DESIGN AND DEVELOPMENT OF LOW-INTERACTION HONEYPOT SYSTEM ON CASE STUDY RASPBERRY PI WEB SERVER

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Abstract

Technology has developing in a rapid way, especialy in web application that widely used for commercial, social, and personal purpose, consequently web application security also developing in the same speed as the web application technology. For every attack on computer that use internet, web application is the main target of attack, of course this would harm the owner of the website that being attacked, especialy the web site that used for commercial purpose, therefore security for web application has to paid attention seriously.

To be able securing web application from possible attack that could happen firstly we have to getting know with the method used by the attacker so that we could which vulnerability that used by the attacker to penetrat the system, that’s why implementing honeypot is necessary to getting the method that used by hacker nowadays so we could develop security patch and countermeasure from attack, to obtain various data to be studied the number of honeypot will be affect to the data, but using more server computer will be inconvenience in installation and less budget friendly, that’s why using Raspberry Pi will easier.

This Final Project proposes implementation of honeypot that is run in Raspberry Pi that emulates RFI and LFI with capability to write log to a database so it will be easier to read and
learn thus enabling to patch the vulnerability logged in this honeypot.

Keywords: Honeypot, LFI, Raspberry Pi, RFI