

# Ethical Hacking Roadmap

## Cybersecurity & Ethical Hacking Roadmap

This roadmap will guide you from **beginner** to **professional** in cybersecurity and ethical hacking. 🚀

### Beginner Level - Foundations

At this stage, focus on learning **networking, Linux, cybersecurity basics, and scripting**. Understanding the fundamentals is crucial before moving on to hacking techniques.

#### Websites & Platforms

- [TryHackMe](#) 🚩 - Interactive cybersecurity challenges.
- [OverTheWire](#) 💻 - Learn Linux and security through war games.
- [Cybrary](#) 📖 - Free and paid cybersecurity courses.
- [Udemy](#) 🎓 - Various cybersecurity courses for beginners.
- [TCM Academy](#) 🎯 - Courses by The Cyber Mentor.
- [Cisco Networking Academy](#) 🌐 - Learn networking fundamentals.
- [Blue Team Labs](#) 🛡️ - Defensive cybersecurity exercises.

#### YouTube Channels

- 📢 **NetworkChuck** - Networking, Linux, and ethical hacking.
- 🖱️ **David Bombal** - Networking fundamentals and security basics.
- 🚩 **The Cyber Mentor** - Penetration testing & ethical hacking.
- 🗝️ **IppSec** - Walkthroughs of Hack The Box challenges.
- 🦊 **John Hammond** - CTFs, malware analysis, and cybersecurity tricks.
- 🛠️ **Computerphile** - Concepts in computer security.







#### Essential Topics to Learn

- 📢 **Networking** - OSI Model, TCP/IP, DNS, HTTP(S), VPNs, Proxies.
- 🏠 **Linux & Bash** - File system, user management, permissions, scripting.
- 🏰 **Windows Basics** - Registry, PowerShell, Group Policies, Active Directory.
- 💻 **Programming & Scripting** - Python, Bash scripting.
- 🗝️ **Cybersecurity Basics** - Encryption, hashing, firewalls, VPNs.
- 🌐 **Web Security** - SQL Injection, XSS, CSRF, OWASP Top 10.




### Intermediate Level - Web Security & Exploitation

At this stage, start focusing on **web application security, scripting, and penetration testing**.






## Websites & Platforms

- [Hack The Box](#)  - Advanced penetration testing labs.
- [PortSwigger Academy](#)  - Learn web security & Burp Suite.
- [PentesterLab](#)  - Practical web security exercises.
- [Bugcrowd University](#)  - Learn bug bounty skills.
- [HackerOne](#)  - Bug bounty platform.
- [Web Security Academy](#)  - Learn OWASP top 10 & Burp Suite.

## YouTube Channels

-  **STÖK** - Bug bounty hunting & web security.
-  **LiveOverflow** - Exploit development and security research.
-  **NahamSec** - Web application security & bug bounty.






## Intermediate Topics to Learn

-  **Penetration Testing** - Kali Linux, Metasploit, enumeration, privilege escalation.
-  **Web Security** - SQL Injection, XSS, CSRF, LFI, RFI.
-  **Active Directory (AD) Hacking** - Kerberos, BloodHound, Pass-the-Hash.
-  **OSINT (Open Source Intelligence)** - Information gathering.
-  **Tools to Master** - Nmap, Wireshark, Burp Suite, Gobuster, Hydra, John the Ripper.



## Advanced Level - Red Teaming & Exploit Development

At this level, focus on **red teaming, exploit development, and malware analysis**.

## Websites & Platforms





- [Exploit Database](#)  - Exploit collection.
- [CTFtime](#)  - Capture The Flag competitions.
- [Flare-On](#)  - Reverse engineering & malware analysis.
- [Red Team Ops](#)  - Advanced penetration testing.
- [MalwareTech Blog](#)  - Malware analysis resources.

## YouTube Channels




-  **Seytonic** - Cybersecurity & hacking news.
-  **HackerSploit** - Red teaming & exploit development.

-  **Security Researcher LiveOverflow** - Advanced hacking concepts.

## **Advanced Topics to Learn**

-  **Red Teaming** - Lateral movement, evasion techniques.
-  **Exploit Development** - Buffer overflows, ROP chains.
-  **Malware Analysis** - Reverse engineering, rootkits.
-  **Post-Exploitation Techniques** - Persistence, privilege escalation.

## **Recommended Certifications**

-  **Beginner:** CompTIA Security+  - Cybersecurity basics.
-  **Intermediate:** CEH (Certified Ethical Hacker)  - Penetration testing.
-  **Advanced:** OSCP (Offensive Security Certified Professional)  - Hands-on exploitation.

## **Additional Resources**

### **Podcasts & Blogs**

- **Darknet Diaries**  - Real-world hacking stories.
- **Malwarebytes Blog**  - Cybersecurity research.
- **Red Team Blog by SpecterOps**  - Red teaming tactics.

### **Best Books**

- **The Web Application Hacker's Handbook**  - Web security techniques.
- **The Art of Exploitation**  - Exploit development.