

BARRACUDALABS

Searching for Malware: A Review of Attackers' Use of Search Engines to Lure Victims

Paul Judge David Maynor

The Problem



Sites like Twitter, Yahoo!, Bing and Google all have some form of popular/trending search terms.



These terms can be co-opted by markets and malware authors to point to their own wares.



The sites can be used for spam, drive-by malware installs and phishing.



DEMO:

Examples of current terms and sites that have fallen prey to SEO poisoning.



How They Do It



A brief overview and example of previous term hijacking techniques.



Current ways to find the terms.



Flooding Web sites and social networks with specific terms and links.



And...We have malware!



DEMO: A successful SEO poison.



How It's Detected



Lists, Lists and more lists



White Lists Black Lists SPAM Lists Vendor Proprietary Databases



These don't always wor



Average time between infection and a URL showing up on a list could be days at best, weeks at worst.



DEMO: List lag



Code analysis (All these sites have something in common; they are trying to hide their true intention.)



Code analysis of the Webpage including any JavaScript found can reliable detect a "suspicious" site



DEMO: JavaScript analysis of a bad site



Correlation How to tie this all together



Gaps in coverage: How can the bad guys still slip through?



Future of Search Engine Malware



Attacker Countermeasures



Better Obfuscation

Using botnets and social networks to create an instant credible account



More targeted attacks: spear phishing for SEO poisoning



How Search Engines should respond – interactive discussion



THANK YOU! http://www.barracudalabs.com/

