

Teaching Web Security with Labs Using Google Hacking Technology

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This presentation introduces two sets of labs designed in a Web Security course. The first set of labs demonstrates and to explores the possible vulnerabilities and security threats existed in the web site and its development. Students will conduct the penetration testing/ethical hacking against web sites using Google Hacking Technology. Another set of labs will have students to fix the security issues revealed in the first set by patching, redesigning, restructuring, re-configuring or re-coding the system. Through these two sets of labs we expect students build solid security awareness and learn the knowledge on how Google Hacking Technology work, how to utilize the Google Hacking Database and how to explore and analysis the vulnerability of a web. More important, Student should understand the security web design and know how to defense the certain types of hacking. Pre and post survey to ensure the quality of teaching will be deploy before and after students conduct the labs.

Keyword: google hacking technology, web security, lab.