

# INTRODUCTION

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# CONTENT

- Ethical hacking
- Who are hackers
- Types of hacker
- Hacking process
- Difference between hacker and cracker
- Why do we need ethical hacking
- Required skills of an ethical hacking
- Why do hacker hack
- Conclusion



# Ethical hacking :

- Independent computer security professionals breaking into the computer systems neither damaged target systems nor steal information. Evaluate target system security and report back to owners about the bugs found .





# Who are hackers ?

- A person who enjoys learning detail of programming language or system. A person who enjoys actually doing the programming rather than just theorizing about it. A person capable of appreciating someone else's hacking. A person who picks up programming quickly. A person who is an expert at a particular programming language or system



# Types of hacker

- ❖ Black hat hacker
- ❖ White hat hacker
- ❖ Grey hat hacker

## TYPES OF HACKERS:

White Hat vs. Black Hat & Every Shade in Between



# EXPLANATION:



- BLACK HAT HACKER :

A black hat hacker or cracker are individuals with extraordinary computing skills, resorting to malicious or destructive activities. That is black hat hackers use their knowledge and skills for their own personal gain probably hurting others.

- WHITE HAT HACKER :

White hat hackers are those individuals possessing hacker skills and using them for defensive purposes. This means that the white hat hackers use their knowledge and skills for the good of others and for common good.

- GREY HAT HACKERS :

These are individuals who work both offensively and defensively at various times. We cannot predict their behaviour sometimes they use their skills for the common good while in some other times he uses them for their personal gains.

# Hacking process

- Foot printing
- Scanning
- Gaining access
- Maintaining access



# Foot printing :

- Who is lookup
- NS lookup
- IP lookup





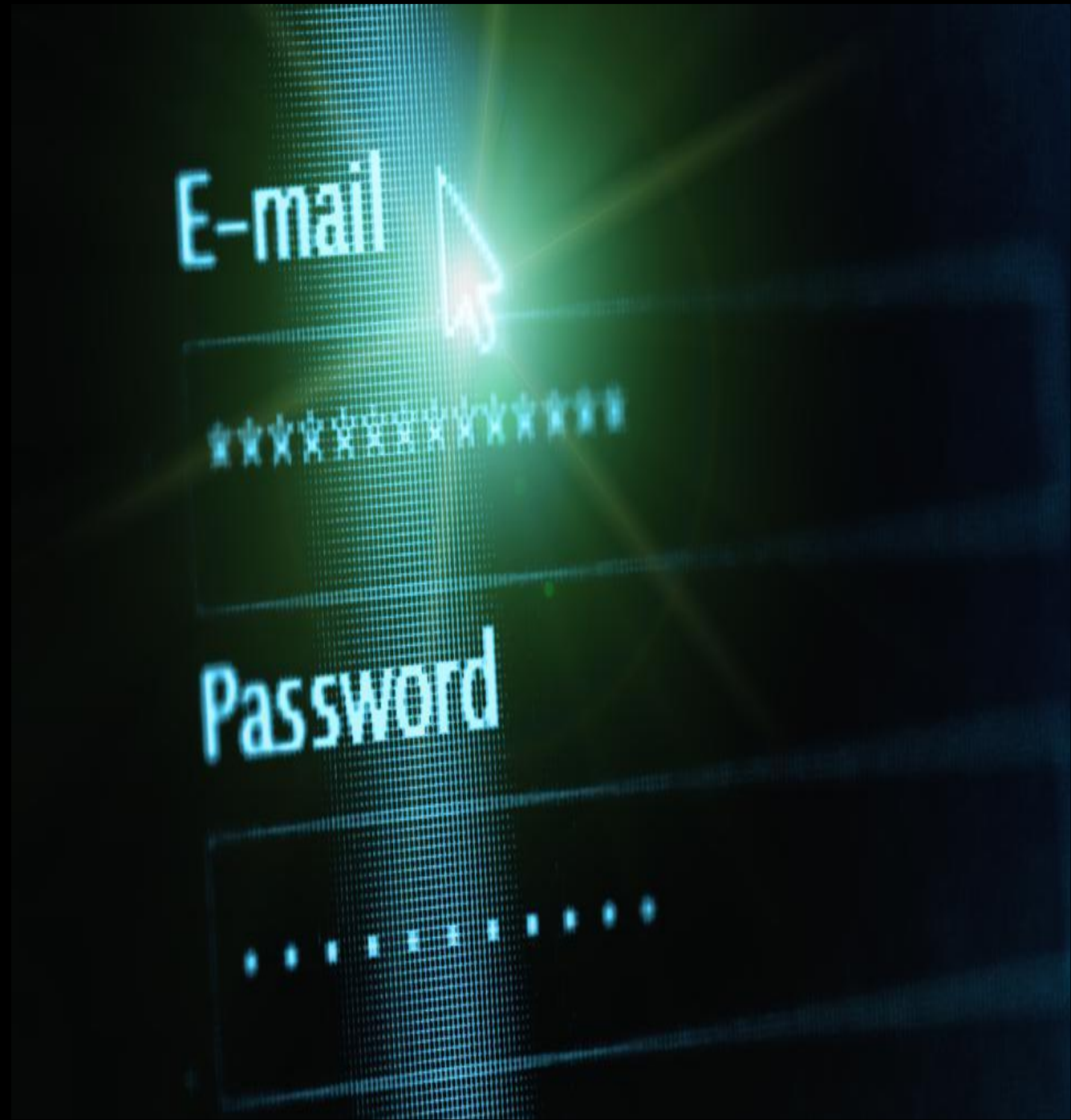
# SCANNING :

- port scanning
- network scanning
- finger printing
- fire walking



# GAINING ACCESS :

- Password attack
- Social engineering
- Viruses





# maintaining access :

- Os backdoors
- Trojans
- Clears tracks



# Why do we need ethical hacking :

- The prime purpose of ethical hacking is to prevent sensitive data from falling into enemy hands. It safeguards your company from blackmail by those willing to exploit the vulnerabilities via real words testing , you can enhance your digital network security and prevents security breaches.

```
$ ls -l /usr/bin/efstool
-rwxr-xr-x 1 root root 14056 Sep 25 01:28 /usr/bin/efstool
$ /usr/bin/efstool `perl -e 'print "A"x3000;`
Segmentation fault
$ gdb -q /usr/bin/efstool
(no debugging symbols found)...(gdb) run `perl -e 'print "A"x3000;`
Starting program: /usr/bin/efstool `perl -e 'print "A"x3000;`
(no debugging symbols found)...(no debugging symbols found)...
(no debugging symbols found)...(no debugging symbols found)...
(no debugging symbols found)...(no debugging symbols found)...
Program received signal SIGSEGV, Segmentation fault.
0x41414141 in ?? ()
(gdb) print $pc
$1 = 0x41414141
(gdb) x/48x ($esp-2800)
0xbffffdd60: 0xbffffef93 0xbffffe7d0 0xbffffe848 0x4002463f
0xbffffdd70: 0x00000003 0xbffffef93 0xbffffe7d0 0x00000000
0xbffffdd80: 0x00000000 0x00000000 0x00000000 0x00000000
0xbffffdd90: 0x00000000 0x00000000 0x00000000 0xbffffef93
0xbffffdda0: 0x00000000 0x00000000 0x00000000 0x00000000
0xbffffddb0: 0x00000000 0x00000000 0x00000000 0x00000000
0xbffffddc0: 0x00000000 0xbffffddd0 0x00000000 0x00000000
0xbffffddd0: 0x41414141 0x41414141 0x41414141 0x41414141
0xbffffdde0: 0x41414141 0x41414141 0x41414141 0x41414141
0xbffffddf0: 0x41414141 0x41414141 0x41414141 0x41414141
0xbffffde00: 0x41414141 0x41414141 0x41414141 0x41414141
0xbffffde10: 0x41414141 0x41414141 0x41414141 0x41414141
```

# HACKING

THE ART OF EXPLOITATION

# Conclusion:

- In the proceeding sections we saw the methodology of hacking, why should we aware of hacking and some tools which a hacker may use.
- Now we can see what we can do against hacking the first thing we should is to keep ourselves updated about those software's we and using for official and reliable sources . Educated the employees and the users against black hat hacking

