

## **ABSTRACT**

This topic encloses the information regarding “**Information Security**”. The topic clearly describes one of the security vulnerability testing i.e. penetration testing with the help of the **Metasploit** tool. This tool allows the users to find strength of the security of the network they are using apart from the system security.

The process of performing a penetration test is to verify that networks and systems are not vulnerable to a security risk that could allow unauthorized access to resources. This paper will review the steps involved in preparing for and performing a penetration test. The intended audience for this paper is project directors or managers who might be considering having a penetration test performed. The process of performing a penetration test is complex. Each company must determine if the process is appropriate for them or not. It is one of the most powerful tool, the users can use to find the strength of their network and the websites vulnerability risks.

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