( \* o C B F ) ! I s ^ M T  
q o \$ D < u S i J U l L = < t 9 U w #  
l ' 7 - V " , L ] R 8 y J y z + g x #  
M ' R = f r 5 " 4 7 \$ s - M b J Q  
j + ( w Z u y 8 l ] Z / 5 I E .  
r Q 2 @ < P j s \$ B , , 6 2 o ! f 4  
o c 1 a R K T Q I < \ E D h 5 Y p ] t e

fa%  
→ ~ fastfetch



## ◆ コンピューター

```
▲ OS : Arch Linux x86_64
● Kernel : Linux 6.16.3-arch11
■ Packages : 1549 (pacman)
□ Display : 2880x1620 @ 120 Hz
□ WM : Hyprland 0.50.1 (Wayland)
▣ Terminal : kitty 0.42.2
```

👤 : armoredvortex@vivobookS15

► CPU : 13th Gen Intel(R) CorH

# Domains of InfoSec

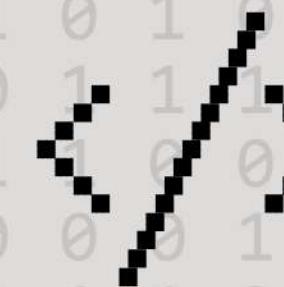
Cryptography



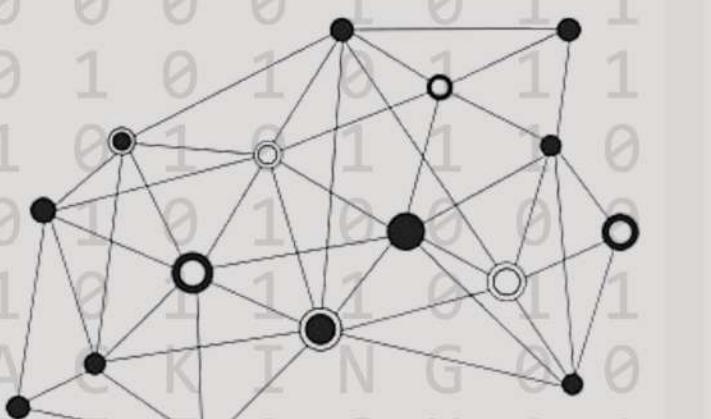
Forensics



Web Exploitation



Networking



Reversing



OSINT



# Capture the Flag

Platforms to Practice



**PearlCTF**

Hosted by us!



# Cryptography in Action

HACKING WEB INTERNE

Red  
Wheelbarrow  
**BBQ**



North Carolina BBQ  
**Fast and Fresh**



Eclectic and Decadent  
Southern and Southern inspired

This is a cipher message.

# Enigma machine WW2



Do you know him?

Challenge For You!

Pbatengfbhjva!

# Challenge For You!

Congrats you Win!

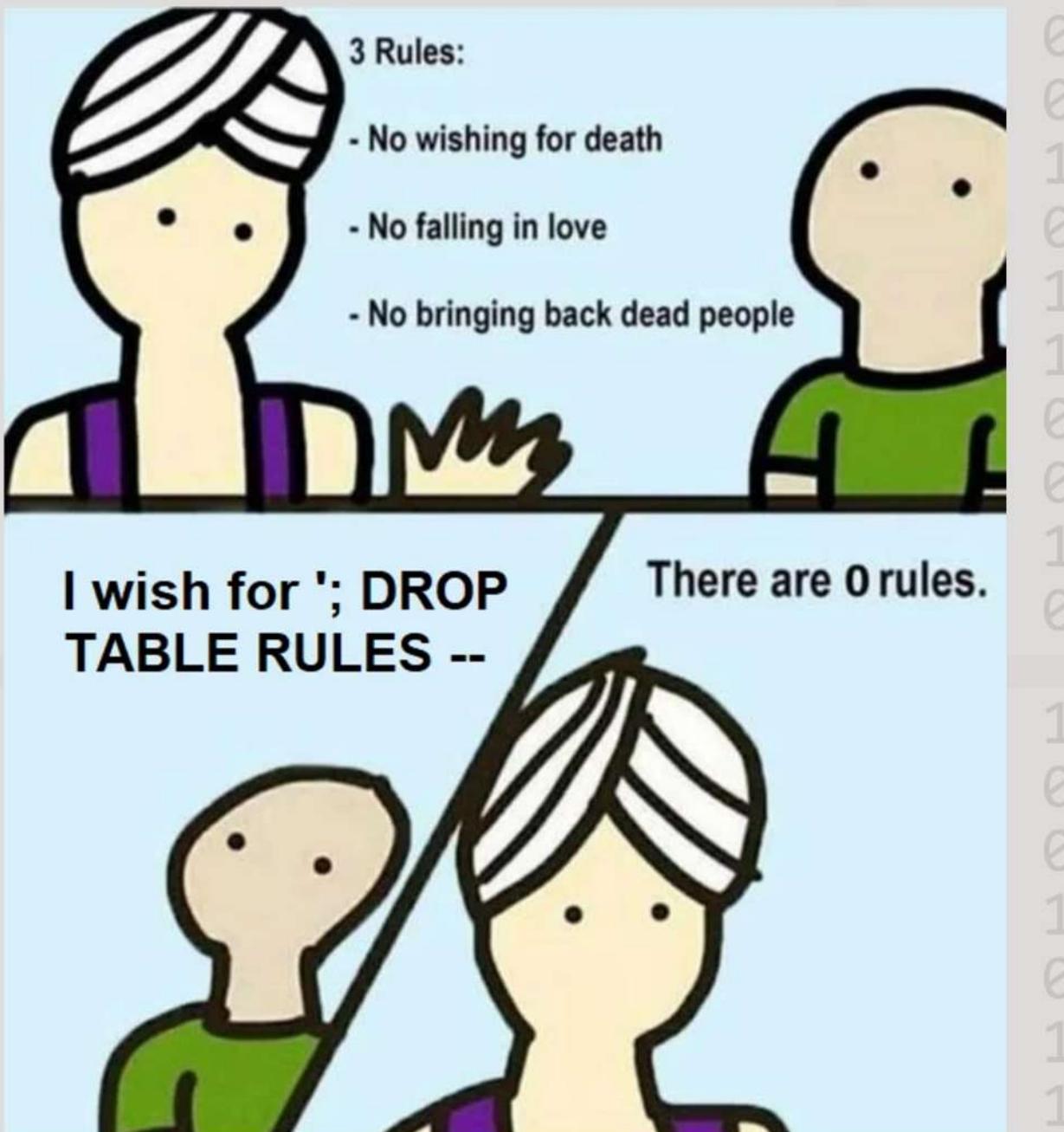
All the values were shifted by 13!  
A->N C->P  
B->O D->Q...

# Forensics Demo

Do you know that deleting files does not  
actually “delete” them?

rm v/s shred

# Web Exploitation

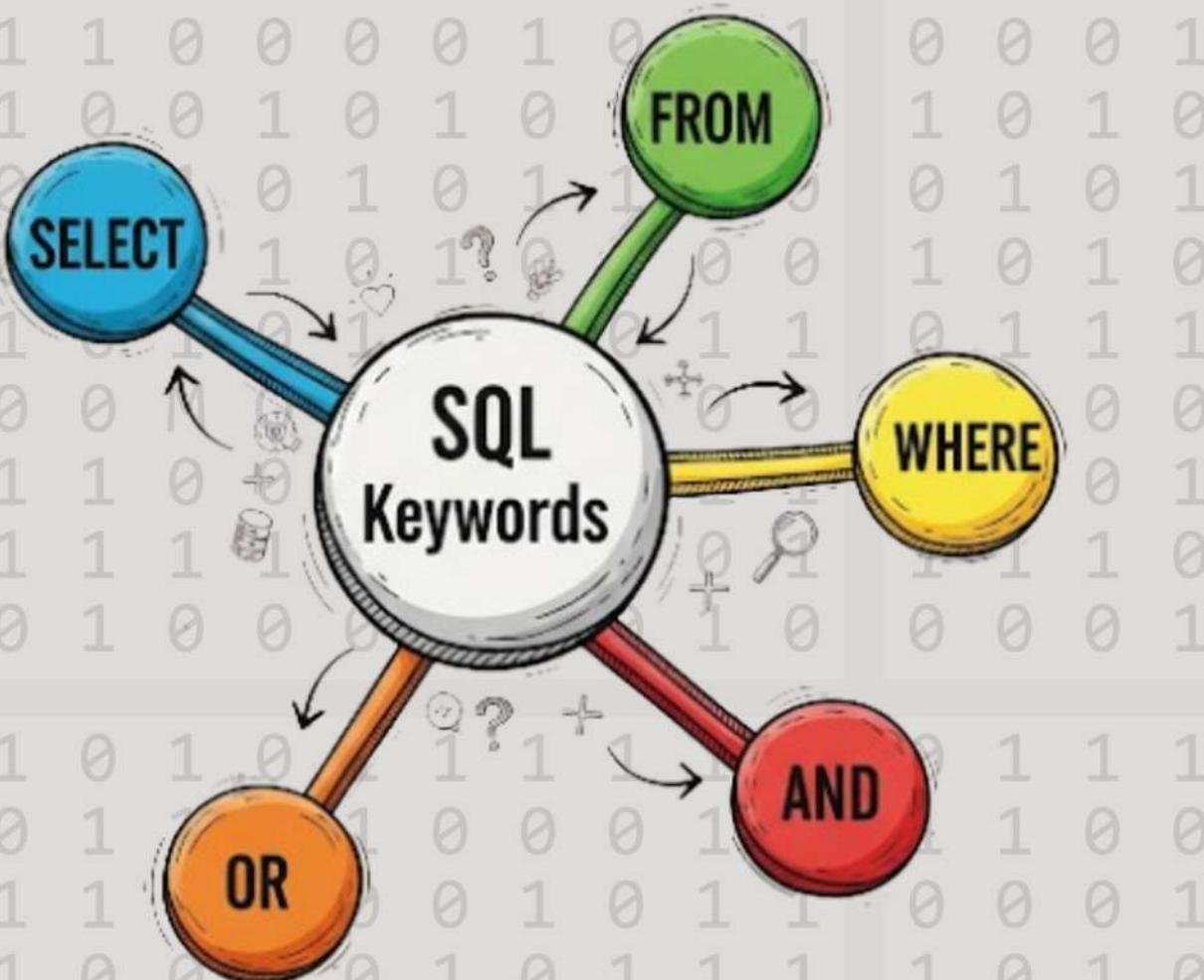


## SQL Injection

- SQL = Structured Query Language
- Used to interact with databases  
[store, fetch, update data]

# Web Exploitation

## SQ<sub>L</sub> Injection



users	
username	password
admin	1234
iamgreedy	greedy123

```
SELECT * FROM users WHERE username = 'admin'  
AND password = '1234';
```

# Web Exploitation

## SQl Injection

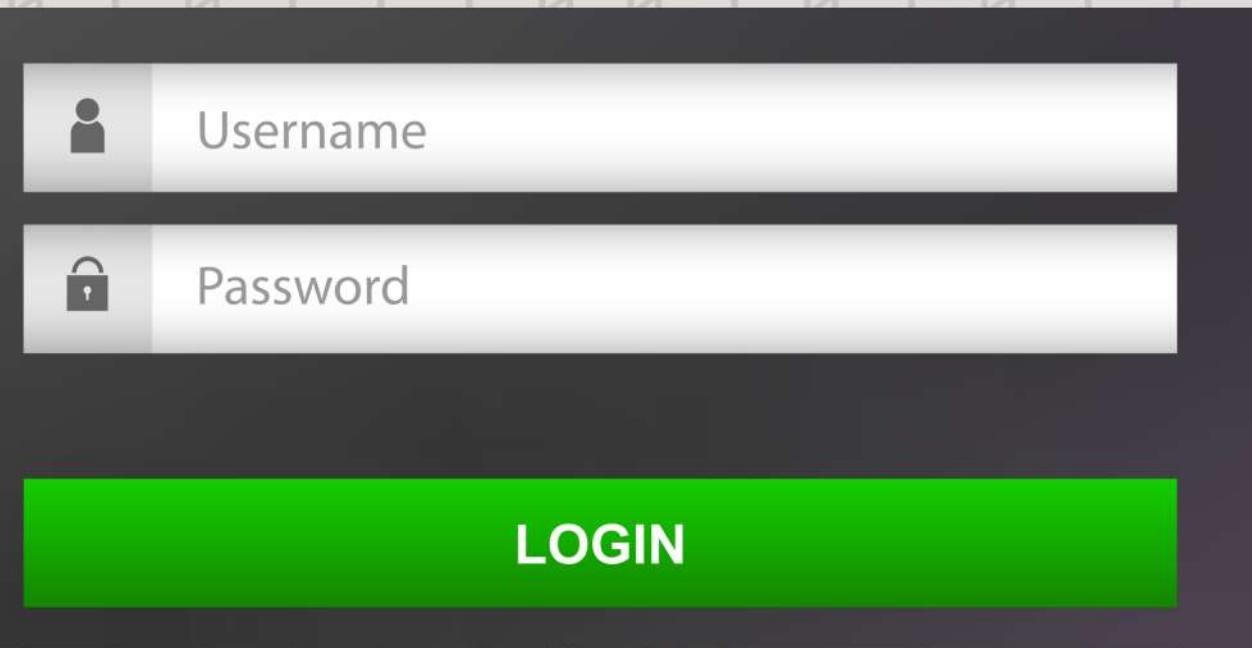
Open the link below:

<https://fsociety.infosec.org.in>

are you able to see your marks??

# Web Exploitation

## SQL Injection



```
query = f"SELECT * FROM users WHERE username  
= '{user_id}' AND password = '{password}'"
```

# Web Exploitation

## SQL Injection

user\_id=admin  
password=1234

```
query = f"SELECT * FROM users WHERE username  
= 'admin' AND password = '1234'"
```

# Web Exploitation

## SQL Injection

- `user_id=' OR 1 = 1 --` - -- this is a comment
- `password=1234`

```
query = f"SELECT * FROM users WHERE username  
= '' OR 1 = 1 -- AND password = '1234'"
```

**SELECT \* FROM users WHERE username = '' OR 1 = 1**

# Steganography



Try to find what's within:  
[www.aperisolve.com](http://www.aperisolve.com)

Did you find the secret?



This is the  
hidden image!

Choose Your Pill  
flag{morpheus}

# Steganography

I wonder what the audio is about...



Figure out what is happening!

Sounds like gibberish  
to me :[

**What is bro saving?**

You found the flag!!

foundme:  
flag{hi2}

# Frequency Analysis

Hydrogen is a chemical element with the symbol H and atomic number 1. It is the lightest and most abundant element, constituting about 75% of all normal matter. The Sun is mainly hydrogen in a plasma state. Under standard conditions, hydrogen is a gas of diatomic molecules with the formula H<sub>2</sub>; it is colorless, odorless, non-toxic and highly combustible.

VIEW : + Plaintext ▾

ENCODE DECODE : + Alphabetical substitution ▾

VIEW : + Ciphertext ▾

PLAINTEXT ALPHABET	CIPHERTEXT ALPHABET
abcdefghijklmnopqrstuvwxyz	zyxwvutsrqponmlkjihgfedcba

CASE STRATEGY: Maintain case FOREIGN CHARS: Include Ignore  
→ Encoded 355 chars

Sbwiltvm rh z xsvnrxz o vovnvmg drgs gsv hbnylo S zmw zglnrx mfnyvi 1. Rg rh gsv ortsgvhg zmw nlhg zyfmwzmg vovnvmg, xlmhgrgfgrmt zylfg 75% lu zoo mlinzo nzggvi. Gsv Hfm rh nzrmob sbwiltvm rm z kozhnz hgzgv. Fmwvi hgzmwziw xlmwrgrlmh, sbwiltvm rh z tzh lu wrzglnrx nlovxfogh drgs gsv ulinfoz S2; rg rh xloliovhh, lwliovhh, mlm-glcrx zmw srtsob xlnyfhgryov.

# Resources



**CRYPTOHACK**

Cryptography

All domains



Web  
Exploitation



Linux

Fundamentals



pwnning



All are clickable links:]

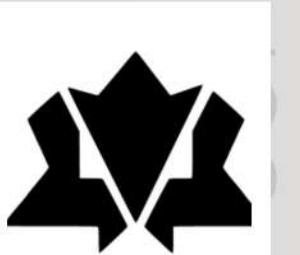
# Our Achievements

## PearlCTF 2025



Organizers

Hosted by  
Infosec Division



## Chronos CTF 2025

Rank #2

Organizers :  
IIT Mandi



## HACKFEST 2025

Rank #1 - Atom Mail

Yagyesh Agarwal

Rank #2 - Matics

Anubhab Aggarwal, Vivek  
Kumar, Ayush Kumar

## DarkLeadCTF 2025



Rank #2

Organizers :  
SRM University

## Pragyan CTF 2024



Rank #2

Organizers :  
NIT Trichy

## Technex CTF 2023



Rank #1

Organizers :  
IIT BHU



Rank #1

Organizers :  
IIT Mandi

## Vashisht CTF



Rank #2

Organizers :  
IIT DM,  
Kancheepuram

## Pico CTF 2023



Rank #3

Organizers :  
Carnegie Mellon  
University

and many more...

Join the discord channel

Make an account if  
you don't have one  
already.



<https://discord.gg/sMtk8ePEJB>

**Stalk ya later, Alligator**

