

Step-by-Step Roadmap to Become an Ethical Hacker (With Resources)

Phase 1: Linux & Networking Basics (1-2 Months)

Goal: Master the Linux command line and networking concepts to understand how systems communicate.

Step 1: Learn Linux Command Line (1-2 Weeks)

Resources to Learn:

- Linux Command Line Basics - freeCodeCamp: <https://www.freecodecamp.org/news/the-linux-command-line/>
- Linux Basics for Hackers (YouTube): <https://www.youtube.com/watch?v=IVquJh3DXUA>
- Linux Survival (Interactive Practice): <https://linuxsurvival.com/>

Where to Practice:

- Install Kali Linux (or use VirtualBox)
- Practice commands daily in Kali Linux Terminal

Step 2: Learn Networking Basics (2-3 Weeks)

Resources to Learn:

- Computer Networking Basics (Cisco): <https://www.netacad.com/courses/intro-cybersecurity>
- Networking Fundamentals (YouTube): <https://www.youtube.com/watch?v=qiQR5rTSshw>
- Packet Tracer (Simulate Networks): <https://www.netacad.com/courses/packet-tracer>

Where to Practice:

- Use Wireshark to analyze packets
- Practice with Ping, Traceroute, Netstat, Ifconfig commands

Phase 2: Scripting & Programming (1-2 Months)

Goal: Learn automation and basic programming to understand how hacking tools work.

Step 3: Learn Bash & Python Scripting (2-3 Weeks)

Resources to Learn:

- Bash Scripting Tutorial: <https://linuxconfig.org/bash-scripting-tutorial-for-beginners>
- Python for Hackers (YouTube): <https://www.youtube.com/watch?v=RWKyDvhX4BM>
- Python Crash Course: <https://www.w3schools.com/python/>

Where to Practice:

- Write Bash scripts to automate tasks
- Create a simple port scanner in Python using the socket library

Step 4: Learn Web Technologies (2-3 Weeks)

Resources to Learn:

- HTML, JavaScript, and PHP Basics: <https://www.w3schools.com/>
- SQL for Hackers (YouTube): <https://www.youtube.com/watch?v=HXV3zeQKqGY>
- SQL Injection Labs: <https://www.hackthebox.com/>

Where to Practice:

- Use XAMPP to create a local web server
- Practice SQL injections on Damn Vulnerable Web App (DVWA)

More phases continue in the full document.