DESIGN OF WEB APPLICATION HONEYPOT FOR INFORMATION GATHERING

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Abstract

The rapid growth of the Internet and popular usage of web applications have caused web applications become primary target for hackers. Some vulnerabilities that takes an unvalidated and unsanitized user input can be exploited with some attacks like Cross-Site Scripting and SQL Injection. In order to study and learn about pattern and behaviour of the attacker, a system called honeypot is created.

Honeypot is a system that acts as a decoy or bait to lure the attacker. Honeypot can be used as a production purpose or research purpose, because not only it can act as a decoy, but also it has the ability to gather data from the attacker.

In this thesis, the writer propose design of a low-interaction honeypot system that emulates a vulnerability which can be exploited using SQL Injection and Cross-Site Scripting attacks. In addition, the honeypot proposed can be used to gather information about the attacker identity using JavaScript execution on attacker’s web browser and LikeJacking technique.

Keywords: Web Application Honeypot, Cross-Site Scripting, JavaScript, and SQL Injection