



① What is Hacking?

LAWYER
=
HACKER

- Breaks the law? No!
- People who ~~breaks~~ computer laws programming.
- Who actually follows the law.
- Who uses the laws efficiently.

Lawyer = Judicial System
Hacker = Computer System

to find loopholes.

Programming Possibilities = Possibilities of a Computer

② Why hacking?

Rule = Codes (Syntax = Format, Lang)

Law = Execution

Science + Technology \Rightarrow Applications.

① Using computers to commit a crime
(crackers, criminals)

② Committing crimes that damages a computer system itself. (Hackers)

\rightarrow Script Kiddies. (Script Kiddies)

\rightarrow Intermediate (Reverse Engineers)

\rightarrow Elite

③ Crackers: (Term originated in late 90's)

- Who uses other's tools.
- Less talented
- 2021 - Script kiddies.
- People who do Piracy. (Movies, Software, Games etc.,)
- Reverse Engineering → breaking copy protection schemes.
- Who clone software by hardware.

- ⑤ The original Hackers:
- 1939 => "Alan Turing"
"Father of Modern Computing"
- He used Maths & Electronics
to crack Enigma Machine. (Uses Cipher
to transmit secret messages to German
War Ships)
- Watch the movie
"The Imitation Game"
about
WWII

⑥ More original hackers:

1950 → MIT Model railroad club.

→ Donated used telephone equipment

→ Group of people setup a Rig.

↳ built a computer like system that allowed people

to control the dialing tracks

→ No Modemus, softwares involved.
All just electronics.

⑦ Limits of Hacking:

- Not just limited to computers & programming.
- Electronics,
- Automobiles
- Machines & Machinery
- Electrical Appliances
- Humans (Social Engineering)



PTO →
(Win Hack)

Security Accounts Manager (SAM)

- It is a database file
 - 95, 98, XP 7, 8, 8.1, 10, [11]
- Exists only on Windows OS
- It stores local user passwords.
- Since Windows 2000 - it also authenticates remote users (Active Directory)
- It won't work with MS Accounts.

- It uses cryptographic measures to prevent unauthenticated users accessing the system.
- The user passwords are stored as LM hash (or) NTLM hash depends on the version of OS & are stored in a registry hive called SAM located at

C:/Windows/System32/Config/SAM

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Bug:

It is the mistake the programmer did.

Vulnerability:

Because of the bug, what worst can be done (or) can happen.

Exploit:

Making it happen.

