[**Penetration testing**, also known as **pen testing**, is a simulated cyber attack against a computer system to identify and exploit vulnerabilities that attackers could potentially use](https://www.freecodecamp.org/news/full-penetration-testing-course/) [1](https://www.freecodecamp.org/news/full-penetration-testing-course/)[2](https://digitaldefynd.com/best-penetration-testing-courses/). It involves ethical hackers attempting to breach the system’s defenses to discover weak points that need patching.

Here are **five free resources** where you can learn more about penetration testing:

1. [**Full Penetration Testing Course on freeCodeCamp.org**](https://www.freecodecamp.org/news/full-penetration-testing-course/): This comprehensive 15-hour video course covers network penetration testing, ethical hacking, and practical skills necessary for the field [1](https://www.freecodecamp.org/news/full-penetration-testing-course/).
2. [**Penetration Testing and Vulnerability Analysis (NYU Tandon School of Engineering)**](https://digitaldefynd.com/best-penetration-testing-courses/): A course that delves into vulnerability analysis and penetration testing [2](https://digitaldefynd.com/best-penetration-testing-courses/).
3. [**Hacking Web Applications and Penetration Testing: Fast Track (Udemy)**](https://www.coursera.org/courses?query=pen%20testing): Learn about web application security and penetration testing [3](https://www.coursera.org/courses?query=pen%20testing).
4. [**Ethical Hacking Essentials (EHE) on Coursera**](https://www.coursera.org/courses?query=penetration%20testing): Explore the essentials of ethical hacking and penetration testing [4](https://www.edx.org/learn/penetration-testing).
5. [**Learn Penetration Testing on edX**](https://www.edx.org/learn/penetration-testing): Discover penetration testing through online courses delivered by edX [5](https://www.cloudflare.com/learning/security/glossary/what-is-penetration-testing/).

Feel free to explore these resources to enhance your knowledge in penetration testing! 🛡️🔍