

Ethical Hacking Full Roadmap

Skills Required:

- **Basic IT Skills:** Networking, Linux & Windows OS, programming (Python, Bash).
- **Security Fundamentals:** Firewalls, VPNs, proxies, IDS/IPS systems.
- **Ethical Hacking Tools:** Metasploit, Nmap, Wireshark, Burp Suite.
- **Scripting and Automation:** Python, Bash scripting.
- **Web Application Security:** OWASP Top 10, SQL injection, XSS, CSRF.
- **Networking and Protocols:** TCP/IP, DNS, HTTP/S.
- **Certifications:** CEH, OSCP, CISSP.

Project Ideas:

- Vulnerable Machine Lab
- Capture the Flag (CTF) Challenges
- Web Application Pen Testing
- Network Pen Testing
- Secure Code Review
- Mobile App Pen Testing
- IoT Device Security Testing
- Cloud Security Assessment

Jobs you can Apply if you Learn Ethical Hacking:

- Penetration Tester
- Security Analyst
- Vulnerability Assessor
- Security Consultant
- Incident Responder
- SOC (Security Operations Center) Analyst
- Network Security Engineer
- Cybersecurity Auditor

Average Package of Ethical Hacking in India:

- **Entry-Level:** ₹4,00,000 - ₹6,00,000 annually
- **Mid-Level:** ₹6,00,000 - ₹12,00,000 annually
- **Senior-Level:** ₹12,00,000 - ₹20,00,000+ annually

Companies to Apply:

- Tata Consultancy Services (TCS)
- Infosys
- Wipro
- HCL Technologies
- Cognizant
- IBM India
- Capgemini
- Accenture
- CyberArk
- Rapid7

Free Resources and Courses Link:

COURSERA: <https://www.coursera.org/specializations/intro-cyber-security>

EDX: <https://www.edx.org/learn/cybersecurity/ibm-cybersecurity-basics>

OWASP: <https://owasp.org/www-project-juice-shop/>

SANS: <https://www.sans.org/cyberaces/>

CYBRARY: <https://www.cybrary.it/course/introduction-to-it-and-cybersecurity>

THANK YOU AND HAPPY LEARNING

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