

Tenacious Diggity

Skinny Dippin' in a Sea of Bing 29 July 2012 – DEF CON 20 – Las Vegas, NV



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



Agenda

- Introduction/Background
- Advanced Attacks
 - NEW Diggity Attack Tools
- Advanced Defenses
 - NEW AlertDiggity Cloud Database
- Future Directions



Introduction/Background GETTING UP TO SPEED



Diggity Tools PROJECT OVERVIEW

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		STACH&LIU	HOME	SERVICES	TRAINING	RESOURCES	COMP
GOOGLE HACKING DIGGITY HISTORY OF GC		resources GOOGLE H	ACKING I	DIGG		PROIF	Ž
History of Google Hacking Timeline Flipbook List Map		Google Hacking Digg	ity Project				
The second secon	DIGGITY ALERTS Stach & Liu Unveils Google/Bi Jul 29, 2010	The Google Hacking Diggi investigating the latest teo quickly identify vulnerable contains downloads and li Defensive strategies are al monitor your network and	chniques that leverage so systems and sensitive of nks to our latest Google so introduced, including	earch engine lata in corpo Hacking res	es, such as G orate networ earch and fi	ioogle and Bir ks. This proj ree security to	ng, to ject pa ools.
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Nov 2, 2007	huts down SOAP Search ndStone SiteDigger v 3.0 released	B . A	TTACK TOOL	S			
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ТооІ	Description
GoogleDiggity	Traditional Google hacking tool
BingDiggity	Bing equivalent of traditional Google hacking tool
FlashDiggity	Adobe Flash security scanning tool
DLPDiggity	Data loss prevention scanning tool
LinkFromDomain	Bing footprinting tool based on off-site links
CodeSearch Diggity	Open-source code vulnerability scanning tool
MalwareDiggity	Malware link detection tool for off-site links





Diggity Tools NEW ATTACK TOOLS

ТооІ	Description
PortScan Diggity	Passive port scanning via Google
NotInMyBackYard	Easily find your info in third-party sites
BHDB 2.0	New Bing Hacking DB now as affective as Google
Bing BinaryMalware	Find malware via Bing's indexing of executables
CodeSearch REBORN	Brought back from the dead
SHODAN Diggity	Easy interface to SHODAN search engine



Diggity Scraping NEW ACROSS ALL ATTACK TOOLS





Diggity Scraping PROXIES SPECIFICATION



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👌 Search Diggity

Diggity Scraping MANUAL PROXIES SPECIFICATION

Search Diggity	
File Options Help	
Google CodeSearch Bing	LinkFromDomain DLP Flash Malware PortScan NotInMyBackyard BingMalware Shodan
Advanced Simple	SCAN Settings
Query Appender	Sites/Domains/IP Ranges Proxies Bulk http://31.7.58.29:3128/ [Remove] http://91.121.102.62:3128/ [Remove] http://46.163.64.227:3128/ [Remove]
Queries	Clear http://82.142.129.34:3128/ [Remove] Hide
 FSDB GHDB GHDBReborn SharePoint Diggity SLDB 	Cater y Subcategory Search String Page Title URL



Advanced Attacks WHAT YOU SHOULD KNOW





NEW GOOGLE HACKING TOOLS

PortScan Diggity



PortScanning TARGETING HTTP ADMIN CONSOLES

Searching for web admin interfaces on non-standard HTTP ports

Google site:/com:*		
Search About 681,000 results 0.06 se	Google	site:/216.75.*.*:* IP address range
Everything Twimbow - Colored Thou https://www.twimbow.com:5223/		16 results (0.06 seconds)
Imae All non-port 80/443 itor Tool. Mai HTTP admin	d fi Everything	SmarterMail Login - SmarterMail 216.75.63.101:9998/
Vide consoles for .com <u>e.VastSpot.Com - Se</u> rver-triburil <mark>e.com:81/</mark> News Tribe.VastSpot.Com este un jou	Maps	Please log in to SmarterMail Full email address (ex. user@exampl Language. Use Browser Language, Chinese (People's Republic of .
News Tribe. VastSpot. Com este un jou este stapanul unui mic sat, pe	car Videos	SHOUTcast Administrator 216.75.172.130 <mark>:8015/</mark>
More Davidsons Motors - Denv https://davidsonsmotors.com:1		Server Status: Server is currently up and public. Stream Status: Stre with 0 of 15 listeners (0 unique). Listener Peak: 15. Average Listen
Davidsons Motors is a family-o	More	Prolinkweb - Web Mail 216.75.20.8 <mark>2:32000</mark> /mail/ - Translate this page Endereço de E-mail : Senha : Login criptografado. Esqueceu sua se



PortScanning TARGETING PORTRANGES

Searching for specific port ranges



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PortScanning TARGETING VULNERABILITY

Targeting specific HTTP ports example



PortScan Diggity TARGETING HTTP ADMIN CONSOLES



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NEW GOOGLE HACKING TOOLS

NotInMyBackYard



Data Leaks on Third-Party Sites SENSITIVE INFO EVERYWHERE

Verizon - 2012 Data Breach Investigation Report

External breach notification methods are much different for large organizations. While notification by law enforcement was the second most seen, at 10%, it was still far lower than that of the overall dataset. In most cases for large organizations notification occurred when the thief made the disclosure known. Perhaps we should create new breach discovery classifications of "YouTube," "Pastebin," and "Twitter" for the 2013 DBIR? (Of course, we're joking (sort of), but it is quite important to understand the role social networking plays in breach discovery, but also in how attacks are initiated using these tools. Perhaps we'll follow up with a blog post another time.) An interesting "what-if" scenario would be whether or not these organizations would have discovered these breaches through some sort of internal breach discovery method. In many cases, there is little evidence suggesting they would.





PasteBin Leaks



- PASSWORDS IN PASTEBIN. COM POSTS
- Twitter feed tracking passwords leaked via PasteBin

twitter Search Q	
	PASTEBIN Follow @pastebin
PastebinLeaks	CREATE NEW PASTE
@PastebinLeaks Glued to the leak Discovering leaks on Pastebin, web attacks and so on	Image: State of the state
1	
Twitter feed tracking public data leaks via PasteBin.com	 Target: http://biclopsgames.com/game.php?id=%Inject_Here%1 Date: 12/15/2011 11:17:28 PM
Tweets Favorites Following Followers Lists -	 4. DB Detection: MySQL error based (Usernames, emails, and password hashes of compromised website posted to PasteBin.com
PastebinLeaks PastebinLeaks Possible Massive mail/pass leak pastebin.com/L6YbD1 #pastebinleaks	7. Data Base: biclops_phpb1
16 Dec	8. Table: phpbb_users 9. Total Rows: 341
PastebinLeaks PastebinLeaks	10.
Possible listing of http passwords pastebin.com/qZbccl #pastebinleaks	11. user_password user_email 12. \$voloch b35d1ac9729539d9f8ef87508e8b2be0 kirillwow79@mail.ru
15 Dec	13. 海盗 5e0ed8d03d765e4fb5128b6ba7bc8481
	14. AaronFF cee3d5a7af23179acea3550fc6301300 EmbeveIcomo@ma11.bij.
	15. abadrabPype 1e3c47bf39af11993cfdc689693b7012 jeinso.n.wels
	16. absurdism 297dbe7699dcfa60609bf9e667e2e4dc evolancia@gma 17. Accichfueve adefb16336d900168c9bfc40af5b18ef lokorepaserra
ACH&III	aderbiosousoeloconceptice local poloer

PUBLIC CLOUD SEARCHING Public cloud storage document exposures Coogle intext."name" intext."taxpaye" site:dl.dropbox.com Microsoft* SkyDrive. Dropbox Google docs
Google intext:"name" intext:"address" intext:"taxpayer" site:dl.dropbox.com
Search 7 results (0.23 seconds)
Everything Images Images
Videos with passwords in Google Docs files News Search About 2,700 results (0.41 seconds) Shopping Database dump files on Microsoft SkyDrive Everything nepsi-sw22 https://docs.google.com/View?docid=0AbKTT11 More Database dump files on Microsoft SkyDrive Images bot-end-marker ! enable secret 5 \$1\$BHsg\$izpAqHDUbLzEWCqfP/leT/. enable password 7 0455254C5F765C ! no aaa new-model. system mtu routing 1500
Images Windows Live SkyDrive Videos ncepsi-sw21-01-04-10 Maps Mtps://skydrive.live.com/embedicon.as News enable secret 5 \$1\$P6du\$.NRbLzz5WiKER5mgw.t7r[.enable password 7] Videos Shopping 000A3D4C540C1B ! no aaa new-model. system mtu routing 1500. ip subnet-zero
News Windows Live SkyDrive More ncepsi-rt06-01-04-10 Shopping https://skydrive.live.com/embedicon/r https://docs.google.com/View?docid=0AbKTT11 Open 122509-26520-01.dmp 122509-2 Iogging buffered 51200 warnings. enable secret 5 \$1\$7N\$Ru28/DDfSHrAgq5bhUFzF Tempe, AZ enable password 7 151C2546547D25 ! no aaa new-model ! resource Change location 19

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6:46 PM







Data Loss In The News MAJOR DATA LEAKS

• Yale Alumni 43,000 SSNs Exposed in Excel Spreadsheet



NotInMyBackYard LOCATION, LOCATION, LOCATION



Cloud storage:

 Google Docs, DropBox, Microsoft SkyDrive, Amazon S3

Social networking sites:

• Facebook, Twitter, LinkedIn

Public document sharing sites:

 scribd.com, 4shared.com, issuu.com, docstoc.com,

PasteBin and text sharing sites:

• pastebin.com, pastie.org, ...

Public presentations sharing sites:

 slideshare.net, prezi.com, present.me

Public charts and graphs sharing sites:

 ratemynetworkdiagram.com, gliffy.com, ManyEyes

Video sharing sites:

 vimeo.com, dailymotion.com, metacafe.com, youtube.com





NotInMyBackYard PASTEBIN EXAMPLE





NotInMyBackYard

Google CodeSearch Bing Li	nkFromDomain D	DLP Flash	Malware	PortScan	NotInMyBackyard	BingMalware Shodan
Advanced Query Appender password Locations Lock for the wor "password"	Cancel	Targets <	1ethods Quotes InText InBody	Bulk Impor Clear		
 cloud stora site:dl.dropbox.com inurl:docid site:docs.goc site:live.com "skydrive" site:s3.amazonaws.com ext:s3.amazonaws.com Extensions PDF CSV and TXT MSOffice ext:doc ext:doc<!--</td--><td>site:s3.amazonaw: site:s3.amazonaw: Look at Amazon cloud storage up site:s3.amazonaw: site:s3.amazonaw: site:s3.amazonaw: site:s3.amazonaw: site:s3.amazonaw: output Select</td><td>s.com ext:xls n S3 loads s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls</td><td>password C password 4 password 4 password 5 password 5 password 5 password 6 password 6 password 6</td><td>copy_of_user.xls - cocial Networking - cocial Networking - comains</td><td>http://media.a a: http://s3.amaz b http://himis.s3 S: https://s3.ama https://s3.ama Ai http://s3.ama Ai http://s3.medi https://interne</td><td>ssmarketing.s3.amazonaws.com/ rchonmedia.com.s3.amazonaws. conaws.com/caclubindia/cdn/foru .amazonaws.com/himis-esp.xls izonaws.com/files3.peopleperhou izonaws.com/files3.peopleperhou ad-user-data.s3.amazonaws.com a.s3.amazonaws.com/wp-conter tmarketingwhizkidz.s3.amazonaw con 3, Cox, michael.stegmaier@co</td>	site:s3.amazonaw: site:s3.amazonaw: Look at Amazon cloud storage up site:s3.amazonaw: site:s3.amazonaw: site:s3.amazonaw: site:s3.amazonaw: site:s3.amazonaw: output Select	s.com ext:xls n S3 loads s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls s.com ext:xls	password C password 4 password 4 password 5 password 5 password 5 password 6 password 6 password 6	copy_of_user.xls - cocial Networking - cocial Networking - comains	http://media.a a: http://s3.amaz b http://himis.s3 S: https://s3.ama https://s3.ama Ai http://s3.ama Ai http://s3.medi https://interne	ssmarketing.s3.amazonaws.com/ rchonmedia.com.s3.amazonaws. conaws.com/caclubindia/cdn/foru .amazonaws.com/himis-esp.xls izonaws.com/files3.peopleperhou izonaws.com/files3.peopleperhou ad-user-data.s3.amazonaws.com a.s3.amazonaws.com/wp-conter tmarketingwhizkidz.s3.amazonaw con 3, Cox, michael.stegmaier@co



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Cloud Docs Exposures PUBLIC CLOUD SEARCHING

Public cloud storage document exposures



S3 Simple Storage Service

Google	password ext:xls site:s3.amazonaws.com						
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Bing Hacking Database v2.0

NEW GOOGLE HACKING TOOLS





Bing Hacking Database v2.0 STACH&LIU TOOLS

BHDB v2.0 - Updates

- 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

• UPDATES (2012)

- ext: functionality now added
- inurl: work around by using instreamset:url:
- New BHDB 2.0
 - Several thousand more Bing dorks!







NEW GOOGLE HACKING TOOLS





Bing Malware Search TARGETING MALWARE

Targeting known malware signatures

http:/	/www.metasploit.com/res	earch/misc/mwsearch/sigs.txt							
Win: Tro Tro Win:	32.Sobig.E@mm:3ef8 jan.Muldrop.970:3d jan.Dropper.Vbs.Du 32.Dumaru.A@mm:aa3	0f459:0001b000:000190d0:00005000 9a91:00027000:00025bd6:00000000 44553b8:00008000:00001000:00002400 mmytag.A: <mark>37fb2583</mark> :00008000:00001020:00000a00 8b2cfc:0000b000:00009b40:00002000							
Bac Sis	6 6 6 Contraction and Contraction and Contraction and Contraction of Contraction								
Tro Win	Web Images Videos Sh	opping News Maps More MSN Hotmail							
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	SEARCH HISTORY ALL RESULTS 1-1 of 1 results Advanced								
	Turn on search history to start remembering your searches. Turn history on	www.terra.es Time Date Stamp: 37fb2583. Symbols Pointer: 00000000 Address of Entry Base of Code: 00001000 Size of Image: 00008000. Size of Headers: 00000 www.terra.es/personal7/sanchezsignes/PuRSuiT.e_xe							

Google vs Bing Size More bang for your search



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NEW GOOGLE HACKING TOOLS

CodeSearch 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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	File C	Options Help						
	GoogleDiggity	CodeSearchDiggity	BingDiggity	LinkFromD	omainDiggity DLPDiggity	FlashDiggity Ma	lwareDiggity	
	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	
	Queries		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/cor/arch/p?hl=en#ulAl	
		ystem Interaction	Amazon Keys	EC2	ec2[^\d][""][A-Z0-9]{20}[""]	trunk/src/eifaw:		
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amazon webservices[™]



Cloud Security NO PROMISES...NONE

Amazon AWS Customer Agreement

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

10. Disclaimers.

No guarantee of confidentiality, integrity, or availability (the CIA security triad) of your data in any way

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Cloud Crawling CREATE YOUR OWN SEARCH ENGINES

Web Data Extraction

Automate virtually anything you can do with a web browser

Query the World

Tap the web's massive database.



The most powerful web-crawler ever.



screen-

scraper





NEW GOOGLE HACKING TOOLS

SHODAN Diggity



SHODAN



HACKER SEARCH ENGINE

• Indexed service banners for whole Internet for HTTP (Port 80), as well as some FTP (23), SSH (22) and Telnet (21) services

名 SHODAN	"Server:NAShttpd"	Search
		⇒
» Top countries matc	hing your search Italy	20
	China	14
NAS sto		7 6 5
devices I		C C
123.116.195.215	HTTP/1.0 401 Unauthorized	Default username is 'admin'
Added on 06.02.2012	Server: NAShttpd	
Deijing	Date: Mon, 06 Feb 2012 18:01:34 GM	
	WWW-Authenticate: Basic realm="De Content-Type: text/htm1	trault USER:admin"
	Connection: close	

SHODAN

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FINDING SCADA SYSTEMS

SHODAN scada	
» Top countries match a your Using SHODAN to find SCADA web admin interfaces	search Canada 13 Finland 12 United States 8 Sweden 6 Denmark 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 Calgary dsl-main-66-18-233-232-	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="Z9PJNF+hB



SHODAN



FINDING SCADA SYSTEMS



SHODAN Diggity FINDING SCADA SYSTEMS



NotInMyBackyard Shodan Google CodeSearch Bing LinkFromDomain DLP Flash Malware PortScan BingMalware Advanced Simple Settings SCAN API Key: Create Hide Query Appender ٠ Enter SHODAN API key Search String URL Category Hostnames City Country -SCADA Niagara Web Server http://193.185.169.90/ Finland Queries SCADA Niagara Web Server http://12.171.57.87/ United States Default Credentials FTP SCADA Niagara Web Server http://70.168.40.243/ wsip-70-168-40-243. Cleveland United States Printer http://216.241.207.94/ SCADA Niagara Web Server sciop-ip94.scinternet. Colorado City United States Router SCADA Niagara Web Server http://206.82.16.227/ niagarafred.norleb.k1 Lancaster United States SCADA http://184.187.11.158/ SCADA Niagara Web Server Omaha United States Electro Industries Gauc 4 Photovoltaic Rockwell SLC-505 PLC Selected Result Output SCADA USA HTTP/1.0 302 Moved Temporarily SCADA location: http://70.168.40.243/login Finding SCADA systems scada content-type: text/html; charset=UTF-8 via SHODAN Diggity Niagara Web Serve content-length: 116 set-cookie: niagara_audit=guest; path=/ Þ Siemens s7 • server: Niagara Web Server/3.5.34 4 ۲

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Advanced Defenses PROTECT YO NECK



Diggity Alert DB



💰 Database Browser							
File View Connections	s Execute Help						
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				ince in cost			



Future Directions WHAT WILL HAPPEN



Diggity Dashboards

Google Charts





CLOUD DATABASE





Mobile BI Apps







DLPDiggity - # of Files Analyzed per File Extension

Total = 12,943 files







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/

