A honeypot used as a security awareness tool How to use honeypot to inform your users...

Alexandre Dulaunoy

ASBL CSRRT-LU (Computer Security Research and Response Team Luxembourg)
http://www.csrrt.org/

9th February 2007

Introduction

- ► A large number of public/semi-public hotspot are installed in companies, libraries or alike. They generally provide an unlimited access to Internet with "very" limited security.
- Users are often very happy to find a hotspot and they used without thinking about security. (They often don't read the paper included with the Hotspot regarding security)
- ► The idea is to build a Honeypot on such hotspot to inform users on the weak security of some protocols.

POP3 as an example

- ▶ POP3 is described in the RFC1939
- ...and you can see that the security was not really considered

13. Security Considerations

. . .

Use of the PASS command sends passwords in the clear over the network.

. . .

Use of the RETR and TOP commands sends mail in the clear over the network.

Otherwise, security issues are not discussed in this memo.

Security Awareness?

- ► Gathering potential attackers is interesting but it's not the only use of honeypot.
- ▶ Informing the user about the weak security there are relying on. But how ?
- ► We will send an email directly in their mailbox. We'll do a kind of Man-in-the-middle attack in POP3.

How to proceed?

- ▶ We assume that we redirect all TCP traffic to port 110 on a specific service
- ▶ Building a fake POP3 server
 - Integrating a script with honeyd ?
 - Building a custom POP3 Server (Net::Server)
 - Using and Extending existing POP3 honeypot

Q and A

- ► Thanks for listening.
- ▶ adulau@foo.be