

# "Malicious" Technologies

April 2015, CENSUS S.A. Infocom Security

www.census-labs.com

#### > AGENDA

- I. Intro
- II. Source Code Auditing
- III. Vulnerability Research/Bug Hunting
- IV. Packing/Crypting



• "Malicious" Technologies?



• Inexistent "Malicious" Technologies?



• Bugs

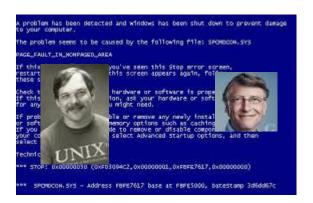














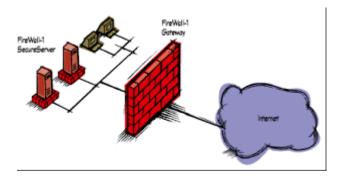
• Solution?







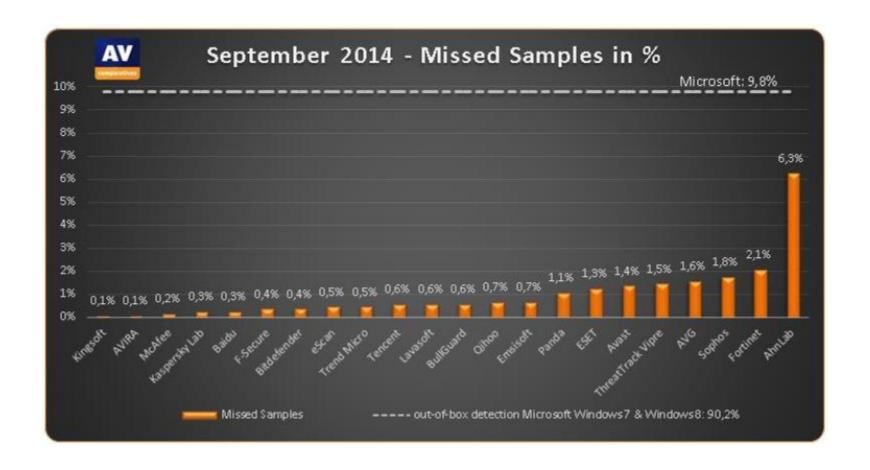






Cisco IOS Software and IOS XE Software TCP Packet Memory Leak Vulnerability Updated	1.1	2015 March 25 16:00 GMT	2015 March 25 21:32 GMT	AMB BLG ERP	IS
Multiple Vulnerabilities in Cisco IOS Software and IOS XE Software Autonomic Networking Infrastructure Updated	1.1	2015 March 25 16:00 GMT	2015 March 25 21:21 GMT	BLG ERP	IS
Multiple Vulnerabilities in Cisco IOS Software Common Industrial Protocol New	1.0	2015 March 25 16:00 GMT	2015 March 25 16:00 GMT	IPS AMB BLG ERP	IS
Multiple Vulnerabilities in Cisco IOS XE Software for Cisco ASR 1000 Series, Cisco ISR 4400 Series, and Cisco Cloud Services 1000v Series Routers New	1.0	2015 March 25 16:00 GMT	2015 March 25 16:00 GMT	IPS AMB BLG ERP	IS
SSL Padding Oracle On Downgraded Legacy Encryption (POODLE) Vulnerability Updated	1.17	2014 October 15 18:30 GMT	2015 March 24 17:38 GMT		IS
Cisco Secure Access Control System SQL Injection Vulnerability Updated	2.1	2015 February 11 16:00 GMT	2015 March 19 20:24 GMT		IS
Cisco Intrusion Prevention System MainApp Secure Socket Layer Denial of Service Vulnerability New	1.0	2015 March 11 16:00 GMT	2015 March 11 16:00 GMT		IS
Multiple Vulnerabilities in Cisco TelePresence Video Communication Server, Cisco Expressway, and Cisco TelePresence Conductor New	1.0	2015 March 11 16:00 GMT	2015 March 11 16:00 GMT	AMB	IS
GNU Bash Environment Variable Command Injection Vulnerability	1.28	2014 September 26 01:00 GMT	2015 March 02 19:41 GMT	AMB BLG ERP	IS







## > ATTACKERS













### > SOURCE CODE AUDITING

30, 229, 414, 348 Lines of Code in Open Source Projects

BLACK DUCK | Open HUB



### > BUGS?

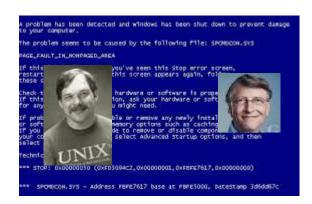














## > BUG HUNTING/EXPLOITS

DICKSON CARR

Price







## > PACKING/CRYPTING







Hidden Sight Crypter





### > PACKING/CRYPTING



All antivirus analyses finished, running detailed file characterization processes.

SHA256: 765ce1fee70e450a5c1e4fed61fdfbc56b25088077e1dabe217d9497b521d060

File name: w1.exe

Detection ratio: 16 / 57

Analysis date: 2015-03-31 19:50:39 UTC ( 0 minutes ago )

ZEUS Crypter - 2.2





### > USE

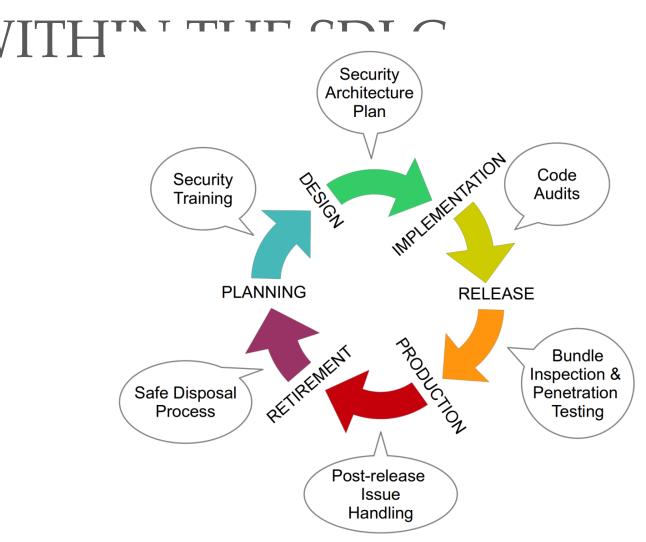
- 3 Vulnerability Fighting Cases
- Large Public Organization/MDM Solution Installation

• Organization with proper Source Code Audit/SSDLC Process

• SSDLC Implementation on Development House



## > SECURITY CONSULTING





Thank you!

