Abstract

It is a well-known fact that it is important and vital to the business to ensure data security. A business can have important information about its clients and customers, its vendors and the sales information which when put in wrong hands can be fatal not only for the business organization but also its various stakeholders. A penetration test, also known as a pen test, is a simulated cyberattack against any computer system to check for exploitable vulnerabilities. In the context of web application security, penetration testing makes a web application firewall more reliable and robust. Penetration testing tools are a part of a penetration test (Pen Test) to automate certain tasks, improve testing efficiency and discover issues that might be difficult to find using manual analysis techniques alone. There are various penetration testing tools available in the market that organizations use as per their requirement. This paper focuses on various attacks that are possible on a web application and comparison of various penetration tools to find best tools for penetration testing.

References
1. Pentesting on Web Applications using Ethical Hacking- Rina Elizabeth Lopez de Jimenez, Escuela de Computacion, Itca-Fepade, Santa Tecla, El Salvador
22. Crawl coverage and vulnerability detection - Arachni - Web Application Security Scanner


**Index Terms**

Computer Science  
Software Engineering

**Keywords**

Penetration test, web scanner, SQL injection, web vulnerabilities.