

Open Source Information Gathering

Chris Gates carnal0wnage



Shameless Self Promotion

- Blogger...carnal0wnage.attackresearch.com.
- Metasploit Project.
- Attack Research.
- Security Twit \rightarrow carnal0wnage.
- Want more? Use what I'm about to teach you...or just ask...I like hoegaarden.



Information Gathering

Denotes the collection of information before the attack. The idea is to collect as much information as possible about the target which may be valuable later.

> -Christian Martorella Edge-Security Fist Conference 2009 http://www.fistconference.org/



OSINT

Open **S**ource **INT**elligence

"Is an information processing discipline that involves finding, selecting, and acquiring information from publicly available sources and analyzing it to produce actionable intelligence."

http://en.wikipedia.org/wiki/Open_Source_Intelligence



We want to turn...





Into...

File Edit View Terminal Tabs Help msf exploit(ms06 067 keyframe) > sessions -i 1 [*] Starting interaction with 1... Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp. C:\Documents and Settings\User\Desktop>ipconfig ipconfig Windows IP Configuration Ethernet adapter Local Area Connection: Connection-specific DNS Suffix . : Default Gateway 172.16.2.1 C:\Documents and Settings\User\Desktop>



Or...



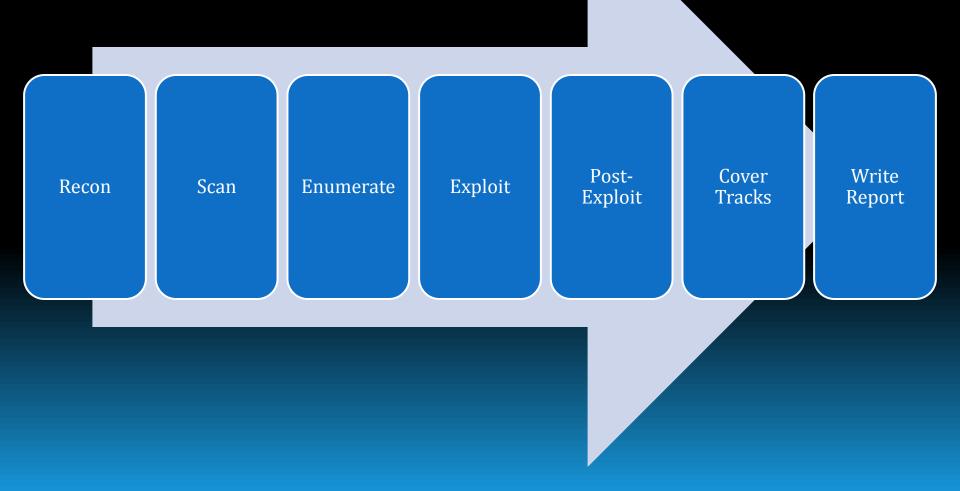


Why Do OSINT?

- Open Source Intelligence Gathering is your critical first step to Full Scope Pentesting or Real World attacking.
 - It simulates REAL WORLD reconnaissance.
 - Anything on the net is in scope.... Users are fair game for client-sides.
 - Any boxes you own are in scope.... No boxes are off limits.
 - Do you know what information you, your employees, or your company has put out there?

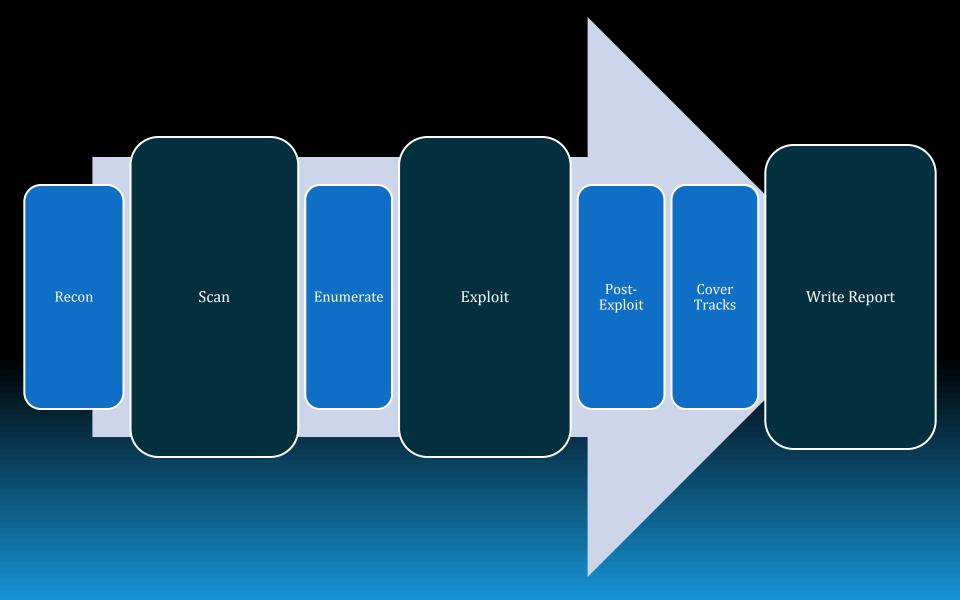


Typical Pentesting Methodology



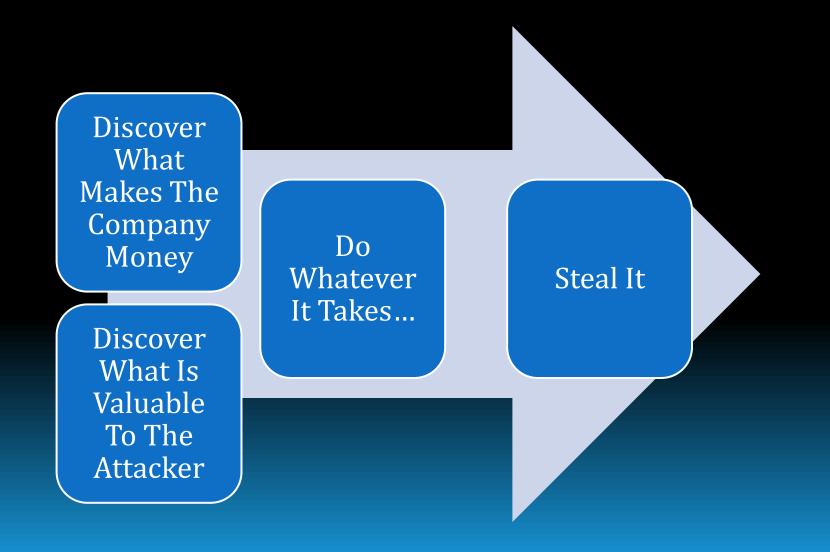


What We Focus On Currently





Real World Hacking Methodology





Definitions!?

- A few definitions to get out of the way...I'll try to make it as painless as possible.
- But, we're going have to read...yeah sad face.





Types of Information Gathering

- Passive
- Semi-Passive
- Active

 Category Descriptions From http://www.paterva.com/web3/services/information-gatheringservice/



Passive Information Gathering

Passive

- Great care is taken to ensure that the target organization does not detect the profiling. This means that no packets can ever be sent to the target.
- This type of profiling is typically time intensive.

NO TRAFFIC

From http://www.paterva.com/web3/services/information-gathering-service/



Semi-Passive Information Gathering

- Semi-Passive
 - Profiling the target with methods that would appear to the target as normal Internet traffic and behavior.

NORMAL TRAFFIC

From http://www.paterva.com/web3/services/information-gathering-service/



Active Information Gathering

Active

- This type of profiling **should** be detected by the target organization.
- Actively seeking out new/unpublished servers, directories, files, documents along with full network visibility scans.

ABNORMAL TRAFFIC

From http://www.paterva.com/web3/services/information-gathering-service/



Categories of Information Gathering

- Two General Types
 - Infrastructure.
 - People / Organization.



Infrastructure Information Gathering

- Infrastructure
 - Every organization with an Internet presence requires some form of infrastructure to support that presence. That information is what we want to discover.
 - Infrastructure profiling is far easier to do and automate than people/organization profiling which is more manual.



Categories of Information Gathering

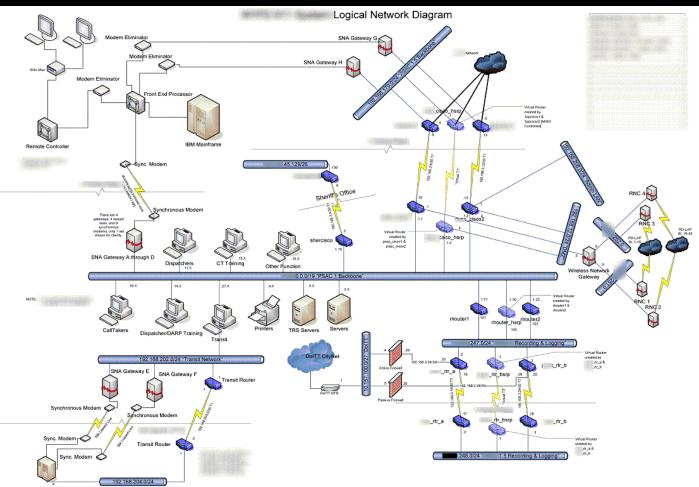
Infrastructure



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Categories of Information Gathering

Infrastructure





People/Organization Information Gathering

People / Organization

- Every organization requires people to support that organization. How runs the company? Who runs IT? Who runs finance/HR? That information is what we want to discover.
- People / Organization profiling is much more difficult to do and **automate** than infrastructure. Which John Doe is the right one?



Categories of Information Gathering

People / Organization





Where Does This Information Come From?

- Web 2.0...How I <3 thee...
- Public data and records.



carn

- Information that is mandatory for the Internet (DNS, whois, MX).
- Private data we pay for i.e. Lexis Nexis/Choice Point/Find a Friend/Spoke/Zoominfo.
- Data placed there by the target.
- Data placed there by the target's users.













exisNexis

ChoicePoint

How Do We Find It?

Information that is mandatory for the Internet.

Carn

- DNS, MX, Web.
- Whois.
- Data placed there by the target.
 - Voluntarily.
 - Required by State/Federal law.
- Data placed there by the target's users.
 - Voluntarily.
 - Required by State/Federal law.

Considerations

- Tons of Information.
 - Can be hard to sort through.
 - Some data gathering/analysis can be automated.
 - Maltego!
 - And other tools.



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- Other data needs a human to sort through.
 - Brain!
 - But now Maltego Mesh can help





Practical Examples

Infrastructure Intelligence Gathering

 How would you like to discover ALL networks/netblocks a target organization owns.

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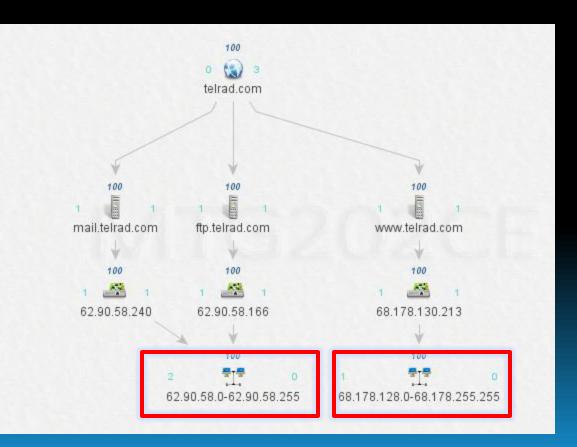
- How would you like to discover a target organization's presence in other countries (.co.uk, .de, .be, etc).
- We want to build that infrastructure diagram without the target knowing we are doing it!

Infrastructure: Identify Other Netblocks

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wnage

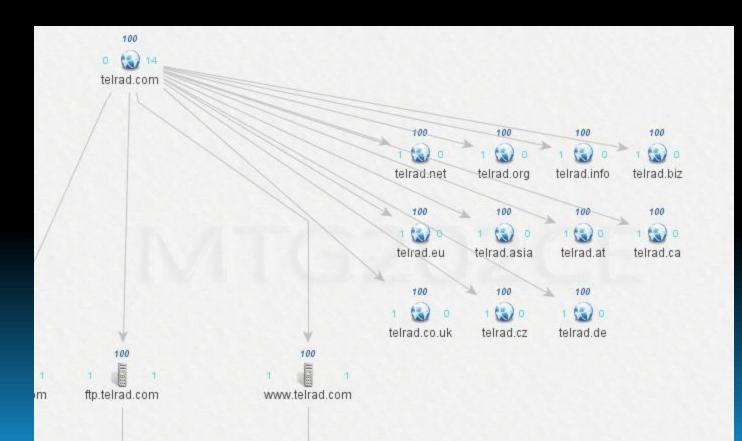
Identify other networks/netblocks





Infrastructure: Discover Other TLDs

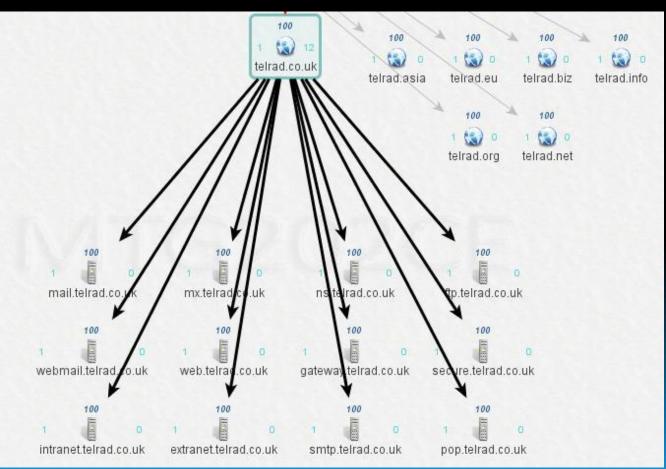
Expand out to other TLDs





Infrastructure: Bruteforce DNS names

Bruteforce DNS names

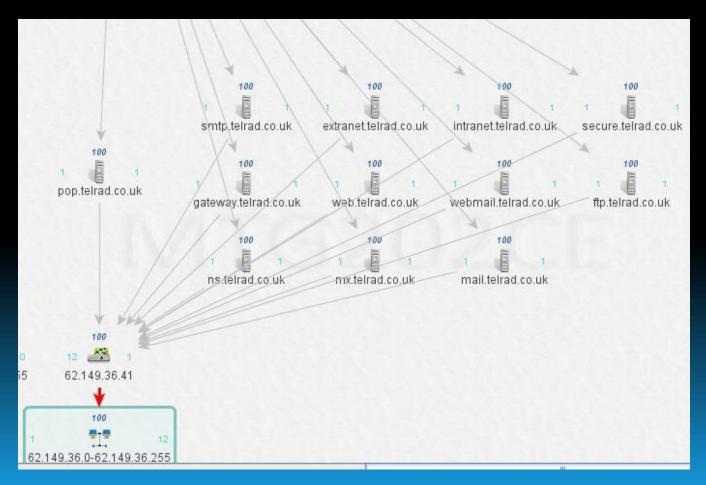


Infrastructure: Identify Even More Netblocks

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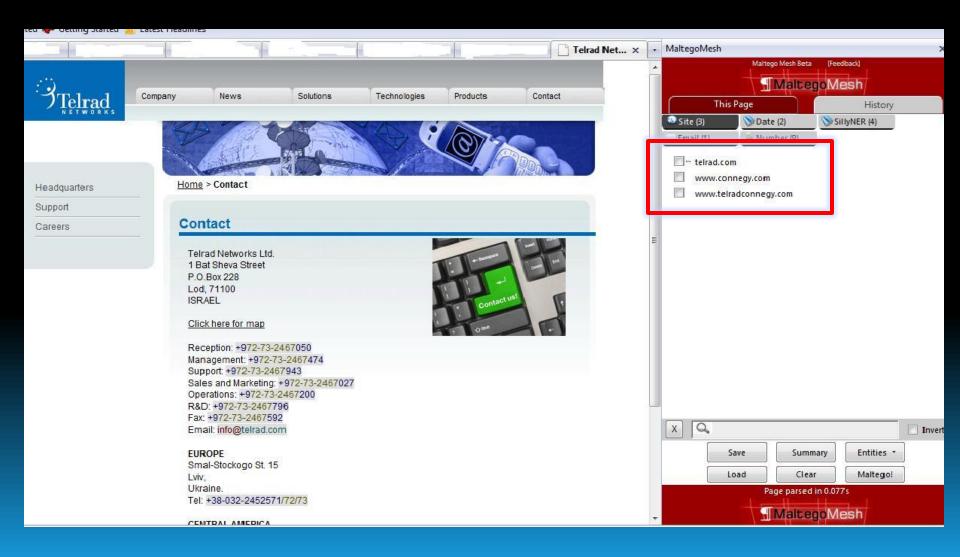
wnage

Find more net blocks





Infrastructure: Using Maltego Mesh



Infrastructure: Useful Tools

- Tools to get it done
 - Maltego
 - ServerSniff.net
 - Robtex.com
 - Clez.net
 - CentralOps.net
 - Rsnake's fierce.pl
 - PassiveRecon Firefox Plugin



PR

Carna



People/Organization Intelligence Gathering

- To create personnel & organization profiles, deliver client-side attacks, or prepare for Social Engineering engagements we gather information on a organization's users or a particular user.
- What information has been placed in the public domain by the company or its users?
- Can I identify key personnel? Can I develop an understanding of corporate culture?

People / Organization: Email Harvesting

Harvest Email Addresses

theHarvester

carnal

theHarvester, Email and user names finder.

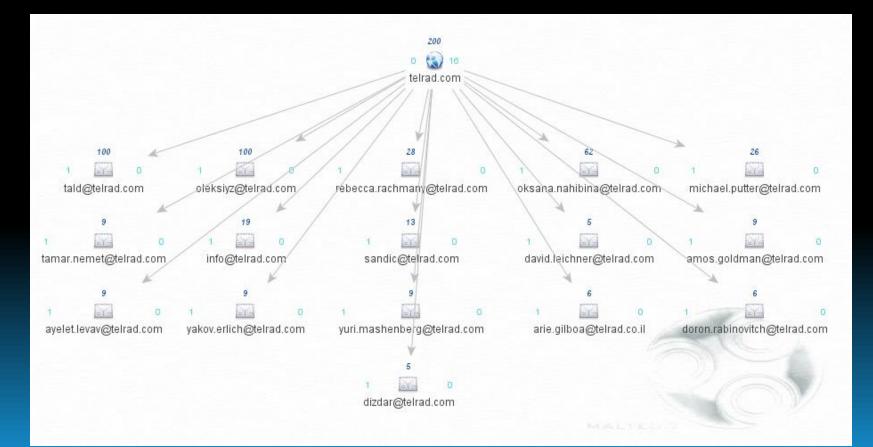
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Harvest Email Addresses

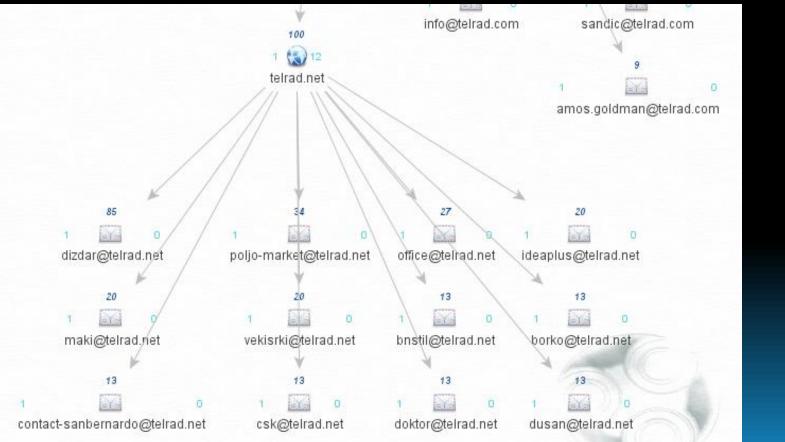


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People / Organization: Email Harvesting

- Harvest Email Addresses
 - Searching for other TLDs was handy.



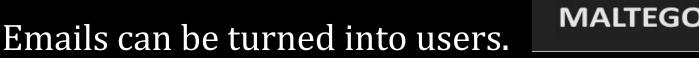
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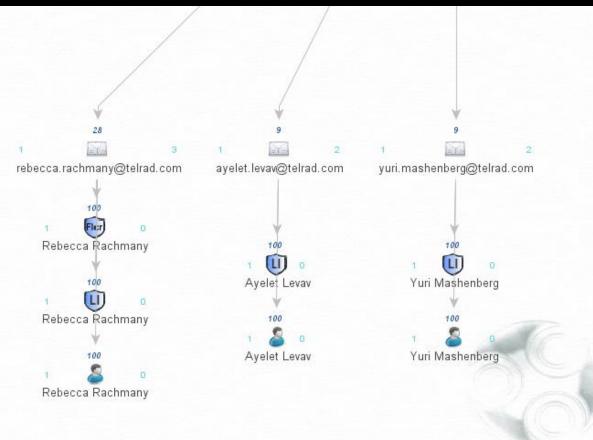
MALTEGO

WNage



People / Organization: Email Harvesting





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People / Organization: Email Harvesting

Which can be turned into new friends and associates.

	People		« Go back to Search Results « Prev
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Oleg Zaslavski Debi Zylbermann Irina Rossovsky Avinoam Kialy Nazar Chornyy			



People / Organization: Email Harvesting Tools

- Tools to get it done
 Maltego
 - theHarvester



PassiveRecon Firefox Plugin

PR



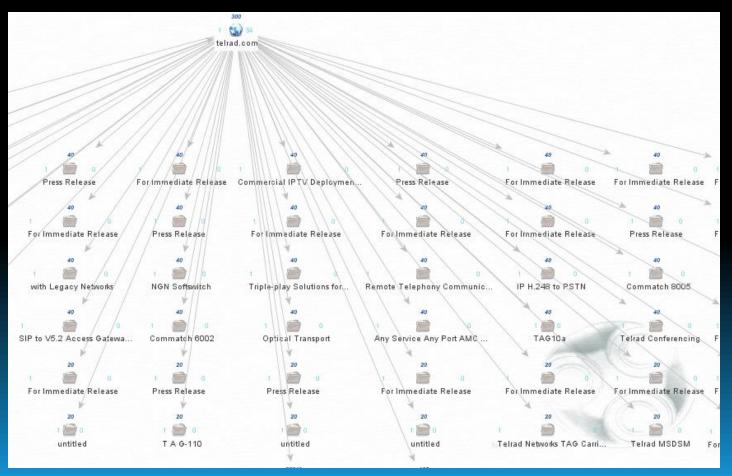
- Documents contain all sort of useful information
 - Useful Extensions.

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Not a full list



Documents contain all sort of useful information





Documents contain all sort of useful information

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People / Organization: Document Metadata

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People / Organization: Document Metadata

Metadata to discover usernames

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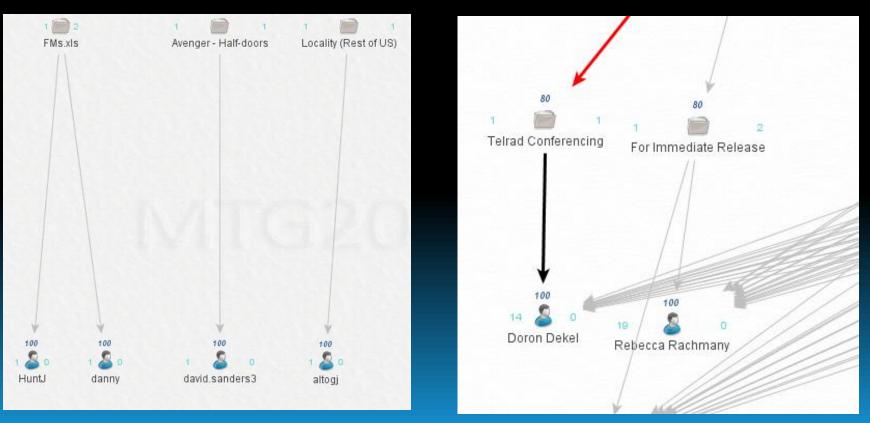
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Metadata to discover usernames



Use Maltego to link usernames to people on the web.





Document - Document MetaInfo

People / Organization: Document Metadata

Metadata to discover versions of software being used.

<MetadataDate>2006:12:13 15:58:28+02:00</MetadataDate> <DocumentID>uuid:b095e9a8-3f48-4118-a777-8bf0e56533e7</DocumentID> Important metadata: <Format>application/pdf</Format> <PageCount>2</PageCount> <Author>Rebecca Rachmany</Author> mimetype - application/msword <MIMEType>application/pdf</MIMEType> language - U.S. English <Subject></Subject> paragraph count - 5 <FileType>PDF</FileType> line count - 21 Jamaian IDS 10 × Manaian ID <Creator>Acrobat PDFMaker 7.0.7 for Word</Creator> title - WINTER DRIVING TIPS EXITIO0IVERSION>7.21</EXITIO0IVERSION word count - 447 <Directory>/tmp</Directory> page count - 1 <FileName>12501871807207.85470054583</FileName> <Producer>Acrobat Distiller 7.0.5 (Windows)</Producer> creator - JoynerD <Company (1)>Telrad Networks Ltd.</Company (1)> ate - 2009-03-03T13:23:007 <Title (1)>Microsoft Word - Telrad_SCI-draft2.doc</Title (1)> generator - Microsoft Office Word <CreateDate>2006:12:13 15:58:01+02:00</CreateDate> <SourceModified>D:20061213135717</SourceModified> last saved by - david.sanders3 <FileModifyDate>2009:08:13 14:13:00</FileModifyDate> <Creator (1)>Rebecca Rachmanv</Creator (1)> creation date - 2009-03-03T13:23:00Z <InstanceID>uuid:271925aa-04f8-4bf0-8dda-5ea16b6e1884</InstanceID> template - Normal.dotm Title> Microsoft Word - Telrad, SCL draft2 doc / Titl <Producer (1)>Acrobat Distiller 7.0.5 (Windows)</Producer (1)> SourceModified (1)>D:20061213135717</SourceModified (1); <FileSize>27 kB</FileSize> Important metadata: <ModifyDate (1)>2006:12:13 15:58:28+02:00</ModifyDate (1)> <Company>Telrad Networks Ltd.</Company> <PDFVersion>1.4</PDFVersion> <Headline></Headline> application/vnd.ms-excel <ModifyDate>2006:12:13 15:58:28+02:00</ModifyDate> <CreateDate (1)>2006:12:13 15:58:01+02:00</CreateDate (1)> - carterm <CreatorTool>Acrobat PDFMaker 7.0.7 for Word</CreatorTool> 2009-07-07T11:44:267 Microsoft Excel denerator richard.Turrow saved by 2000-10-03T19:12:45Z creation date -OK. Cancel

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Office on Windows vs Office on Mac vs OpenOffice

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Issues.

Libextract sux for newer pdfs.

http://www.telrad.com/uploaded/press/Telrad_ArchitecturePatent_PR.pdf

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Important metadata:

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- Ruby + pdf-parse can help us with that problem.
- FOCA too.

Telrad_ArchitecturePatent_PR.pdf

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People / Organization: Doc Metadata Tools

carna

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People / Organization: Organization Profiling

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Vnage

Online tools to find employees of companies

- Most have APIs
 - Write your own tools to script infogathering
 - Write local transforms for Maltego

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Telrad Networks Ltd	Telrad Networks's profile was cre	Telrad Networks is a of areas	a provider of cutting-edge telecommunications solu	tions compliant with the highest	standards in a wide range www.telrad.co.ul	k the second sec
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Website: www.telrad.com		Contact Details Telrad Networks*,	, -, ♦. 116-7198 Vantage Way, Delta, BC V	4G 1K7, Canada*	www.google.com	Telra 3
		Telrad Networks.	Suite 116 7198 Vantage Way, Delta, BC. (60)4) 952-5	www.canpages.c	
		Telrad Networks,	(604) 952-5		canada411.yellowpages.c	
		Telrad Networks,	(604) 952-5		canada411.yellowpages.c	
ummary 🗧 🗖	Key People					
dustry: Telecommunication Equipment		Business Listings Telrad Netw Company Listin	vorks Ltd. Lod \$\$\$ ngs - Goliath		goliath.ecnext.com - Deep Wel	b
elrad Networks has been developing carrier-grade communications quipment for more than half a century. Telrad provides development apabilities that focus on integration of core technologies into	Amir Kandell Executive Vice President and S Marketing Division President	ales and	•			

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People / Organization: Org Profiling Tools

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Handles are awesome and usually unique.

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Handles are awesome and usually unique.



Tweepz 1 - 1 of 1 for carnal0wnage



Chris Gates (carnal0wnage) Evidently security isnt cool but i dont give a f**k Location: NoVA Web: http://carnal0wnage.attackresearch.com

sort by: relevancy | # followers | # following | join date

carnal

followers:	1,161
following:	571
updates:	1,951
refreshed 2 da	ays ago



 Especially if you can turn them into twitter usernames or other social network profiles.

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1	All Transforms	To AffTwitter [this person wrote Tweets to ?] CE TAS
indi303	About the Twitter Affiliation entity	To Person [convert] CE TAS
l		To Tweets [that this person wrote] CE TAS
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	II	

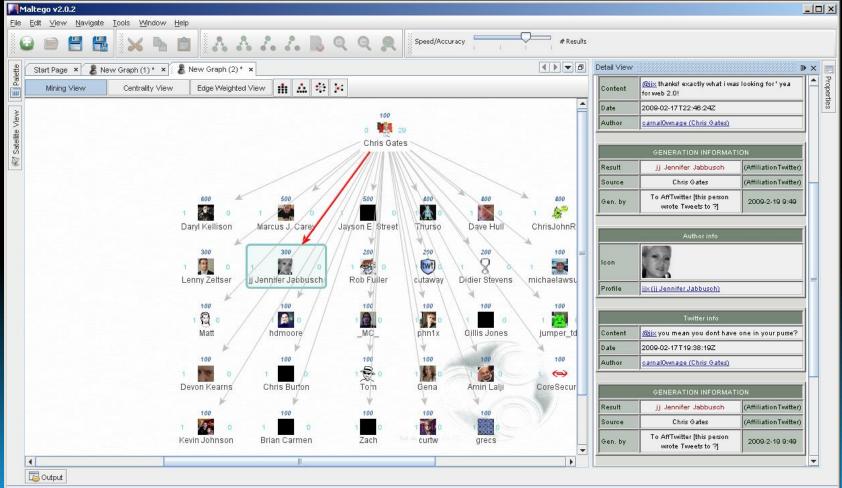


 Then we can see who they write tweets to and receive tweets from.



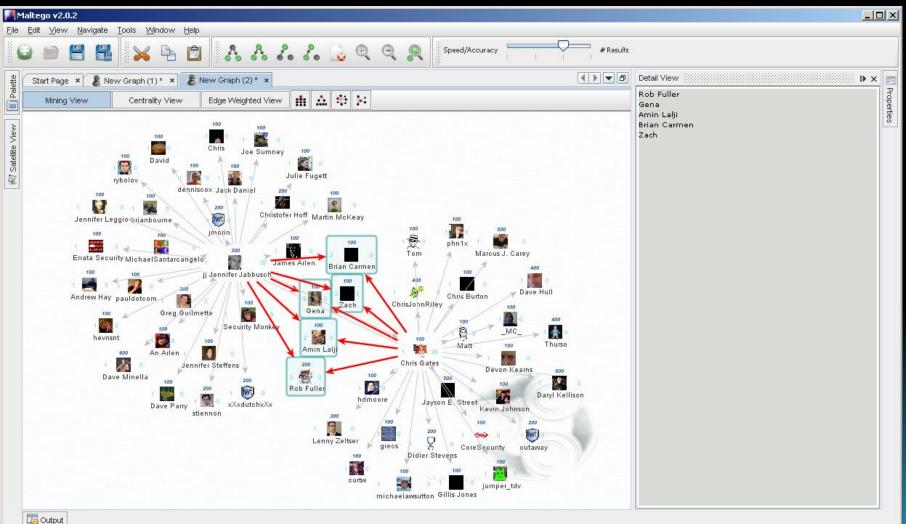


 Then we can see who they write tweets to and receive tweets from.



People / Organization: People Profiling

Then we can see who are common friends.



Tons of information is placed into the public domain.

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weep	Search "bank of ame			E Sign	in with Tv
	Pro tip	b: Click on an avatar to limit the search to that person's followers.			
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		re? Contact dacort [at] tweepsearch.com for more details in order to he hare with five others for \$5. last recorded update about 1 avesome-second ago	lp TweepSea	rch grow.	Reserve
63	@BofA_help / David Knapp	Official Bank of America Twitter rep to help, listen and learn from our		3,034	
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14/2	futurebanking.bankofamerica	unsecured locations. last recorded update 12 days ago	updates:	1,818	
.621	@mschiefmaker / Karen Biehl	Owner of Eli the Celebrity Chihuahua, seen on the MilkBone box, FLN's	followers:	1,709	
Ser.	NYC	Wingman, Queer Eye, Good Morning America, BET's Rip the Runway,	friends:	1,705	3
02	www.TheCelebrityChihuahua.com	Bank of America ads last recorded update 11 days ago	updates:	1,285	2
	@BankOAmericaSux / Bank of	last recorded update 2 days ago	followers:	1,517	
0.0	America Sux		friends:	1,466	
0_0			updates:	925	9
	@DoryanCosta / Doryan Costa	I am a Bank of America Manager, and Internet MarketerHelping You	followers:	5,961	
	Warren, RI	Make Money At Homeand Helping you Deposit It and Keep It Safe :)	friends:	5,717	
	www.InternetLifestyleDreams	last recorded update about 1 hour ago	updates:	269	
	@LynnSaratore / Lynn Saratore	HR Generalist at CDW, previously Sr. Recruiter @ Hewitt and Staffing	followers:	335	
H	Chicago	Manager @ Bank of America last recorded update 20 days ago	friends:	465	
-	www.linkedin.com/in/lynnsar		updates:	78	

Tons of information is placed into the public domain.

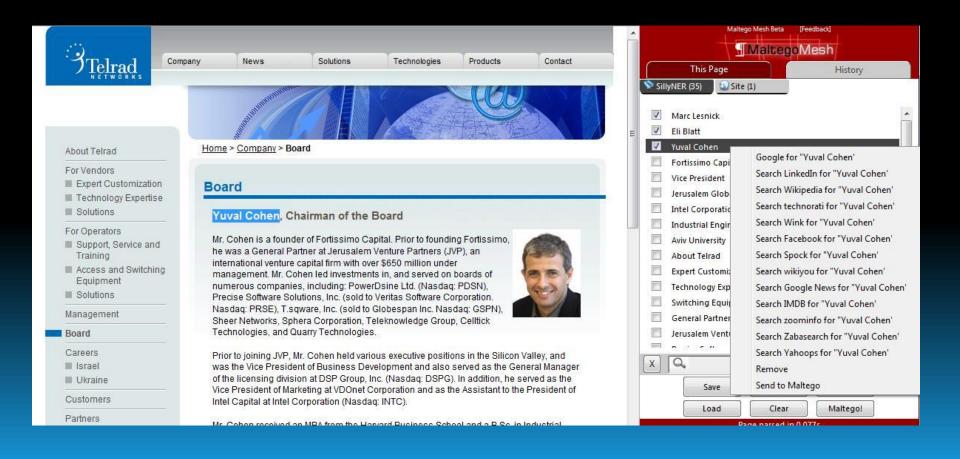
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	Pro tip	: Click on an avatar to limit the search to that person's followers.				
esults: 1	- 20 of 1,118 for cisco.	Sort by: last update 1 screen	name ↓ fo	llowers † frier		
This could be you! (@dacort on Twitter) - Seattle, WA Interested in having your profile here? Contact dacort [at] tweepsearch.com for more details in order to help TweepSearch grow. Reser a keyword for S10 for 30 days, or share with five others for S5. <i>last recorded update about 1 awesome-second ago</i>						
	@Padmasree / Padmasree California	CTO of Cisco last recorded update 3 months ago	followers: friends: updates:	410,345 66		
iliailia cisco	@CiscoSystems / Cisco Systems Silicon Valley blogs.cisco.com/news/	News and info about Cisco, our CEO and execs. I am @John_Earnhardt and am your tourguide on our official Twitter feed. Cisco Support @ http://www.cisco.com/tac last recorded update 12 days ago	followers: friends: updates;	13,506 2,455 1,248		
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Ľ:	@Cisco_X1Concept / Cisco Kuala Lumpur www.x1concept.com/blog	Founder X1Concept Network Marketing and Internet Marketing Fan Health Freak and Supplement Evangelist, Harley Fan, Reader, Listener, Entrepreneur last recorded update 2 days ago	followers: friends: updates:	6,842 7,298 582		
9	@jessicalearning / Jessica Duncan California www.linkedin.com/in/jessica	Social media fan, RPG video game enthusiast, training professional, Cisco employee, Kindle owner, running and fitness addict, and lover of new technology last recorded update 4 days ago	followers: friends: updates:	6,733 6,611 1,238		



Tons of information is placed into the public domain.



- Tools to get it done
 - Maltego
 - Maltego Mesh
 - knowem.com
 - friendscall.me
 - namechk.com
 - usernamecheck.com
 - tweepz.com
 - tweepsearch.com





Friends call me...



carna

ynage



Final Considerations

- If someone doesn't have strong Internet presence can I become them?
 - Create gmail accounts.
 - Register them on Linkedin.
 - Skype/Gtalk/MSN/be them on IRC or SILC.
 - Register them on Facebook/Myspace/Twitter/etc.
 - Create their blog.
- Or can I create a company employee and "make new friends"?

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Up next Chris Nickerson



To tell you what to do with all that IG goodness...

Educate Yourself

- Useful Resources
 - Paterva
 - Maltego. Go Buy It!
 - http://www.paterva.com/web4/index.php/media/presentations
 - Christian Martorella (Edge-Security)
 - http://laramies.blogspot.com/
 - http://www.edge-security.com/presentations.php
 - Larry Pesche
 - Document Metadata, the Silent Killer
 - P2P Information Disclosure
 - Rob Fuller (mubix)
 - http://www.room362.com/



Thank You!

Questions?