

Why Organizations Hire Ethical Hacker?

Organizations hire ethical hackers to:

- **Identify vulnerabilities before attackers**
- **Test real-world attack scenarios**
- Improve:

Network security

Application security

Cloud security

- Meet **compliance requirements**

ISO 27001

PCI-DSS

- Reduce:

Financial loss

Reputation damage

- Real-world reason:

It is cheaper to fix a vulnerability than to recover from a breach.

Why Advanced Ethical Hacking?

Why Basic Security Is No Longer Enough

Earlier security focused on:

- Antivirus
- Firewalls
- Password protection

Today's attackers **bypass these easily**.

How Modern Attackers Operate?

Attackers no longer perform single-step attacks.

They use **advanced methods**, such as:

Multi-stage attacks: Attack happens in phases

(entry → privilege escalation → data theft)

Automation: Tools automatically scan and exploit thousands of systems

Stealth techniques

Attacks stay hidden for days or months

Avoid detection by antivirus and IDS

Why Antivirus & Firewalls are not enough?

Antivirus:

Works on known signatures

Fails against new or fileless malware

Firewalls:

Control traffic

Cannot detect attacks using valid credentials

Many attacks look like **normal user activity**.