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Secure framework for developing and executing exploits against vulnerable systems

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Abstract

This bachelor thesis explore the use of metasploit to exploit the virtual machine Metasploitable. The Metasploit Framework has long been one of the tools most widely used by information security pro-fessionals. Metasploit Framework, the Metasploit is known creation of a software platform for developing, testing, and executing exploits. It can be used to create security testing tools and exploit modules and also as a penetration testing system. The Metasploit Framework contains a suite of tools that you can use to test security vulnerabilities, enumerate networks, execute attacks, and evade detection. Here we used different types of scanning, by doing this scanning we see some open ports. By using those ports we know about the vulnerabilities. Using vulnerabilities we can exploit the virtual machine Metasploitable. The success of this test is evaluated afterwards. It is exceptionally adaptable, effective and efficient for the Pentesters. we know pentesting is a challenging job in this world, it has no bounds. It has numerous quantities of modules which helps a great deal for the Pentesting. It is hoped that the reader will not only be able to come away with an awareness of the power of the framework, but also be able to make the tools work for them in their own environments.