ETHICAL HACKING MASTERY

The Complete Beginner to Advanced Guide to
Cyber Security & Ethical Hacking



WRITTEN BY

SUMAN BISWAS

Networking | Linux | Web Security | Cryptography | Cloud | Defence

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Ethical Hacking Mastery

The Complete Beginner to Advanced Guide to Cyber Security & Ethical Hacking

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About this book

Master ethical hacking and cyber security with this comprehensive illustrated guide by Suman Biswas. Learn networking, Linux, cryptography, web security, cloud security, and defensive security through safe, legal, and practical lessons.

Topics: ethical hacking for beginners, cyber security guide, network security, Linux for security, web security, information security, cyber defense.

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Legal Disclaimer

WARNING

This book is intended solely for educational, defensive cybersecurity, and security awareness purposes. Readers should only perform security testing on systems they own or have explicit written authorization to assess. The author, Suman Biswas, and amazebazaar.com do not endorse or encourage unauthorized access, malicious activities, or any unlawful use of the information presented. Always comply with applicable laws, regulations, and ethical standards in your jurisdiction.

The three rules of this book

Rule	What it means
1. Permission first	Test only what you own or are authorised in writing to assess
2. Defence is the goal	Every topic is taught so you can prevent, detect and fix
3. Report responsibly	Share findings privately with the owner, never publicly first

This book contains no malware, exploit code or attack instructions. Vulnerabilities are explained conceptually so that you can recognise and prevent them.

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How to Use This Book

The book is organised into 16 parts and 125 short chapters, followed by ten bonus chapters, a glossary and an index. Read it in order if you are new; each part builds on the last. Every part ends with key takeaways, a quick quiz and a practice exercise.

This is an interactive PDF. Use the bookmarks panel of your reader, click any entry in the table of contents or any blue chapter reference to jump there, and click the website address in the footer of any page to visit amazebazaar.com.

What the boxes mean



TIP
A shortcut, memory aid or helpful habit.



WARNING
A legal, safety or security risk to take seriously.



BEST PRACTICE
What experienced professionals do by default.



REAL-WORLD CASE STUDY: EXAMPLE
A real incident or realistic scenario and the lesson it teaches.



KEY TAKEAWAYS
The few points to remember from each part.



PRACTICE EXERCISE
A safe, legal task to try on systems you own.

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PART 01

Introduction

Before touching a single tool, you need the mindset: what ethical hacking is, who the players are, and the legal and moral lines that separate a security professional from a criminal.

IN THIS PART

1 What is Ethical Hacking 10

2 Types of Hackers 10

3 White Hat vs Black Hat vs Grey Hat 11

4 CIA Triad 11

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1 What is Ethical Hacking

Ethical hacking is the authorised practice of examining computers, networks and applications for weaknesses so that they can be fixed before someone with bad intentions finds them. The skills overlap with those of an attacker; the difference is **permission, purpose and reporting**. An ethical hacker works under a written agreement, stays inside an agreed scope, and hands every finding back to the owner.

Think of it as hiring a locksmith to test the locks on your own house. The locksmith may pick a lock, but only because you asked, only on your doors, and only to tell you which ones need replacing.

- **Permission:** written authorisation from the system owner, always.
- **Scope:** a clear list of what may and may not be tested.
- **Purpose:** to reduce risk, never to cause harm or gain.
- **Reporting:** findings go to the owner with advice on fixing them.



WARNING

Testing a system without written permission is illegal in almost every country, even if you "only wanted to help". Curiosity is not a legal defence.

2 Types of Hackers

The word "hacker" originally described a clever, curious programmer. Today it covers a wide range of people with very different motives. Understanding those motives helps defenders predict what an adversary is likely to want.

Type	Motivation	Typical behaviour
White hat	Protect systems	Authorised testing, reporting, fixing
Black hat	Money, power, damage	Unauthorised intrusion and theft
Grey hat	Curiosity, recognition	Tests without permission, may disclose
Hacktivist	Political or social cause	Defacement, leaks, disruption
Script kiddie	Thrill, status	Runs tools written by others
Insider	Grievance or profit	Abuses legitimate access
State-sponsored	Espionage, strategy	Patient, well-funded campaigns



TIP

When you assess a system, ask "who would want this, and why?" A school website and a payment gateway attract very different adversaries.

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