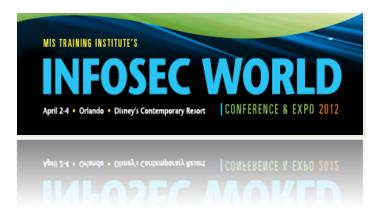


Pulp Google Hacking

The Next Generation Search Engine Hacking Arsenal 02 April 2012 – InfoSec World 2012 – Orlando, FL



Presented by: Francis Brown & Rob Ragan Stach & Liu, LLC www.stachliu.com



Agenda

- Introduction/Background
- Advanced Attacks
 - Google/Bing Hacking Core Tools
 - NEW Diggity Attack Tools
- Advanced Defenses
 - Google/Bing Hacking Alert RSS Feeds
 - NEW Diggity Alert Feeds and Updates
 - NEW Diggity Alert RSS Feed Client Tools
- Future Directions



Introduction/ Background GETTING UP TO SPEED



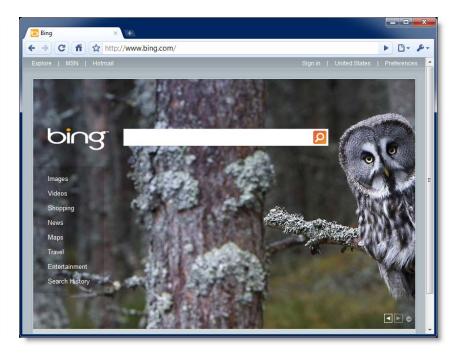
Open Source Intelligence SEARCHING PUBLIC SOURCES

OSINT – is a form of intelligence collection management that involves finding, selecting, and acquiring information from *publicly available* sources and analyzing it to *produce actionable intelligence*.



Google/Bing Hacking SEARCH ENGINE ATTACKS

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	Google	2
	Google Search I'm Feeling Lucky	Advanced Search Language Tools
	Advertising Programs Business Solutions Al ⊚2010 - Privacy	bout Google
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Attack Targets GOOGLE HACKING DATABASE



- Advisories and Vulnerabilities (215)
- Error Messages (58)
- Files containing juicy info (230)
- Files containing passwords (135)
- Files containing usernames (15)
- Footholds (21)
- Pages containing login portals (232)

- Pages containing network or vulnerability data (59)
- Sensitive Directories (61)
- Sensitive Online Shopping Info (9)
- Various Online Devices (201)
- Vulnerable Files (57)
- Vulnerable Servers (48)
- Web Server Detection (72)



Google Hacking = Lulz REAL WORLD THREAT

LulzSec and Anonymous believed to use Google Hacking as a primary means of identifying vulnerable targets.

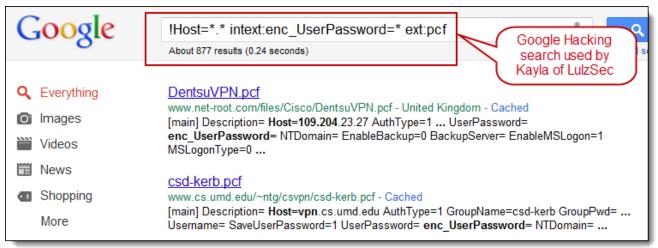
Their releases have nothing to do with their goals or their lulz. It's purely based on whatever they find with their "google hacking" queries and then release it.

- A-Team, 28 June 2011

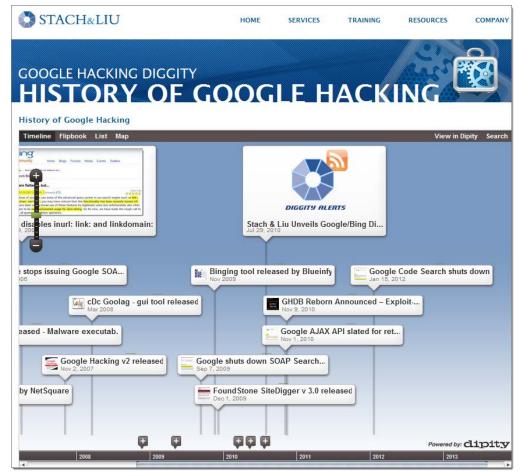


Google Hacking = Lulz REAL WORLD THREAT

22:14 <@kayla> Sooooo...using the link above and the google hack string. !Host= *. * intext:enc_UserPassword= * ext:pcf Take your pick of VPNs you want access too. Ugghh.. Aaron Barr CEO HBGary Federal Inc. 22:15 <@kayla> download the pcf file 22:16 <@kayla> then use http://www.unix-ag.unikl.de/~massar/bin/cisco-decode?enc= to clear text it 22:16 <@kayla> = free VPN



Quick History GOOGLE HACKING RECAP







Advanced Attacks

WHAT YOU SHOULD KNOW



Diggity Core Tools STACH & LIU TOOLS

- Google Diggity
 - Uses Google JSON/ATOM API
 - Not blocked by Google bot detection
 - Does not violate Terms of Service
 - Required to use Google custom search

Bing Diggity

- Uses Bing 2.0 SOAP API
- Company/Webapp Profiling
 - Enumerate: URLs, IP-to-virtual hosts, etc.
- Bing Hacking Database (BHDB)
 - Vulnerability search queries in Bing format







New Features DIGGITY CORE TOOLS

Google Diggity - New API

Updated to use Google JSON/ATOM API

Google code labs e.g. "adwords" or "open source"

JSON/Atom Custom Search API (Labs)

• Due to deprecated Google AJAX API

Misc. Feature Uprades

- Auto-update for dictionaries
- Output export formats
 - Now also XLS and HTML
- Help File chm file added

File name:		
Save as type:	Excel Workbook (*.xlsx)	
Hide Folders	Excel Workbook (*.xlsx) Excel 97-2003 Workbook (*.xls) Text File (*.txt) Web Page (*.html) All Files (*.*)	K

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New Features DOWNLOAD BUTTON

Download Buttons for Google/Bing Diggity

- Download actual files from Google/Bing search results
 - Downloads to default: C:\DiggityDownloads\

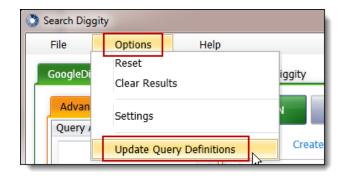


- Used by other tools for file download/analysis:
 - FlashDiggity, DLP Diggity, MalwareDiggity,...



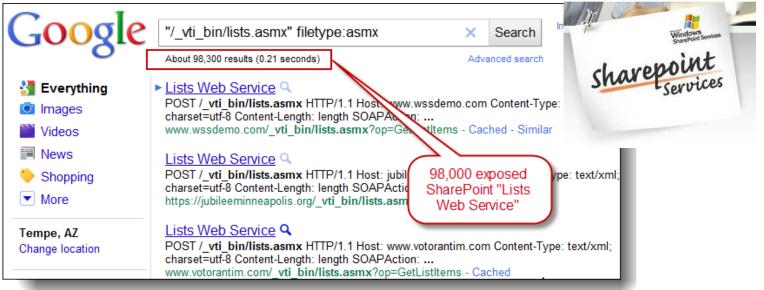


New Features



SLDB Updates in Progress

- Example: SharePoint Google Dictionary
 - http://www.stachliu.com/resources/tools/sharepoint-hacking-diggityproject/#SharePoint – GoogleDiggity Dictionary File



STACH&LIU

New Features IP ADDRESS RANGES

GoogleDiggity can now search for IP Address Ranges

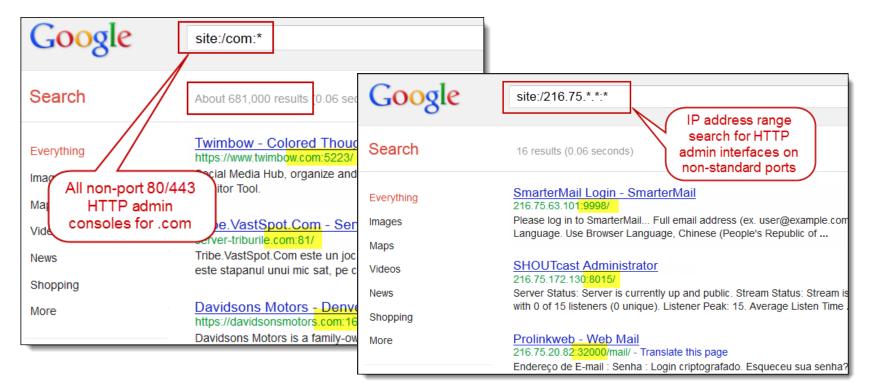


STACH&LIU



New Features TARGETING HTTP ADMIN CONSOLES

Searching for web admin interfaces on non-standard HTTP ports





Google Diggity DIGGITY CORE TOOLS

Search Diggity		
File Options Help		_
GoogleDiggity CodeSearchDiggity	BingDiggity LinkFromDomainDiggity DLPDiggity FlashDiggity MalwareDiggity	
Advanced Simple Query Appender	SCAN Cancel Download Sites/Domains API Key: Create stachliu.com [Remove]	Add
•	Google Custom Search ID: Create	
Queries	I Hide Clear	
 FSDB GHDB Advisories and Vi Error Messages Files containing ji Files containing u Foltbolds Misc Pages containing Sensitive Directoi Sensitive Online t 	Category Subcategory Search String Page Title URL Custom Custom site:stachliu.com Stach & Liu http://www.stachliu.com/ Custom Custom site:stachliu.com Services « Stach http://www.stachliu.com/services/ Custom Custom site:stachliu.com Resources « Stach http://www.stachliu.com/resources/ Custom Custom site:stachliu.com Company « Sta http://www.stachliu.com/company/ Image: Custom Site:stachliu.com Company « Sta http://www.stachliu.com/company/ Image: Custom Site:stachliu.com Company « Sta http://www.stachliu.com/company/ Image: Custom Selected Result Simple Scan started. [8/3/2011 3:39:44 AM] GoogleDiggi Found 45 result(s). Total Results: 45. Scan Complete. [8/3/2011 3:39:54 AM] GoogleDiggi	http://w http://w http://w http://w
Google Status: Ready	Download Progress: Idle Open Folder	



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Bing Diggity DIGGITY CORE TOOLS

Search Diggity	
File Options Help	
GoogleDiggity CodeSearchDiggity	BingDiggity LinkFromDomainDiggity DLPDiggity FlashDiggity MalwareDiggity
GoogleDiggity CodeSearchDiggity Advanced Simple Query Appender Queries Queries BHDB Backup Files Backup Files Configuration Mar Backup Files containing p. Files conta	SCAN Cancel Download Sites/Domains/IPs Add Bing 2.0 API Key: Create Import Import Demonstrating Bing's IP Bing 2.0 API Key: Create Import Demonstrating Bing's IP Category Subcategory Search String Page Title Demonstrating Bing's IP Custom Custom ip:98.129.200.37 Stach & Liu http://www.stachliu.com/ Address reverse lookup feature Custom Custom ip:98.129.200.37 Lord of the Binc http://www.stachliu.com/slides/lordofthebing.pdf Custom Custom ip:98.129.200.37 Lord of the Binc http://www.stachliu.com/slides/lordofthebing.pdf Custom Custom ip:98.129.200.37 Secure Web A F http://www.stachliu.com/resources/tools/google-hacking-diggity-project/ Custom Custom ip:98.129.200.37 Google Hacking http://www.stachliu.com/resources/tools/google-hacking-diggity-project/ Custom Custom ip:98.129.200.37 Google Hacking http://www.stachliu.com/resources/tools/ Custom ip:98.129.200.37 Google Hacking http://www.stachliu.com/resources/tools/ image: tools/google-hacking-diggity-project/ Custom </th
Reported Vulnera	Simple Scan started. [8/29/2011 2:54:40 AM] Found 7 result(s). Total Results: 7. Scan Complete. [8/29/2011 2:54:45 AM]
Bing Status: Ready	Download Progress: Idle Open Folder

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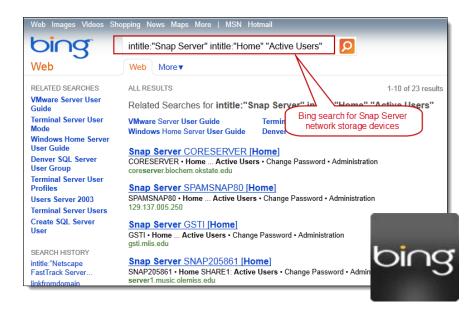
Bing Hacking Database STACH&LIU TOOLS

BHDB – Bing Hacking Data Base

- First ever Bing hacking database
- Bing hacking limitations
 - Disabled inurl:, link: and linkdomain: directives in March 2007
 - No support for **ext**:, **allintitle**:, **allinurl**:
 - Limited filetype: functionality
 - Only 12 extensions supported

Example - Bing vulnerability search:

- GHDB query
 - "allintitle:Netscape FastTrack Server Home Page"
- BHDB version
 - intitle:"Netscape FastTrack Server Home Page"





EVEL DOMAINS ustom search GoogleD	iggity
All Top Level Domains	
Google [™] Custom Search Search	
Search engine details	
All top level domains: http://data.iana.org/TLD/tlds-alpha-by-domain.txt	
searches sites including: *.ZW/*, *.ZM/*, *.ZA/*, *.YT/*, *.YE/*	
Last updated: July 21, 2011	
Add this search engine to your <u>Google homepage</u> : [+ Google] Add this search engine to your blog or webpage »	
Create your own Custom Search Engine »	



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NEW GOOGLE HACKING TOOLS

Code Search Diggity







Google Code Search VULNS IN OPEN SOURCE CODE

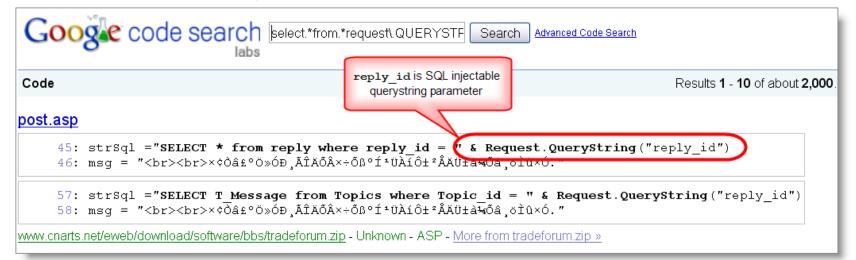
• Regex search for vulnerabilities in indexed public code, including popular open source code repositories:



• Example: SQL Injection in ASP querystring

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• select.*from.*request\.QUERYSTRING



CodeSearch Diggity AMAZON CLOUD SECRET KEYS

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	Advanced	Simple	SCAN	Cancel				
	Query Appen							
		_	Category	Subcatego	Search String	Page Title	URL	
			Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/simond/j៖		
		-	Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/simond/j៖	http://www.google.com/codesearch/p?hl=en#Kcy	!
	Oueries		Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/src/chron	http://w Amazon AWS Cloud n#CQI	
	Quenco		Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/src/chron		
	-	Injection	Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	chrome/content	http://www.googie.com/code	
		s-site Scripting (XS	Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	chrome/content	http://www.google.com/co/ arch/p?hl=en#ulAl	
		ystem Interaction	Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/src/eifaw:		
		lling Sensitive Data -coded Passwords	Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/EC2Samp	http://www.google.con_odesearch/p?hl=en#nfD	
		Mining	Amazon Keys	Amazon	amazon.*[""][A-Z0-9]{20}[""]	lookups.py	http://www.google.c/n/codesearch/p?hl=en#474	
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amazon webservices[™]



Cloud Security NO PROMISES...NONE

Amazon AWS Customer Agreement

http://aws.amazon.com/agreement/#10

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Images Maps Videos	https://dl.dropbox.com/	s//CTMUN_W9_Request_For_TaxID.pdf? ee Acrobat - Quick View site:live.com "skydrive" ext:dmp	Search	4 results (0.13 seconds)
News Shopping More	Search Database dump Microsoft Sky Images		Everything Images Maps Videos	Google Docs files <u>https://docs.google.com/View?docid=0AbKTT11</u> <u>boot-end-marker</u> ! enable secret 5 \$1\$BHsg\$izpAqHDUbLzEWCqfP/leT/. enable password 7 0455254C5F765C ! no aaa new-model. system mtu routing 1500 <u>ncepsi-sw21-01-04-10</u> https://docs.google.com/View?docid=0AbKTT11
	Maps Videos News	https://skydrive.live.com/embedicon.as Open 060510-38688-01.dmp 060510-38 Windows Live SkyDrive https://skydrive.live.com/embedicon/*	News Shopping More	enable secret 5 \$1\$P6du\$.NRbLzz5WiKER5mgw.t7r <mark>. enable password 7</mark> 000A3D4C540C1B ! no aaa new-model. system mtu routing 1500. ip subnet-zero <u>ncepsi-rt06-01-04-10</u> https://docs.google.com/View? docid =0AbKTT11
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Bing LinkFromDomainDiggity

NEW GOOGLE HACKING TOOLS

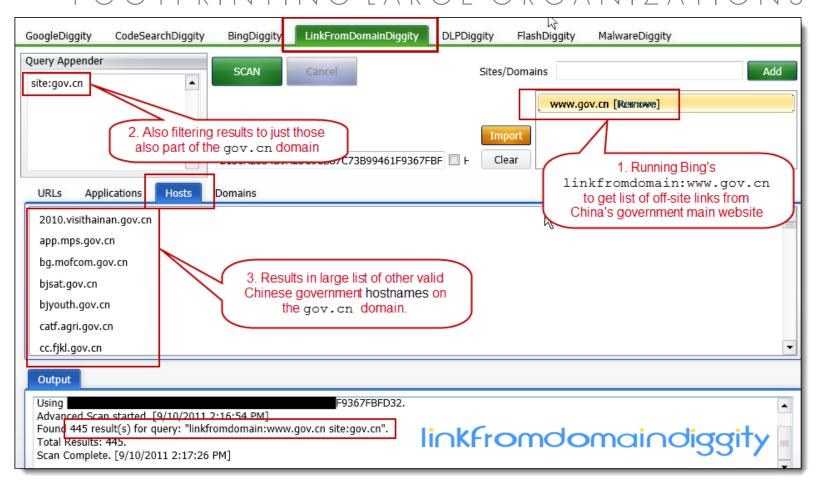
linkfromdomaindiggity

Bing LinkFromDomain DIGGITY TOOLKIT

🔇 Search Diggity
File Options Help
GoogleDiggity BingDiggity LinkFromDomain GoogleCodeSearch
SCAN Cancel Bing 2.0 API Key: Create Domain: 1F9367FBF stachliu.com
URLs Applications Hosts Domains http://hackhat.com/html/bh-us-10/bh-us-10-briefings.html http://hackhat.com/html/bh-us-10/bh-us-10-briefings.html http://hacka_tled.questexevents.net/ opp http://nicroso hbridge.com/Default.aspx http://phoenix.iss tspeakers-presentations/rsvp http://softwr Nresearch/web-application-vulnerability-assessment-essentials-your-first-step-to-a-highly-secure-web-site-4477 Nttp://softwr Bing's linkfromdomain: directive used to find
Output external links on your sites Maximum 20 using Custom Search ID Using Custom Search ID 9367FBFD32. Found 25 result(s) for query: "linkfromdomain:stachliu.com". 9367FBFD32. Total Results: 25. Scan Complete. [4/21/2011 1:01:30 AM]
Google Status: Ready Bing Status: Ready
STACH&LIU

Bing LinkFromDomain FOOTPRINTING LARGE ORGANIZATIONS

STACH&LIU



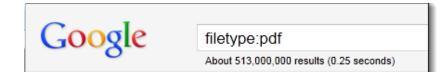


DLP Diggity

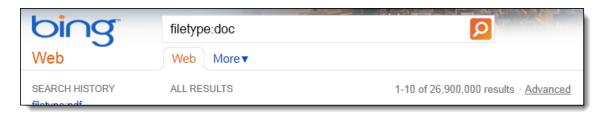
NEW GOOGLE HACKING TOOLS



DLP Diggity LOTS OF FILES TO DATA MINE





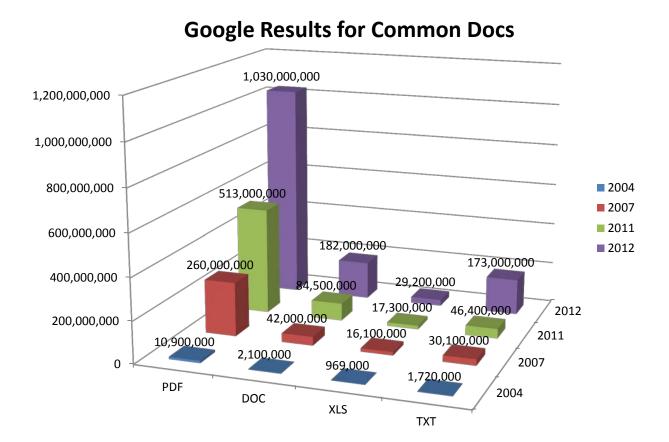






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DLP Diggity More data searchable every year





Data Loss In The News MAJOR DATA LEAKS

- Groupon.com Leaks 300,000 users emails and passwords
 - filetype:sql hotmail gmail password

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Slash	dot ["] Q	Libr	
stories recent popular ask slashdot book reviews	Posted by samzenpus on Wednesd from the good-deal dept.	Groupon's Indian subsidiary was published, unsecured and unencrypted, on the company's site for long enough to indexed	
games	Google	filetype:sql hotmail gmail password	
	Everything Images Videos	CREATE TABLE `phase2_users` (`id` int(11) NOT NULL auto_increment www.sosasta.com/uploaded/user/xyz.sql - India	t

Data Loss In The News MAJOR DATA LEAKS

• Yale Alumni 43,000 SSNs Exposed in Excel Spreadsheet



DLP Diggity DIGGITY TOOLKIT

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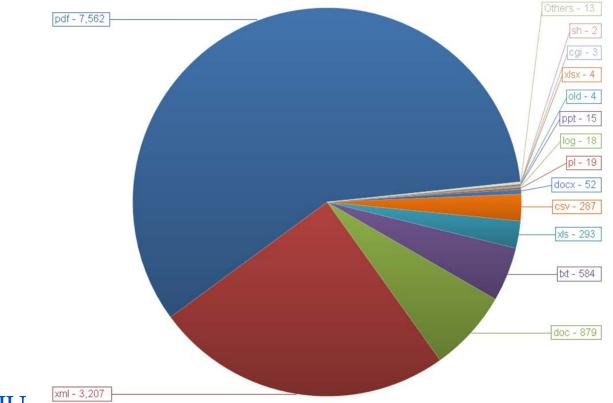
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GoogleDiggity CodeSearchDiggity	BingDiggity	LinkFromDomai	nDiggity	DLPDiggity	FlashDiggity	MalwareDiggity
Advanced Simple Queries CreditCards	SEARCH Scan Directory:	Cancel C:\DiggityDownlo	ads\	Br	owse	
▷ I SSN	Category	Subcategory	Search			File
	SSN	Social Security	[^A-Za-z0-9	_]([0-6]	C:\DiggityDown	loads\PIITutorial.doc
Bank Account Numbers TaxID	SSN	SSN LANL	(ss(n)? socia	al(\s*securi	C:\DiggityDown	loads\PIITutorial.doc
 Patient Records National ID Numbers Tech Data Mining Encryption Related Passwds 			G	oogleDiggit	gh downloade y and BingDig s SSNs, credi	ggity for data
Passwds Various Langu Keywords	•					
	21 Jerry 22 This	is Mary. I forgot to nd adding it in for I				clearance documents I su



DLPDiggity - # of Files Analyzed per File Extension

Total = 12,943 files





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DLP Reporting PRACTICAL EXAMPLES

Automagic Removal Process, DORK, GHDB, XSS.CX, Vulnerability Management, Best Practices

Updated October 8, 2011

Executive Summary

XSS.CX is an automated Anti-Phishing Execution Robot defined as a SCAP Expert System performing Vulnerabil Execution, Risk Analysis and Reporting into the Publi Domain for the public convenience and necessity of securing personally identifying information.

General Information

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The Anti-Phishing Web Crawler publishes Vulnerable Ho reports into the Public Domain which are then indexed Search Engines.

Companies with external facing Vulnerability Manageme Programs then identify the XSS.CX Report, resolving t vulnerability in the normal course of business.







NEW GOOGLE HACKING TOOLS

FlashDiggity

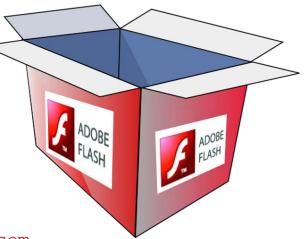


FlashDiggity DIGGITY TOOLKIT

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- Google/Bing for SWF files on target domains
 - Example search: filetype:swf site:example.com
- Download SWF files to C:\DiggityDownloads\
- Disassemble SWF files and analyze for Flash vulnerabilities

Advanced Simple	SEARCH	Cancel		
Queries	Scan Directory:	C:\DiggityDownloads	Bro	wse
ActionScript Source	Category	Subcategory	Search String	
Application Source 4	Keywords	User Account Info	log(i o){1}n(s)?	C:\DiggityDownloads\Flash[9_10_2011 2_42_13 PM
Sensitive Data	Keywords	User Account Info	log(i 0){1}n(s)?	C:\DiggityDownloads\Flash[9_10_2011_2_42_12_PM
PGP Private Key Blo	Keywords	User Account Info	log(i o){1}n(s)?	C:\DiggityDownloads\Flash[9_10_2011 2_42_12 PM
PGP Public Key Bloc		User Account Info		
RSA Private Key Blo	Keywords		log(i o){1}n(s)?	C:\DiggityDownloads\Flash[9_10_2011 2_42_12 PM
Internal IP Disclosu	Keywords	User Account Info	log(i a){1}n(s)?	C-\DiggityDownloads\Flash[9_10_2011_2_42_12_PM
MD5 Hash Detected	Keywords	User Account Info	log(i o){1}n(s)?	C:\DiggityDownloads\Flash[9_10_2011 2_42_12 PM
Possible Credit Card	Keywords	User Account Info	log(i 0){1}n(s)?	C:\DiggityDownloads\Flash[9_10_2011 2_42_12 PM
Possible Server Path				
Possible Server Path				Hardcoded username
Possible Social Secu	Output S	elected Result		and passwords in cleartext in SWF file
SHA-0/SHA-1 Hash	20	if (UserName.text == 'm	izzico' 8.8. PaceWord to	
Keywords	20	•		ico/login.html', _blank);
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Potentially Interestir	23	} else {	0.07	

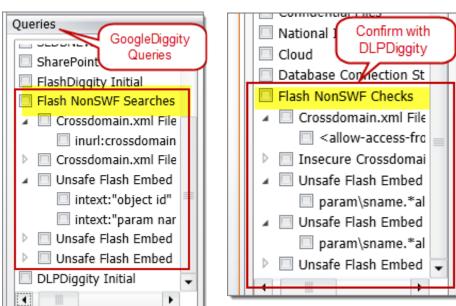


Flash Non-SWF Hacking

- Google/Bing for Non-SWF files on target domains, but related to Flash. Example queries:
 - inurl:crossdomain.xml ext:xml intext:"secure" intext:"false"
 - intext:"swf" intext:"param name" intext:"allowNetworking * all"
- Download Non-SWF files to C:\DiggityDownloads\
- Use DLPDiggity to **analyze** for non-SWF Flash vulnerabilities, such as:
 - Crossdomain.xml Insecure Settings
 - Secure flag set to false
 - Open * wildcard used
 - Unsafe Flash HTML Embed Settings:
 - AllowScriptAccess always
 - AllowNetworking all
 - AllowFullScreen true



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NEW GOOGLE HACKING TOOLS

Malware Diggity

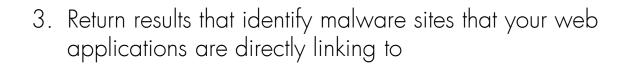


MalwareDiggity DIGGITY TOOLKIT

- 1. Leverages Bing's linkfromdomain: search operator to find off-site links of target applications/domains
- 2. Runs off-site links against Google's Safe Browsing API to determine if any are malware distribution sites

Google code labs e.g. "adwords" or "open source"

Google Safe Browsing API (Labs)











Mass Injection Attacks MALWARE GONE WILD

Malware Distribution Woes – willysy.com - August2011

• Popular websites victimized, become malware distribution sites to their own customers



Mass Injection Attacks

Malware Distribution Woes - mysql.com - Sept2011

• Popular websites victimized, become malware distribution sites to their own customers

Slashd	of 🤉
stories	Mysql.com Hacked, Made To Serve Malware
recent popular	Posted by Soulskill on Monday September 26, @06:52PM from the high-profile-problems dept.
ask slashdot	Orome1 writes
book reviews	"Mysql.com was compromised today, <u>redirecting visitors to a page serving malware</u> . Security firm Armorize <u>detected the compromise through its website malware monitoring platform HackAlert</u> and has analyzed how
games -idle	Hacked MySQL.com used to serve Windows malware
	By: Elinor Mills SEPTEMBER 26, 2011 6:10 PM PDT

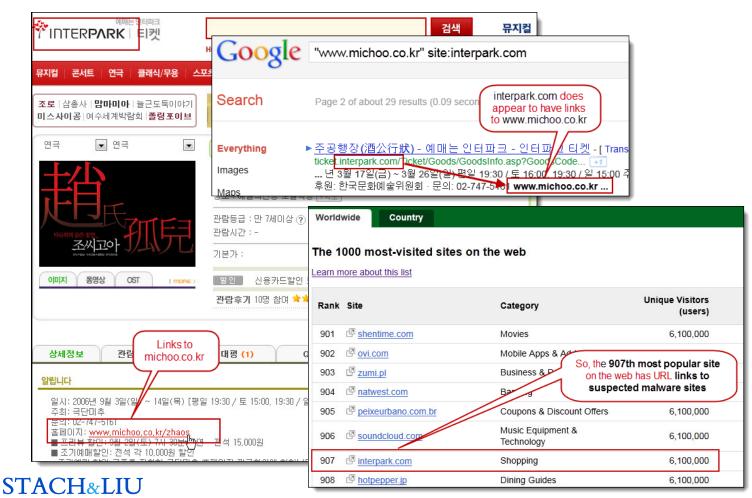
Malware Diggity DIGGITY TOOLKIT

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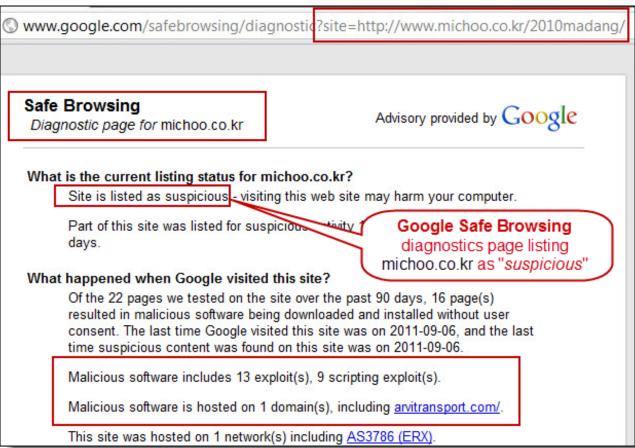
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SCAN Car Bing 2.0 API Key: Cr Google Safe Browsing	B61463C6A	(Searching Top 1000 m visited web sites on the Ir for 3rd party malware li	nternet	facebook.com [Remove] youtube.com [Remove]	
Target Domain	Offsite URL	Offsite App		Diagnostic URL		Ту
yoo7.com	http://www.resalh.com	http://www.resalh.com	http://www.google.com/saf	ebrowsing/diagnostic?site=http%	63a%2f%2fwww.resalh.com%2f	Malwar
jxedt.com	http://www.cqgj.net	http://www.cqgj.net	http://www.google.com/caf	ebrowsing/diagnostic?site=http%	63a%2f%2fwww.cqgj.net%2f	Malwar
jxedt.com	http://www.fit.sh.cn		ple result: interpark.com	prowsing/diagnostic?site=http%	63a%2f%2fwww.fit.sh.cn%2f	Malwa
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Malware Diggity DIGGITY TOOLKIT



Malware Diggity DIAGNOSTICS IN RESULTS





Malware Defenses

BLACKHAT SEO DEFENSES

- Malware Warning Filters
 - Google Safe Browsing
 - Microsoft SmartScreen Filter
 - Yahoo Search Scan
- Sandbox Software
 - Sandboxie (sandboxie.com)
 - Dell KACE Secure Browser
 - Office 2010 (Protected Mode)
 - Adobe Reader Sandbox (Protected Mode)
- No-script and Ad-block browser plugins



Advanced Defenses PROTECTYONECK



Traditional Defenses

GOOGLE HACKING DEFENSES

- "Google Hack yourself" organization
 - Employ tools and techniques used by hackers
 - Remove info leaks from Google cache
 - http://www.google.com/remove.html
- Regularly update your robots.txt
 Or robots meta tags for individual page exclusion
- Data Loss Prevention / Extrusion Prevention Systems
 Free Tools: OpenDLP, Senf
- Policy and Legal Restrictions



Existing Defenses "HACKYOURSELF"

- \checkmark Tools exist
- × Convenient
- ✗ Real-time updates
- ✗ Multi-engine results
- ✗ Historical archived data
- ✗ Multi-domain searching

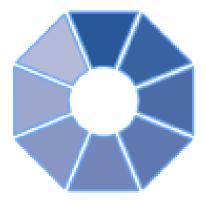




Advanced Defenses NEW HOT SIZZLE

Stach & Liu now proudly presents:

- Google and Bing Hacking Alerts
 - SharePoint Hacking Alerts 118 dorks
 - SHODAN Hacking Alerts 26 dorks
- Diggity Alerts FUNdle Bundles
 - Consolidated alerts into 1 RSS feed
- Alert Client Tools
 - Alert Diggity Windows systray notifications
 - iDiggity Alerts iPhone notification app





Google Hacking Alerts Advanced defenses

- Google Hacking Alerts
 - All hacking database queries using Google alerts
 - Real-time vuln updates to >2400 hack queries via RSS
 - Organized and available via Google reader importable file

Coordonate		`		@gmail.com <u>Settings</u> <u>FAQ</u>
Google alerts Manage your Alerts	GHDB regexs made into Google Alerts			
Your Google Alerts				Switch to text emails Ex
Search terms	Туре	How often	Email length	Dolivor to
<u>IHost=*.* intext:enc_UserPassword=* ext:pcf</u>	Web	as-it-happens	up to 50 results	Feed S View in Google Reader
"# Dumping data for table (usernameluserluserslpassword)"	Web	RSS Feeds generated	d that	Feed S View in Google Reader
"# Dumping data for table"	Web	track new GHDB vulne pages in real-time	erable results	<u>Feed</u> S View in Google Reader
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Google Hacking Alerts Advanced defenses

Google reader	All items	James Band made hales			
Add a subscription	Google Alerts - "mySQL error with query"	James Bond needs help! mySQL error page snippet conveniently provided in RSS summary			
All items (1000+)	Show: 11 new items - all items Mark all as read - Refresh Feed settings	provided in KSS summary			
People you follow					
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🕀 芦 FSDB-Configuration Ma (371)	James Bond 007 :: MI6 - The Home Of James Bond®				
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🕀 📁 FSDB-Privacy Related (501)	via Google Alerts - "mySQL error with query"				
🟵 📁 FSDB-Remote Administr (102)					
🕀 📁 FSDB-Reported Vulnera (90)	mySQL error with query SELECT c.citem as itemid, c.cnumber as commentid, c.cbody	y as body, c.cuser as			
🖲 📁 FSDB-Technology Profile (652)	user, c.cmail as userid, c.cemail as email, www.mi6.co.uk/mi6.php3//news/index.php?itemidt)			
🖲 📁 GHDB-Advisories and V (1000+					
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Bing Hacking Alerts Advanced defenses

Bing Hacking Alerts

- Bing searches with regexs from BHDB
- Leverages http://api.bing.com/rss.aspx
- Real-time vuln updates to >900 Bing hack queries via RSS

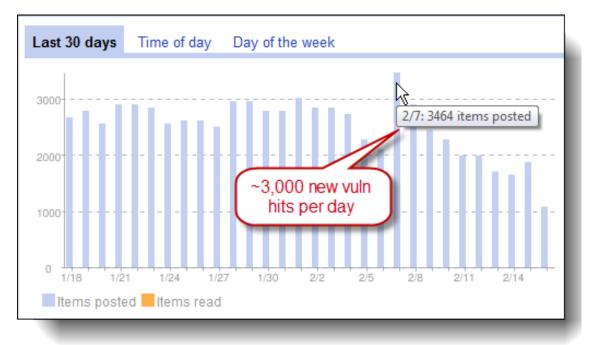
Google reader	All items - Search
Add a subscription	Bing: intitle:"Snap Server" intitle:"Home" "Active Users" »
All items (1000+)	Show: O new items - all items Mark all as read - Refresh Feed settings
People you follow	
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Subscriptions -	🕆 Snap Server CORESERVER [Home] - CORESERVER • Home
🕀 📁 BHDB-Advisories and V (910) 🏾 🖆	🖄 Snap Server GSTI [Home] - GSTI • Home
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🖲 🃁 BHDB-Configuration Ma (207)	Snap Server SNAP824929 [Home] - SNAP824929 • Home
🖲 🎾 BHDB-Error Messages (507)	
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🗉 🃁 BHDB-Footholds (45)	Shan Sanyar ETB SEB\/EB [Hama]
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STACH&LIU

Bing/Google Alerts LIVE VULNERABILITY FEEDS

World's Largest Live Vulnerability Repository

• Daily updates of ~3000 new hits per day







ADVANCED DEFENSE TOOLS

Diggity Alert Fundle Bundle

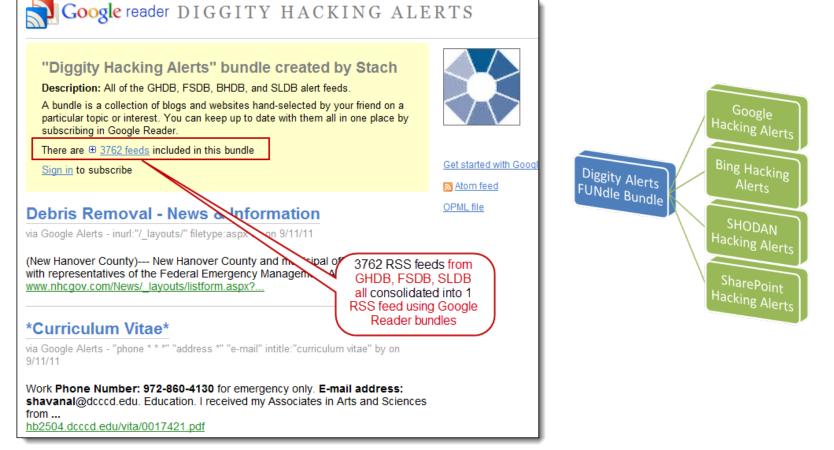




FUNdle Bundle



ADVANCED DEFENSES





FUNdle Bundle

ADVANCED DEFENSES

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FUNdle Bundle

MOBILE FRIENDLY

Google	e Reader							
Diggity	Hacking Alerts			·				
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2	WebPartPagesWebService Web Service - Google Alerts - inurl:"/ vti bin/webpartpages.asmx" filetype:asmx							
3				* - Google Alerts - intitle:index of passwd passwd bak				
4	*Usage Statistics for* gui		oogle	e reader				
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#	mark these items as rea	25						
Tags	Subscriptions		Jul 201	cs for" "Generated by Webalizer" 1, 70, 59, 62, 46, 132, 3975, 1073, 127, 1367, 1632. Totals, 3975, 1073, 1				
_				e Statistics for totallybali.com - Summary by Month - Google Alerts -				
		1000		Usage Statistics for" "Generated by Webalizer"				
			Jul 201	1, 1910, 827, 523, 319, 1013, 72638, 959, 1570, 2482, 5731. Totals, 72638 ,				
		~	Opera	te on comma separated data - Google Alerts - data filetype:mdb -site:gov -site:mil				
		2		to work with a matrix of data that looks something like the matrix below. I				
		1	Recov	er My Files Data Recovery Standard Download Data Recovery - Google				
		~	Alerts -	data filetype:mdb -site:gov -site:mil				
	STACH&LIU		Recove	er My Files Data Recovery Software is a powerful utility which will recover d	5			





ADVANCED DEFENSE TOOLS SHODAN Alerts





SHODAN Alerts

FINDING SCADA SYSTEMS

SHODAN scada	*	
» Top countries match is your se Using SHODAN to find SCADA web admin interfaces		13 12 8 6 6
218.111.69.68 Added on 11.08.2011 Kuala Lumpur	HTTP/1.0 401 Authorization Required Date: Sat, 11 Jun 2011 04:38:51 GMT Server: Apache/1.3.31 (Unix) WWW-Authenticate: Basic ream="iSCADA Gateway User Login" Transfer-Encoding: chunked Content-Type: text/html; charset=iso-8859-1	
66.18.233.232 Added on 20.04.2011	HTTP/1.0 401 Authorization Required Date: Wed, 20 Apr 2011 20:09:46 GMT Server: Apache/2.0.63 (FreeBSD) mod_python/3.3.1 Python/2.5.2 WWW-Authenticate: Digest realm="RTS SCADA Server", nonce="Z9PJN	IF+hB.



SHODAN Alerts



SHODAN RSS FEEDS

Google reader SHODAN ALERTS

"SHODAN Alerts" bundle created by stach

Description: SHODAN RSS Alerts

A bundle is a collection of blogs and websites hand-select a particular topic or interest. You can keep up to date with place by subscribing in Google Reader.

Subscribe

67.228.99.229:80

via SHODAN - Search: Server: LiteSpeed country:CN on 8/2

HTTP/1.0 200 OK Date: Tue, 02 Aug 2011 13:30:41 GMT Server: LiteSpeed Connection: close X-Powered-By: PHP/5.2.14 Content-Type: text/html Content-Length: 1110

184.172.42.27:80 via SHODAN - Search: Server: LiteSpeed country:CN on &

HTTP/1.0 302 Found

STACH&LIU

G	ioogl	e reader
ith	Feeds	SHODAN Alerts C ×
٤		28.99.229:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Date: Tue, 02 Aug 2011 13:30:41 GMT Server: LiteSpeed Connection:
Ľ		72.42.27:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 302 Found Date: Tue, 02 Aug 2011 13:13:37 GMT Server: LiteSpeed Connectio
2/ 🟠		212.156.174:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Date: Tue, 02 Aug 2011 13:12:25 GMT Server: LiteSpeed Accept-Range
2		243.113.188:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Date: Tue, 02 Aug 2011 12:44:38 GMT Server: LiteSpeed Accept-Range
2		3.136.8:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Transfer-Encoding: chunked Date: Tue, 02 Aug 2011 12:42:48 GMT Ser
5		2.175.133:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Date: Tue, 02 Aug 2011 12:19:36 GMT Server: LiteSpeed Accept-Range
2/ 🖍		88.161.220:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Date: Tue, 02 Aug 2011 12:10:13 GMT Server: LiteSpeed Accept-Range
2	3	20.86.40:80 - SHODAN - Search: Server: LiteSpeed country:CN /1.0 200 OK Date: Tue, 02 Aug 2011 11:57:18 GMT Server: LiteSpeed Accept-Range

Bing/Google Alerts THICK CLIENTS TOOLS

Google/Bing Hacking Alert Thick Clients

- Google/Bing Alerts *RSS feeds as input*
- Allow user to *set one or more filters*
 - e.g. *"yourcompany.com"* in the URL
- Several *thick clients* being released:
 - Windows Systray App
 - Droid app (coming soon)
 - iPhone app











ADVANCED DEFENSE TOOLS

Alert Diggity



Alerts Diggity Advanced defenses

Alerts Diggity File Help		
All Alerts Subscribed	Feeds Subscribed Domains Schedule	
1		Add
milblogging.com	Alerts Diggity	
	File Help	
	All Alerts Subscribed Feeds Subscribed Domains Schedule	
	Update Cancel Clear	
	URL	Publish Date
	http://milblogging.com/index.php%3Fentry%3Dentry110802-153334	8/2/2011 7:38:18 PM
	http://milblogging.com/index.php?entry=entry110727-211303	8/1/2011 5:31:00 PM
	http://milblogging.com/index.php%3Fentry%3Dentry110802-043535	8/2/2011 3:05:01 AM
	http://milblogging.com/index.php%3Fentry%3Dentry110801-171305	8/1/2011 11:59:26 PM
	http://milblogging.com/index.php?entry=entry110731-123020	8/1/2011 6:01:00 AM
	http://milblogging.com/index.php?entry=entry110727-21130 ²	erts Update X
		rts is up to date. 2 vulnerabilities



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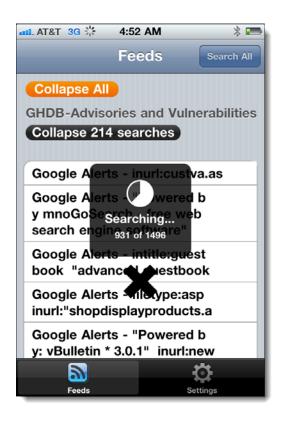
ADVANCED DEFENSE TOOLS

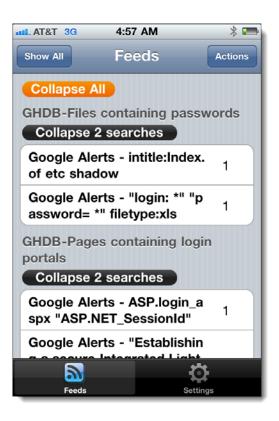
iDiggity Alerts



iDiggity Alerts Advanced defenses

🚛 AT&T 3G 4:43 AM 🔋 🎟
Settings
iDiggity Alert URL
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Search Domains
Tap To Add a Domain
hp.com
milblogging.com
Startup Behavior
Search feeds OFF
Feeds Settings







iDiggity Alerts Advanced defenses

AT&T 3G

AT&T 3G 4:57 AM * 🖚 GHDB-Files containing... Feeds hp.com Google Alerts - "login: *" "password= *" filetype:xls http://www.google.com/url? sa=X&q=http://h30499.www3. hp.com/hpeb/attachments/hpe b/sws-20/1044/1/Attack%2520Status s.XLS&ct=ga&cad=CAcQARgB IAEoATAAOABAxvOQ8QRIAIg AYqVlbi1VUw&cd=YlV5QJjTxm g&usg=AFQjCNEzfNr95HhqCh mtMJRucbi1ZmKU-g 2011-07-18 13:48:58 2 Đ.

Settings

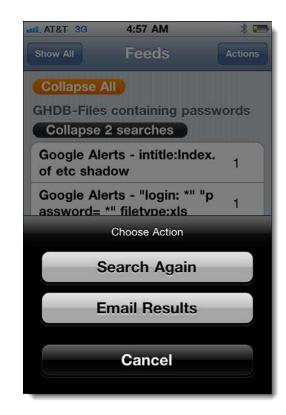
Feeds

STACH&LIU

Reminder Settings Reminder Details Thursday (08-04) at 04:30 AM **Repeat Weekly** ON Cancel Done Mon Aug 28 3 29 AM Tue Aug 2 30 Today 4 PM Thu Aug 4 5 31 2 Feeds Settings

4:44 AM

* 📼



New Defenses "Google/bing hack alerts"

- \checkmark Tools exist
- ✓ Convenient
- \checkmark Real-time updates
- ✓ Multi-engine results
- \checkmark Historical archived data
- ✓ Multi-domain searching



Future Direction

ISNOW



Diggity Alert DB



🖇 Database Browser					
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				http://depok-aeromodelling.com/category/295/nine-eagles	Google Alerts - "Warning
			Eliza Dushku Central / Photo Gallery	http://eliza-dushku.org/gallery/displayimage.php?album=102	





Questions? Ask us something We'll try to answer it.

For more info: Fran Brown Rob Ragan (@sweepthatleg) Email: contact@stachliu.com Project: diggity@stachliu.com Stach & Liu, LLC www.stachliu.com





Thank You

Stach & Liu Google Hacking Diggity Project info: http://www.stachliu.com/index.php/resources/tools/google-hacking-diggity-project/

