

New School Information Gathering

Chris Gates

<http://carnal0wnage.blogspot.com>
<http://www.learnsecurityonline.com>

Carnal0wnage

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CONFIDENTIAL

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POSSIBLE INTELLIGENCE VALUE

ROBERT HENLEY

10



Who Am I?

- Penetration Tester
- LearnSecurityOnline.com
- Security Blogger
- EthicalHacker.net columnist
- Alphabet Soup if you care



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Standard Disclaimer

The standard this is me talking and not my employer disclaimer applies

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Agenda

- New School?
- Open Source Intelligence Gathering (OSINT)
- FierceDNS
- SEAT/Goolag
- Google Mail Harvesters
- Metagoofil
- Online Tools
 - ServerSniff/DomainTools/CentralOps/Clez.net/Robtex/Spoke
- Maltego

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Premises

- Couple of premises to frame the talk
 - Black box approach to info gathering, meaning the customer wants you to find everything about them you can via “open source” methods.
 - Client side and social engineering attacks are going to be used, therefore its critical we gather that client information (emails & phone numbers) for the pentest.

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This is what you get:
baytsp.com

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Questions

- WTF is baytsp.com?
- How many web servers?
- How many mail servers?
- How many name servers?
- IP range/netblocks?
- Location(s)?
- Usernames, phone numbers, email addresses?

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New School?

- New School, just a “new” way of looking at Information Gathering, less just discovering network blocks with whois and more take a “full spectrum” look at your target.
- OSINT, Open Source Intelligence
 - Out on the net for everyone to find, if you know what to look for
 - Domain Names
 - Files containing useful information
 - Email addresses
 - Website Source

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OSINT

- Generally no direct contact with victim's servers OR no non-standard traffic directed toward victim
- End Result?
 - Organization's net blocks, external servers IPs and domain names, internal IP ranges, emails to send phishing attacks to, phone numbers to call, trust relationships with other organizations, & other relevant information for your audit and hopefully identifying exploitable flaws in the target's network

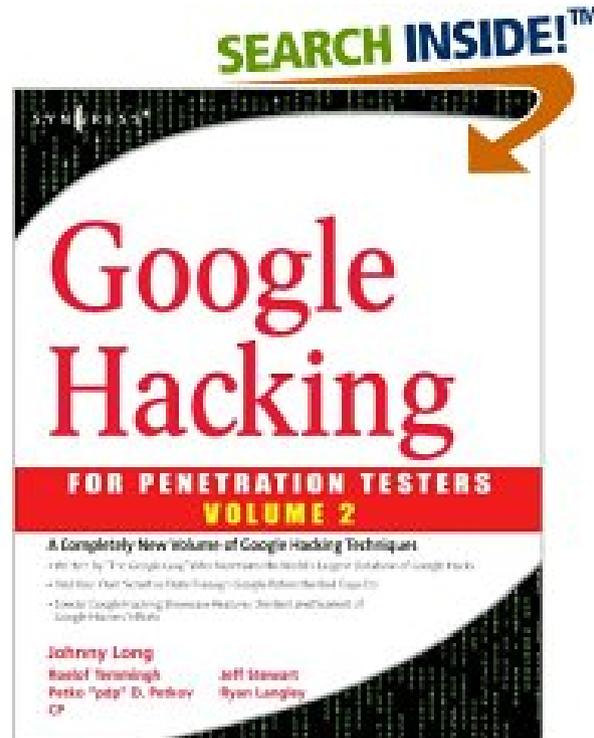
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Isn't that what Google is for?

- Yeah kinda, Google-fu is important but we're not going to talk much about Google hacking, go read the book.



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Verify Web Presence

BayTSP - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://baytsp.com/

The Ethical Hacker... https://www.googl...

track.secure.protect.

Solutions Industry Focus Press Room About Us

SOLUTIONS FOR DIGITAL RIGHTS HOLDERS

Internet Partners Client Solutions Legal & Law Enforcement

Latest News


Mark Ishikawa
 CEO BAYTSP

Nikkei Electronics, 8/19/08: BayTSP offers service that monitors one million minutes of online video daily for copyright infringement, covering the top 12 video sharing sites.

MarketWatch, 8/18/08: BayTSP Content Authentication Platform increases capacity;

Movies Secure your latest releases from pirate distribution with BayTSP.

Television Millions will illegally upload your latest and greatest in television. Protect your IP.

Music We provide the services to stop the distribution of your music.

Software Software applications are downloaded illegally every second. Protect your profits.

Publishing Scanned books, ebooks, and audio books are being downloaded everyday.

Received a take down notice from us?
[Click here >](#)

What we do at BayTSP
 "Tracking-Security-Protection" for your digital assets.

Read the 2007 Internet Piracy Review
[Read now >](#)

Request A Demo

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Verify Web Presence

BayTSP is an innovator in digital copyright, image, trademark, music and text protection. Located in the heart of Silicon Valley, BayTSP offers a revolutionary way for digital content owners to track down their valuable online property, in order to effectively deter its theft and misuse.

<http://www.aboutus.org/Baytsp.com>

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OSINT: Information Gathering & Domain Name Search

- Whois info, NS & AS Reports
- Search using target domain name
 - Target.com
 - and subdomain name
 - Vulnerable.target.com
- Who's handling mail, DNS, net blocks, web hosting, etc

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OSINT: Information Gathering & Key Words

- Use that google-fu!
 - Password
 - Login
 - Target specific key words
 - Database/Secret/yak yak
 - Google dorks
 - Use SEAT/Goolag to audit a specific domain

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OSINT: Information Gathering & File Search

- We're Looking for
 - Network diagrams (.vsd, .jpg, .gif)
 - Databases (.mdb)
 - Papers & documents (.doc, .pdf, .sdw)
 - Presentations (.ppt, .odp)
 - Spreadsheets (.xls, .ods, .sdc)
 - Configuration files (.txt, .rft)
- Thanks metagoofil!

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OSINT: Information Gathering & Email addresses

- Information Gathering & Email addresses
 - Email Harvesting scripts and frameworks
- Information Gathering & Cached Data/Links
 - Archive.org, waybackmachine, Google
- Information Gathering & Source Code
 - Spider the site, look at html source and comments, file paths, file names, scripts used on the site

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Tools of the Trade

Some, not all, plenty of others

Tools grouped by category and less
by an actual order of doing things or
methodology

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Fierce DNS

- <http://ha.ckers.org/fierce/>
- By Rsnake from ha.ckers.org
- “It is meant specifically to locate likely targets both inside and outside a corporate network.”
- Tries your standard DNS tricks but also does some bruteforcing of domain names and tries to throw some intelligence into the searches.
- **Bruteforce only as good as your wordlist.**

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Fierce DNS

- First it queries your DNS for the DNS servers of the target. It then switches to using the target's DNS server.
- Fierce then attempts to dump the SOA records for the domain in the very slim hope that the DNS server that your target uses may be misconfigured (attempts a zone transfer).*
- Once that fails (because it almost always will) it attempts to "guess" names that are common amongst a lot of different companies (hosts file).

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Fierce DNS

- Next, if it finds anything on any IP address it will scan up and down a set amount looking for anything else with the same domain name in it using reverse lookups .
- If it finds anything on any of those it will recursively scan until it doesn't find any more.

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Fierce DNS

```
cg@WPAD:~/evil/enumeration/dns/fierceDNS$ perl fierce.pl -dns baytsp.com
```

```
DNS Servers for baytsp.com:
```

```
ns1.baytsp.net  
ns13.zoneedit.com  
ns2.baytsp.net
```

```
Trying zone transfer first...
```

```
Testing 216.133.204.226  
Request timed out or transfer not allowed.  
Testing 66.223.40.121  
Request timed out or transfer not allowed.  
Testing 216.132.49.229  
Request timed out or transfer not allowed.
```

```
Unsuccessful in zone transfer (it was worth a shot)  
Okay, trying the good old fashioned way... brute force
```

```
Checking for wildcard DNS...
```

```
Nope. Good.
```

```
Now performing 3149 test(s)...
```

```
216.133.204.235 dmz.baytsp.com  
216.133.204.231 bayreports.baytsp.com  
216.133.204.229 ftp.baytsp.com  
216.133.204.224 dmz.baytsp.com  
216.133.204.225 baytsp-gw.baytsp.com  
216.133.204.232 cat-3000.baytsp.com  
216.133.204.233 cims4.baytsp.com  
216.133.204.234 dmz.baytsp.com  
216.133.204.236 dmz.baytsp.com  
216.133.204.239 dmz.baytsp.com  
216.133.204.240 tc2.baytsp.com  
216.133.204.241 dmz.baytsp.com
```

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Fierce DNS

```
216.133.204.246 dmz.baytsp.com
216.133.204.247 dmz.baytsp.com
216.133.204.248 dmz.baytsp.com
216.133.204.249 dmz.baytsp.com
216.133.204.250 dmz.baytsp.com
216.133.204.251 dmz.baytsp.com
216.133.204.252 dmz.baytsp.com
216.133.204.253 dmz.baytsp.com
216.133.204.254 dmz.baytsp.com
216.133.204.255 dmz.baytsp.com
216.133.204.240 demo.baytsp.com
216.133.204.229 dl.baytsp.com
216.133.204.227 mail.baytsp.com
216.133.221.24 pop.baytsp.com
216.132.49.228 vpn.baytsp.com
206.135.194.198 w3.baytsp.com
216.133.221.15 webmail.baytsp.com
68.178.254.204 www.baytsp.com
68.178.254.204 .baytsp.com
```

Subnets found (may want to probe here using nmap or unicornscan):

- 206.135.194.0-255 : 1 hostnames found.
- 216.132.49.0-255 : 1 hostnames found.
- 216.133.204.0-255 : 29 hostnames found.
- 216.133.221.0-255 : 2 hostnames found.
- 68.178.254.0-255 : 2 hostnames found.

Done with Fierce scan: <http://ha.ckers.org/fierce/>
Found 35 entries.

Have a nice day.

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Search Engine Tools

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SEAT (Search Engine Assessment Tool)

- By Midnight Research Labs
- <http://midnightresearch.com/projects/search-engine-assessment-tool/>
- “SEAT uses information stored in search engine databases, cache repositories, and other public resources to scan a site for potential vulnerabilities. It’s multi-threaded, multi-database, and multi-search-engine capabilities permit easy navigation through vast amounts of information with a goal of system security assessment.”
- Think automated GHDB on steroids 😊

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SEAT (Search Engine Assessment Tool)

SEAT: Search Engine Assessment Tool

Preparation Execution Analysis

File Targets Queries Help

baytsp.com

Targets

- baytsp.com

Queries

- inurl:ospfd.conf intext:password -sample -test -tutorial -download
- intitle:"Welcome Site/User Administrator" "Please
- inurl:"nph-proxy.cgi" "Start browsing through this CGI-based proxy"
- inurl:ipsec.conf -intitle:manpage
- intitle:"lantronix web-manager"
- Admin intitle:"eZ publish administration"
- intitle:index.of haccess.ctl
- inurl:"/becommunity/community/index.php?pageurl="
- "Web Control Panel" "Enter your password here"
- inurl:"messageboard/Forum.asp?"

Description

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SEAT (Search Engine Assessment Tool)

SEAT: Search Engine Assessment Tool

Preparation Execution Analysis

File Targets Queries Search Engines Mined Help

| Targets | Queries | Search Engines |
|--|--|---|
| <input checked="" type="checkbox"/> baytsp.com | <input checked="" type="checkbox"/> inurl:inurl:ipsec.secrets -history -bugs | <input checked="" type="checkbox"/> AltaVista |
| | <input checked="" type="checkbox"/> index.of.secure | <input checked="" type="checkbox"/> AllTheWeb |

| Mined | Results |
|-------|---|
| | http://av.rds.yahoo.com/_ylt=A0geunb0_N1IhBwBNypVDqMX;_ylu http://av.rds.yahoo.com/_ylt=A0geunb0_N1IhBwBNipVDqMX;_ylu http://av.rds.yahoo.com/_ylt=A0geunbGBd5IciABM0ZVDqMX;_ylu |

Statistics

Hits: 4
Mined: 0
Results: 3

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Goolag

- Cult of Dead Cow's Goolag
- <http://www.goolag.org/download.html>

GoolagScanner Beta - (1418 dorks loaded)

File Edit Scan Tools Help

Available Dorks

- Advisories and Vulnerabilities (216)
- Error Messages (68)
- Files containing juicy info (228)
- Files containing passwords (137)
- Files containing usernames (15)
- Footholds (21)
- Pages containing login portals (232)
- Pages containing network or vulnerability data (59)
- Sensitive Directories (60)
- Sensitive Online Shopping Info (9)
- Various Online Devices (202)
- Vulnerable Files (54)
- Vulnerable Servers (46)
- Web Server Detection (71)

Host: Scan Stop

Dork Info

"Powered by UPB" (b 1.0)(1.0 final)(Public Beta 1.0b)
"Powered by UPB" (b 1.0)(1.0 final)(Public Beta 1.0b)

dork: "Powered by UPB" (b 1.0)(1.0 final)(Public Beta 1.0b)

this is a very old vulnerability discovered by Xanthic, can't find it in GHDB and I am surprised of how it still works...

Results

| Status | Dork | URL found |
|---------|--------------------------------------|---|
| Scan... | "Powered by PHP Advanced ... | ... |
| Scan... | "powered by php icalendar" -i... | ... |
| Scan... | "powered by php photo album... | ... |
| Scan... | "powered by PhpBB 2.0.15" -... | ... |
| Scan... | "Powered By phpCOIN 1.2.2" | ... |
| Scan... | "Powered by PHP-Fusion v6.... | ... |
| Scan... | "powered by phplist" inurl:"lis... | ... |
| Blocked | "Powered by PowerPortal v1.3" | http://sorry.google.com/sorry/?continue=http://www.google.com/search?q=%2 |
| Scan... | "powered by pppblog v 0.3.(.)" | ... |
| Scan... | "powered by runcms" -runcms... | ... |
| Scan... | "powered by sblog" +"version... | ... |
| Scan... | "Powered by sendcard - an a... | ... |
| Scan... | "Powered by Simplog" | ... |
| Scan... | "powered by sphider" -exploit ... | ... |
| Scan... | "powered by ubbthreads" | ... |
| Scan... | "Powered by UPB" (b 1.0)(1.... | ... |

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Email Harvesting

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Google Mail Harvesters

- Goog-mail.py
- theHarvester.py
- There are plenty others
- Consider changing the regex to search for different @ variations: [at] <at> (at)

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Google Mail Harvesters

- Goog-mail.py

```
cg@WPAD:~/evil/enumeration/google$ python goog-mail.py baytsp.com
```

```
+++++
+ Google Web & Group Results:
+++++
```

```
copyright-compliance@baytsp.com
VIACOM@baytsp.com
info@baytsp.com
se...@baytsp.com
ellio...@baytsp.com
...paramount-pictures@baytsp.com
jimg@baytsp.com
andr...@baytsp.com
eve...@baytsp.com
YaKdnWAJN8-V-8vdRVn...@baytsp.com
seanr@baytsp.com
ma...@baytsp.com
compliance@baytsp.com
```

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Google Mail Harvesters

- theHarvester.py
- <http://www.edge-security.com/theHarvester.php>

```
cg@WPAD:~/evil/enumeration/google/theHarvester$ python theHarvester.py -d baytsp.com -l 1000 -b google
```

```
*****
*TheHarvester Ver. 1.4          *
*Coded by laramies             *
*Edge-Security Research        *
*cmartorella@edge-security.com *
*****
```

```
Searching for baytsp.com in google :
```

```
=====
```

```
Total results: 4410
Limit: 1000
Searching results: 0
Searching results: 100
Searching results: 200
```

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Google Mail Harvesters

encontreGoogleharvester results:

marki@baytsp.com
evelyn@baytsp.com
VIACOM@baytsp.com
compliance@baytsp.com
investor@baytsp.com
dmca@baytsp.com
andreac@baytsp.com
copyright-compliance@baytsp.com
elliottk@baytsp.com
W_6dnX21wqTwt8_dRVn-hQ@baytsp.com
seanr@baytsp.com
noc@baytsp.com
paramount-pictures@baytsp.com
info@baytsp.com
BoGdnd2cesf37x7eRVn-tA@baytsp.com
baytsp.com
QZ0dnYUwQpCYmPPd4p2dnA@baytsp.com
...paramount-pictures@baytsp.com
jimg@baytsp.com
ktWdnQ9AD6NnU0HeRVn-pQ@baytsp.com
Paramount.comlawrencel@baytsp.com
steves@baytsp.com
sarahb@baytsp.com
tracieg@baytsp.com
Marki@baytsp.com

Car

Total accounts: 25

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Document Metadata Extraction

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Metagoofil

- Meta-what???
- MetaGoofil - Metadata analyzer, information gathering tool.
- Created by Christian Martorella of Edge Security.
- <http://www.edge-security.com/metagoofil.php>
- “Metagoofil is an information gathering tool designed for extracting metadata of public documents (pdf,doc,xls,ppt,odp,ods) available in the target/victim websites.

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Metagoofil

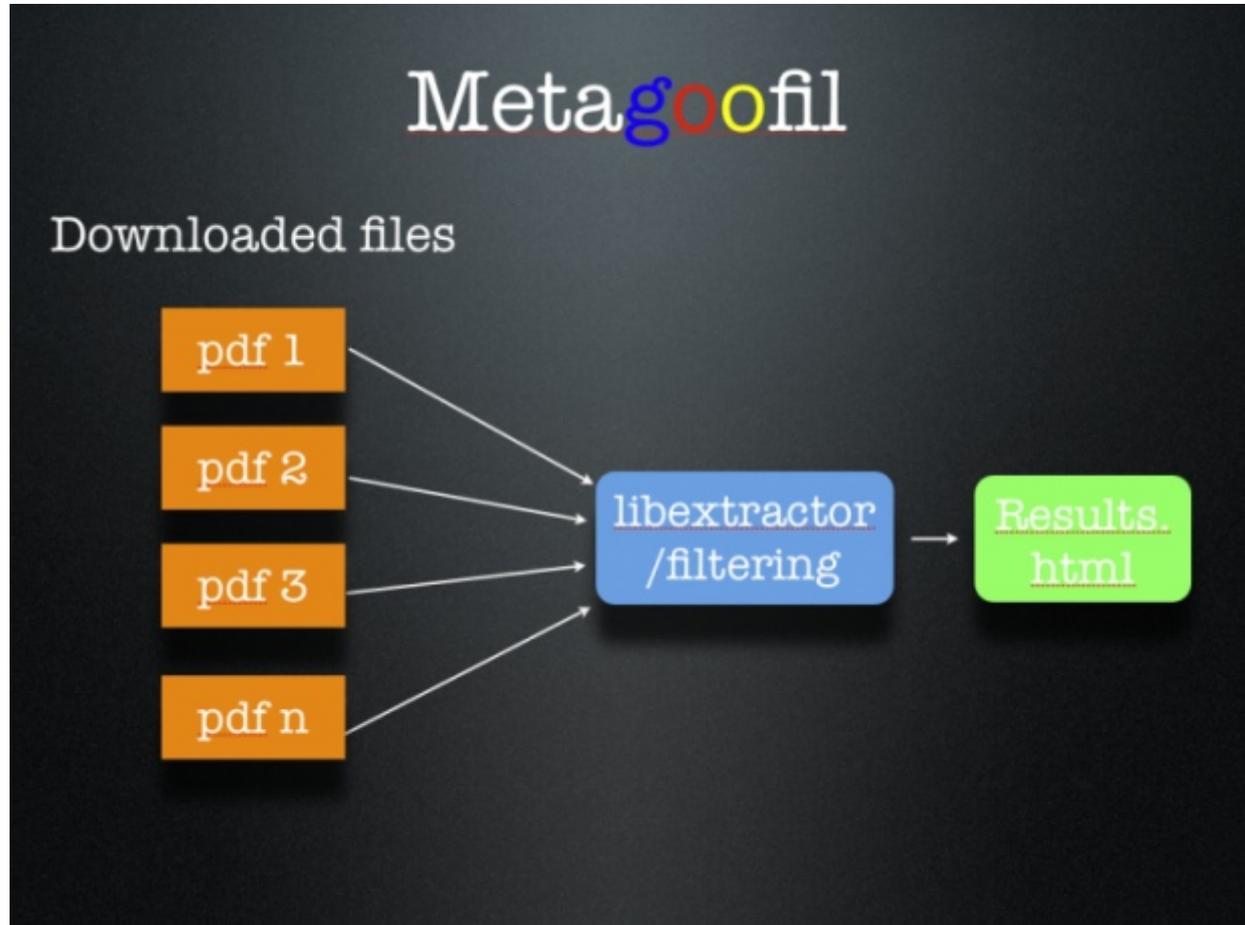
- “It will generate a html page with the results of the metadata extracted, plus a list of **potential usernames** and path disclosure, can be useful for preparing a **bruteforce attack** on open services like ftp, pop3, web applications, vpn, etc.”

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Metagoofil



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Metagoofil

```
cg@WPAD:~/evil/info-gathering/metagoofil/metagoofil-1.4a$ python metagoofil.py -  
d baytsp.com -l 1000 -f all -o baytsp-all.html -t baysp-files
```

```
*****  
*MetaGooFil Ver. 1.4a *  
*Coded by Christian Martorella *  
*Edge-Security Research *  
*cmartorella@edge-security.com *  
*****
```

```
[+] Command extract found, proceeding with leeching  
[+] Searching in baytsp.com for: pdf  
[+] Total results in google: 3  
[+] Limit: 3  
[+] Searching results: 0  
    [ 1/3 ] http://www.baytsp.com/pressroom/BayTSNTTpressrelease.pdf  
    [ 2/3 ] http://www.baytsp.com/marketing/CAP_Datasheet.pdf  
    [ 3/3 ] http://www.baytsp.com/pdf/SampleNotices2007.pdf  
[+] Searching in baytsp.com for: doc  
[+] Total results in google: 0  
[+] Searching in baytsp.com for: xls  
[+] Total results in google: 0  
[+] Searching in baytsp.com for: ppt
```

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Metagoofil

Total authors found (potential users):

QuarkXPress(R) 7.01
QuarkXPress(tm) 6.5
Acrobat PDFMaker 5.0 for Word
PSCRIPT.DRV Version 4.0
QuarkXPress(R) 7.0
Safenet Inc.
Tim Wheatcroft
jtabor
Mykotronx
JTABOR
JT
royals
LVXN
Grace
Season Ji
Michael
mshi
Mary Ann Burns
maburns
nnamazi
Dick Dienna
Melanie Maclin
Andy Gromada
Rwang
Andy Wang
Royals Wang
Cheryl Lai

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Metagoofil

Local copy [Open](#)

Important metadata:

```
mimetype - application/msword
language - U.S. English
paragraph count - 7
line count - 28
last saved by - Dick Dienna
character count - 3363
template - Normal.dot
creation date - 2008-02-13T18:26:00Z
title - Company Name
word count - 590
page count - 1
creator - Melanie Maclin
date - 2008-02-13T18:26:00Z
generator - Microsoft Office Word
```

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Why Metadata?

- Metadata can:
- Reveal the creator of a document, and even a possible **network username** or derive naming convention.
- Reveal the application that created the document.
- Reveal the **version** of the software that created the document.
- Reveal creation date. Document was created recently with vulnerable version.
- **We now have possible usernames, applications used by those individuals and the software versions. Now we can deliver a directed client side attack for something installed in the enterprise.**

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Why Metadata?

- Also try running your word documents through The Revisionist by Michael Zalewski
- <http://lcamtuf.coredump.cx/strikeout/>
- The Revisionist can pull out deleted comments and text if the “track changes” had been used and dump the document with deleted text to an HTML file.

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On-line Tools

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ServerSniff.net

- <http://serversniff.net/>
- NS/MX Reports
- AS Reports
- Subdomains
- TLDs
- Hostnames on an IP
- Domains on webserver
- Web Tools
- HTML Comments
- HTML Code
- SSL Certificate Info
- Links within page
- Web Server Headers

CarnalOwne

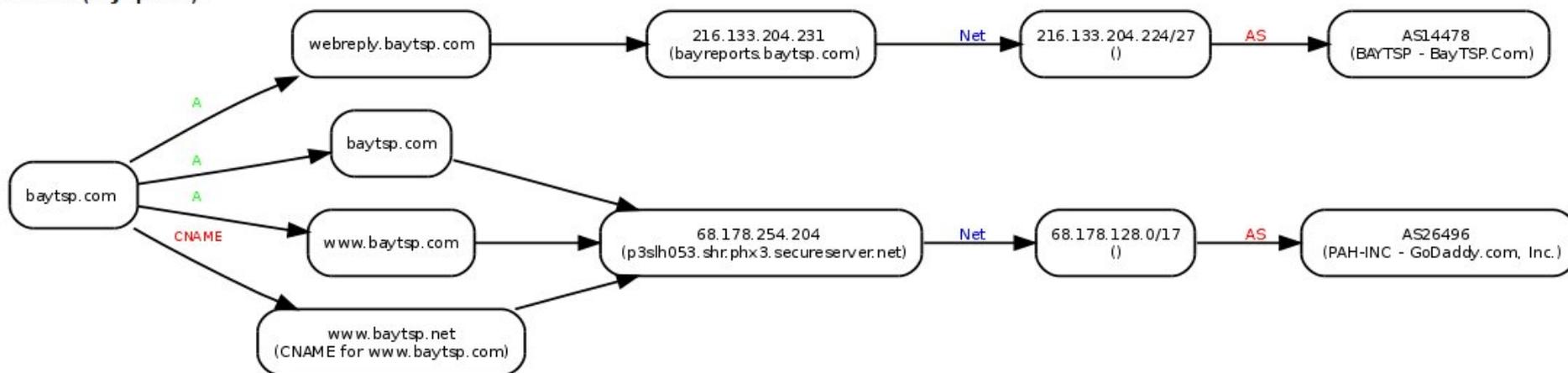
11/10/94
Classified by 57628 [REDACTED] b7c
Declassify on: OADR
CA# 94-1720 CRR



ServerSniff.net

- <http://serversniff.net/>

Hostinfo (baytsp.com):



This Domain belongs to top-leveldomain **com**.

Registration-Data for this domain may be found on whois-server: whois.internic.net You might query whois-information for this domain [here](#)

You might also be interested in a [DNS-Report for baytsp.com](#)

You might also be interested in these AS-Reports:

- [AS-Report for AS26496](#)
- [AS-Report for AS14478](#)

You might also be interested in these Domain- and DNS-Reports:

- [Domain-Report for baytsp.com](#) | [DNS-Report for baytsp.com](#)

CarnalOwne

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 CA# 94-1720 CRR b7c



ServerSniff.net

Domains on Nameserver

Shows other domains a nameserver is authoritative for.
Please be patient - especially on huge nameserver this might take a while...

Please enter a domainname or nameserver to lookup:

Optional: Show only Domainnames containing:

baytsp.com has more than one nameserver, which is good! We tried to check the primary NS (**ns2.baytsp.net**).
Use these links to find out sister-domains hosted on the domain's other nameservers:

- [-->ns2.baytsp.net](#)
- [-->ns13.zoneedit.com](#)
- [-->ns1.baytsp.net](#)

Checking for domains hosted on ns2.baytsp.net.... be patient...

- 1 [\[nscat\] \[dnr\] \[nsr\] acuityventures.com](#) [www](#)
- 2 [\[nscat\] \[dnr\] \[nsr\] copyrightguardian.net](#) [www](#)
- 3 [\[nscat\] \[dnr\] \[nsr\] assetscore.com](#) [www](#)
- 4 [\[nscat\] \[dnr\] \[nsr\] baytsp.com](#) [www](#)
- 5 [\[nscat\] \[dnr\] \[nsr\] copyright-compliance.com](#) [www](#)
- 6 [\[nscat\] \[dnr\] \[nsr\] copyrightspider.net](#) [www](#)
- 7 [\[nscat\] \[dnr\] \[nsr\] assetscore.net](#) [www](#)
- 8 [\[nscat\] \[dnr\] \[nsr\] ee-world.com](#) [www](#)
- 9 [\[nscat\] \[dnr\] \[nsr\] baytsp.net](#) [www](#)
- 10 [\[nscat\] \[dnr\] \[nsr\] copyrightspider.com](#) [www](#)
- 11 [\[nscat\] \[dnr\] \[nsr\] copyright-guardian.com](#) [www](#)
- 12 [\[nscat\] \[dnr\] \[nsr\] trademarkspider.com](#) [www](#)

[Add this NS to our Research-Query \(might take a few hours until results are visible!\)](#)

C a r n a l O w n a g e

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CA# 94-1720 CRR



DomainTools.com

- <http://www.domaintools.com/>



Wildcard search of all current/deleted/expired whois domains.
Domain Suggestions Engine serves over 10 Billion suggestions a year.

 DomainTools Live Auction closing NOW! [Bid Now!](#)

[Whois](#) | [Suggestions](#) | [Domain Search](#) | [At Auction](#) | [For Sale](#) | [DNS Tools](#)

Whois Lookup:

 **DOMAIN ROUNDTABLE CONFERENCE**
"Welcome to The New Domain Industry"

Do you own high-quality generic domains? [List them](#) in the April 21st DomainTools Live Auction at the Domain Roundtable Conference in San Francisco. Want to ensure your domain is listed? [Register now](#) for the conference - every attendee has a guaranteed-acceptance slot of one domain in the Live Auction.

- [Sign up for the Roundtable.](#)

Our Latest Blog Post: [DomainTools Live Auction](#) - 9 comments

 [More Tools and Services](#)
Complete collection of all tools.

 [Domain History](#)
Whois history database.

 [Mark Alert](#)
Alerts when a domain uses my trademark.

 [Live reports on web hosting companies](#)
Detailed uptime reports on providers

 [Name Intelligence Awards](#)
The 2007 awards are out, see who won.

 [Reverse IP](#)
Patent pending reverse IP search.

 [DNS Tools](#)
DNS stuff, whois, traceroute, and ping.

 [Members Area](#)
Modify account settings and options.

 [Name Server Spy](#)
Follow the transfers of a name server.

 [Domain Monitor](#)
Free tool to monitor all my domains.

 [Typo Generator](#)
Find Domain Typos on any Domain.

 [Whois Applications and Toolbars](#)
Google toolbar add-on and other applications.

CarnalOwne

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DomainTools.com

http://whois.domaintools.com/baytsp.com

The Ethical Hacker... https://www.googl...

baytsp.com Baytsp.com - Bay tsp

Registrar Status: [clientDeleteProhibited](#)

Registrar Status: [clientRenewProhibited](#)

Registrar Status: [clientTransferProhibited](#)

Registrar Status: [clientUpdateProhibited](#)

Name Server: NS1.BAYTSP.NET (has [33 domains](#))

Name Server: NS13.ZONEEDIT.COM (has [186,668 domains](#))

Name Server: NS2.BAYTSP.NET (has [33 domains](#))

Whois Server: whois.godaddy.com

Server Data

IP Address: 68.178.254.204 [W](#) [R](#) [P](#) [D](#) [T](#)

IP Location: - Arizona - Scottsdale - Godaddy.com Inc

Response Code: 200

Domain Status: Registered And Active Website

DomainTools Exclusive

Registrant Search: "Domains by Proxy, Inc." was found in about 7,226,158 other domains

Email Search: baytsp.com@domainsbyproxy.com is associated with about 1 domains

Registrar History: [1 registrar](#)

NS History: [3 changes](#) on 4 unique name servers over 6 years.

IP History: [4 changes](#) on 4 unique name servers over 4 years.

Whois History: [141 records](#) have been archived since 2001-12-31.

Reverse IP: [3,482 other sites](#) hosted on this server.

Monitor Domain: [Set Free Alerts on baytsp.com](#)

Done

Carnal O w n a g e

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DomainTools.com

- Hosting history: Track previous web hosts and hosting providers
- Domain history: viewing contact information before it was privatized
- Registrant Alert: Find new registrations by someone
- Registrant Search: Find all domains someone owns
- Links to Wikipedia references
- Best/Most tools on site are for pay :-)

C a r n a l O w n a g e

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CentralOps.net

- <http://centralops.net/co/>

CentralOps.net *Advanced online Internet utilities*

Utilities

- Domain Dossier
- Domain Check
- Email Dossier
- Browser Mirror

- Ping
- Traceroute
- Nslookup
- AutoWhois
- TcpQuery
- AnalyzePath

Hosting metrics

- Shared hosting
- VPS hosting
- Email hosting
- Dedicated hosting

Domain Dossier Investigate domains and IP addresses

domain or IP address

- domain whois record
- DNS records
- traceroute
- network whois record
- service scan

go

user: 12.187.158.130 [anonymous] 49/50
[log in](#) | [get account](#)

CentralOps.net

New: See [daily test results](#) of online hosting providers.

Address lookup

canonical name **baytsp.com.**

aliases

addresses **68.178.254.204**

Domain Whois record

Queried **whois.internic.net** with "dom baytsp.com"...

Whois Server Version 2.0

V A Y U A I O W U A S C

REF ID: A51218
 CA# 94-1720 CRR

b7c



CentralOps.net

Utilities

- Domain Dossier
- Domain Check
- Email Dossier
- Browser Mirror
- Ping
- Traceroute
- NsLookup
- AutoWhois
- TcpQuery
- AnalyzePath

Hosting metrics

- Shared hosting
- VPS hosting
- Email hosting
- Dedicated hosting

DNS records

| name | class | type | data | time to live |
|-----------------------------|-------|------|------------------------------------|---------------------|
| baytsp.com | IN | SOA | server: ns1.baytsp.net | 86400s (1.00:00:00) |
| | | | email: noc.baytsp.net | |
| | | | serial: 2008090901 | |
| | | | refresh: 28800 | |
| | | | retry: 14400 | |
| | | | expire: 3600000 | |
| minimum ttl: 86400 | | | | |
| baytsp.com | IN | TXT | v=spf1 mx include:baytsp.net -all | 86400s (1.00:00:00) |
| baytsp.com | IN | MX | preference: 10 | 86400s (1.00:00:00) |
| | | | exchange: mail.baytsp.net | |
| baytsp.com | IN | A | 68.178.254.204 | 86400s (1.00:00:00) |
| baytsp.com | IN | NS | ns13.zoneedit.com | 86400s (1.00:00:00) |
| baytsp.com | IN | NS | ns1.baytsp.net | 86400s (1.00:00:00) |
| baytsp.com | IN | NS | ns2.baytsp.net | 86400s (1.00:00:00) |
| 204.254.178.68.in-addr.arpa | IN | PTR | p3slh053.shr.phx3.secureserver.net | 3600s (01:00:00) |

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CentralOps.net

| | | | | | |
|----|----|----|----|-----------------|--|
| 11 | 27 | 27 | 27 | 208.109.112.142 | ip-208-109-112-142.ip.secureserver.net |
| 12 | 26 | 27 | 27 | 216.69.188.33 | ip-216-69-188-33.ip.secureserver.net |
| 13 | 27 | 27 | 27 | 68.178.254.204 | p3slh053.shr.phx3.secureserver.net |

Trace complete

Service scan

FTP - 21 220----- Welcome to Pure-FTPd [privsep] [TLS] -----
 220-You are user number 4 of 50 allowed.
 220-Local time is now 07:52. Server port: 21.
 220-This is a private system - No anonymous login
 220 You will be disconnected after 3 minutes of inactivity.
 220 Logout.

SMTP - 25 Error: TimedOut

HTTP - 80 HTTP/1.1 200 OK
 Date: Sat, 27 Sep 2008 14:53:01 GMT
 Server: Apache
 Connection: close
 Content-Type: text/html

POP3 - 110 Error: TimedOut

IMAP - 143 Error: TimedOut

-- end --

[URL for this output](#) | [return to CentralOps.net](#), a service of Hexillion

Utilities

- Domain Dossier
- Domain Check
- Email Dossier
- Browser Mirror

- Ping
- Traceroute
- Nslookup
- AutoWhois
- TcpQuery
- AnalyzePath

Hosting metrics

- Shared hosting
- VPS hosting
- Email hosting
- Dedicated hosting

CarnalOwNage

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CentralOps.net

Utilities

- Domain Dossier
- Domain Check
- Email Dossier
- Browser Mirror

- Ping
- Traceroute
- NsLookup
- AutoWhois
- TcpQuery
- AnalyzePath

Hosting metrics

- Shared hosting
- VPS hosting
- Email hosting
- Dedicated hosting

SMTP session

```
[Contacting mail.baytsp.net [216.133.204.227]...]
[Connected]
220 mail.baytsp.net ESMTX XWall v3.42
EHLO hexillion.com
250-mail.baytsp.net
250-ENHANCEDSTATUSCODES
250-ETRN
250-DSN
250-8BITMIME
250-PRIORITY
250-CHUNKING
250-SIZE
250-XBDATA
250 XXWALL30
VRFY jimg
553 User ambiguous
RSET
250 2.0.0 ok
EXPN jimg
502 5.5.1 command not implemented
RSET
250 2.0.0 ok
MAIL FROM:<HexValidEmail@hexillion.com>
250 2.1.0 originator <HexValidEmail@hexillion.com> ok
RCPT TO:<jimg@baytsp.com>
451 4.7.1 message delayed, see http://www.greylisting.org ; Please try again later
[Unfavorable reply code, cannot continue]
RSET
250 2.0.0 ok
QUIT
```

CarnalOwne

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CA# 94-1720 CRR



CentralOps.net

- Email Verification (failure)

CentralOps.net *Advanced online Internet utilities*

Utilities

- Domain Dossier
- Domain Check
- Email Dossier
- Browser Mirror
- Ping
- Traceroute
- Nslookup
- AutoWhois
- TcpQuery
- AnalyzePath

Hosting metrics

- Shared hosting
- VPS hosting
- Email hosting
- Dedicated hosting

Email Dossier Investigate email addresses

email address

try vrfy and expn

source code: [view](#) | [download](#)

Validating **20sws9001@nyp.org...**

Validation results

confidence rating: **0 - Bad address**
 error : **Recipient rejected**
 canonical address: **<20sws9001@nyp.org>**

MX records

| preference | exchange | IP address (if included) |
|------------|--------------------------|--------------------------|
| 10 | mail-gw2.med.cornell.edu | |
| 20 | mail-gw1.med.cornell.edu | |
| 30 | smtp-gw2.med.cornell.edu | |

SMTP session

```
[Resolving mail-gw2.med.cornell.edu...]
[Contacting mail-gw2.med.cornell.edu [140.251.3.2]...]
[Connected]
220 mail-gw2.med.cornell.edu -- Server ESMTP (SMTP Server)
EHLO hexillion.com
250-mail-gw2.med.cornell.edu
250-8BITMIME
250-PIPELINING
250-CHUNKING
250-DSN
250-ENHANCEDSTATUSCODES
250-HELP
250-XLOOP AA7D71C0C3870C2D913E915653235725
250-ETRN
250-NO-SOLICITING
250 SIZE 102400000
VRFY 20sws9001
252 2.5.0 Possible local address <20sws9001@mail-gw2.med.cornell.edu>
RSET
250 2.5.0 Ok.
EXPN 20sws9001
550 5.7.2 EXPN command has been disabled.
RSET
250 2.5.0 Ok.
MAIL FROM:<HexValidEmail@hexillion.com>
250 2.5.0 Address Ok.
RCPT TO:<20sws9001@nyp.org>
550 5.1.1 unknown or illegal alias: 20sws9001@nyp.org
[Address has been rejected]
RSET
250 2.5.0 Ok.
```

CarnalOwne

11/10/94
 Classified by *57628*
 Declassify on: OADR
 CA# 94-1720 CRR b7c



CentralOps.net

- Email Verification (success)

Email Dossier

Investigate email addresses

email address

try vrfy and expn

source code: [view](#) | [download](#)

CentralOps.net

Validating **nursingsce@nyp.org**...

Validation results

confidence rating: **3 - SMTP**
 The email address passed this level of validation without an error. However, it is not guaranteed to be a good address. [more info](#)

canonical address: **<nursingsce@nyp.org>**

MX records

| preference | exchange | IP address (if included) |
|------------|--------------------------|--------------------------|
| 10 | mail-gw2.med.cornell.edu | [140.251.3.2] |
| 20 | mail-gw1.med.cornell.edu | [140.251.3.44] |
| 30 | smtp-gw2.med.cornell.edu | [157.139.3.45] |

SMTP session

```
[Contacting mail-gw2.med.cornell.edu [140.251.3.2]...]
[Connected]
220 mail-gw2.med.cornell.edu -- Server ESMTA (SMTP Server)
EHLO hexillion.com
250-mail-gw2.med.cornell.edu
250-8BITMIME
250-PIPELINING
250-CHUNKING
250-DSN
250-ENHANCEDSTATUSCODES
250-HELP
250-XLOOP AA7D71C0C3870C2D913E915653235725
250-ETRN
250-NO-SOLICITING
250 SIZE 102400000
VRFY nursingsce
252 2.5.0 Possible local address <nursingsce@mail-gw2.med.cornell.edu>
RSET
250 2.5.0 Ok.
EXPN nursingsce
550 5.7.2 EXPN command has been disabled.
RSET
250 2.5.0 Ok.
MAIL FROM:<HexValidEmail@hexillion.com>
250 2.5.0 Address Ok.
RCPT TO:<nursingsce@nyp.org>
250 2.1.5 nursingsce@nyp.org OK.
RSET
250 2.5.0 Ok.
QUIT
221 2.3.0 Bye received. Goodbye.
[Connection closed]
```

CarnalOwne

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Clez.net

- <http://clez.net/net>

What's this?

Given you know an open TCP port at a host and want to know which application is waiting for connections. In **net** mode, we try to find it out without knowing anything. It takes longer than **head**, a mode based on rough knowledge of the protocol. Most information we gather here can be retrieved via telnet or nmap, but needs the outbound port on your client to be open.

Reason for building this service

I built this service because I occasionally appear to find myself in corporate networks not allowing me to probe any port I need.

CarnalOwne

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 CA# 94-1720 CRR



Clez.net

- Query port and service scan information
- dns, ping, whois, ssl info, traceroutes
- email verification, open relay checking

The screenshot shows the net.app interface for scanning www.baytsp.com on port 80. The scan results are as follows:

| Application detection | |
|-----------------------|--------------|
| Application | Apache httpd |
| Protocol | http |

| HTTP HEAD Request | |
|-------------------|-------------------------------|
| HTTP/1.1 200 OK | |
| Date | Sat, 27 Sep 2008 16:20:14 GMT |
| Server | Apache |
| Connection | close |
| Content-Type | text/html |

Elapsed time: 0.306 seconds.

Additional HTTP Methods

Caution

CA# 94-1720 CRR b7c



Clez.net

- Email Verification

net.toolkit

- index
- net +
- string +
- list +
- mail +
- .rbl
- .relay
- .surbl
- .vrfy
- web +

expand | collapse

ADD THIS

mail.vrfy

Test if an email address could receive messages.

idn >GO smtp smtps all mx

info vrfy result

basic tests:

- PASSED** syntax check
- PASSED** local part check
- PASSED** hostname is not an IDN
- PASSED** resolved hostname
- PASSED** well-known throwaway and example check
- PASSED** baytsp.com has 1 MX records set

mail exchanger mail.baytsp.net at priority 10

- PASSED** mail.baytsp.net resolves to 216.133.204.227
- PASSED** connected to mail.baytsp.net:25
- PASSED** got (E)SMTP greeter:
- PASSED** mailbox verified by VRFY
- WARNING** SMTPd does not support/denies EXPN
- PASSED** accepts test sender
- FAILED** mailbox unknown, mail would be rejected

220 mail.baytsp.net ESMTP XWall v3.42
 252 Unable to VRFY user (e.g. info is not local), but will take message for this
 502 command not implemented

mail verification finished, all checked mailservers rejected the recipient.

CarnalOwne

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 Declassify on: OADR
 CA# 94-1720 CRR b7c



Clez.net

- Email Verification

net.toolkit

- index
- net +
- string +
- list +
- mail** +
 - .rbl
 - .relay
 - .surbl
 - .vrfy
- web +

expand | collapse

ADD THIS

Enter an email address to verify message:
 >GO smtp smtps all mx

[? info](#) [vrfy result](#)

basic tests:

PASSED syntax check
PASSED local part check
PASSED hostname is not an IDN
PASSED resolved hostname
PASSED well-known throwaway and example check
PASSED nyp.org has 3 MX records set

mail exchanger **mail-gw2.med.cornell.edu** at priority 10

PASSED mail-gw2.med.cornell.edu resolves to 140.251.3.2
PASSED connected to mail-gw2.med.cornell.edu:25
PASSED got (E)SMTP greeter:
PASSED mailbox verified by VRFY
WARNING EXPN is prohibited on this system
PASSED accepts test sender
PASSED accepts e-mails to **nursingsce@nyp.org**

220 mail-gw2.med.cornell.edu -- Server ESMTP (SMTP Server)
 252 2.5.0 Possible local address <nursingsce@nyp.org>
 550 5.7.2 EXPN command has been disabled.

mail exchanger **mail-gw1.med.cornell.edu** at priority 20

PASSED mail-gw1.med.cornell.edu resolves to 140.251.3.44
PASSED connected to mail-gw1.med.cornell.edu:25
PASSED got (E)SMTP greeter:
PASSED mailbox verified by VRFY
WARNING EXPN is prohibited on this system
PASSED accepts test sender
PASSED accepts e-mails to **nursingsce@nyp.org**

220 mail-gw1.med.cornell.edu -- Server ESMTP (SMTP Server)
 252 2.5.0 Possible local address <nursingsce@nyp.org>
 550 5.7.2 EXPN command has been disabled.

Carnal O n a g e

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 Declassify on: OADR
 CA# 94-1720 CRR



Clez.net

• Email Verification

net.toolkit

- index
- net +
- string +
- list +
- mail** +
 - .rbl
 - .relay
 - .surbl
 - .vrfy
- web +

expand | collapse

ADD THIS

mail.vrfy

Test if an email address could receive messages.

notthere@nyp.org >GO smtp ssmtps all mx

info vrfy result

basic tests:

- PASSED** syntax check
- PASSED** local part check
- PASSED** hostname is not an IDN
- PASSED** resolved hostname
- PASSED** well-known throwaway and example check
- PASSED** nyp.org has 3 MX records set

mail exchanger **mail-gw2.med.cornell.edu** at priority 10

- PASSED** mail-gw2.med.cornell.edu resolves to 140.251.3.2
- PASSED** connected to mail-gw2.med.cornell.edu:25
- PASSED** got (E)SMTP greeter:
- PASSED** mailbox verified by VRFY
- WARNING** EXPN is prohibited on this system
- PASSED** accepts test sender
- FAILED** mailbox unknown, mail would be rejected

220 mail-gw2.med.cornell.edu -- Server ESMTP (SMTP Server)
 252 2.5.0 Possible local address <notthere@nyp.org>
 550 5.7.2 EXPN command has been disabled.

mail exchanger **mail-gw1.med.cornell.edu** at priority 20

- PASSED** mail-gw1.med.cornell.edu resolves to 140.251.3.44
- PASSED** connected to mail-gw1.med.cornell.edu:25
- PASSED** got (E)SMTP greeter:
- PASSED** mailbox verified by VRFY
- WARNING** EXPN is prohibited on this system
- PASSED** accepts test sender
- FAILED** mailbox unknown, mail would be rejected

220 mail-gw1.med.cornell.edu -- Server ESMTP (SMTP Server)
 252 2.5.0 Possible local address <notthere@nyp.org>
 550 5.7.2 EXPN command has been disabled.

CarnalOwne

11/10/94
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 CA# 94-1720 CRR b7c



Robtex

- <http://www.robtex.com/> Similar to ServerSniff

baytsp.com

domain graph shared whois blacklists

baytsp.com is a domain controlled by three nameservers. All of them are on different IP networks. Incoming mail for baytsp.com is handled by one mailserver at baytsp.net. baytsp.com has one IP record. sfaa.us, chsm.net, dmsm.net, 33rx.info, acslc.net and at least 100 other hosts point to the same IP. gsr.se, dwdj.com, eews.com, cdbl.net, cfod.net and at least 100 other hosts share nameservers with this domain. baytsp.net, tronarx.net, assetscore.net, ladiesweekend.com, copyrightspider.net and at least seven other hosts share mailservers with this domain. 69-22-178-185.baytsp.com, 69-22-181-164.baytsp.com, 69-22-180-164.baytsp.com, 69-22-180-180.baytsp.com, 69-22-181-182.baytsp.com and at least 100 other hosts are subdomains to this hostname.



| base | record | name | ip | reverse | route | as |
|------------|--------|--|---|--|--|--|
| baytsp.com | a | | 68.178.254.204 Apache | p3slh053.shr.phx3.secureserver.net | 68.178.252.0/22 | AS26496 PAH-INC Go Daddy Software, Inc. |
| | ns | ns13.zoneedit.com | 66.223.40.121 dns | | 66.223.0.0/17 66.223.0.0~66.223.127.255 | AS11305 INTERLAND-NET1 Interland Incorporated |
| | | ns1.baytsp.net | 216.133.204.226 dns | | 216.133.192.0/19 Megapath aggregate | AS4565 EPOCH Megapath Inc./Formerly Netifice Communications/Epoch Internet 555 Anton Blvd, 2nd Floor Costa Mesa, CA 92626 NOC: 1888 638 3696 or 1714 327 2000 nocops@netifice.com Peering: @megapath.com Megapath BGP customers may choose to effect our local preferen |
| | | ns2.baytsp.net | 216.132.49.229 dns | | 216.132.0.0/16 Megapath aggregate | |
| | mx | mail.baytsp.net | 216.133.204.227 220 mail.baytsp.net | | 216.133.192.0/19 Megapath aggregate | |

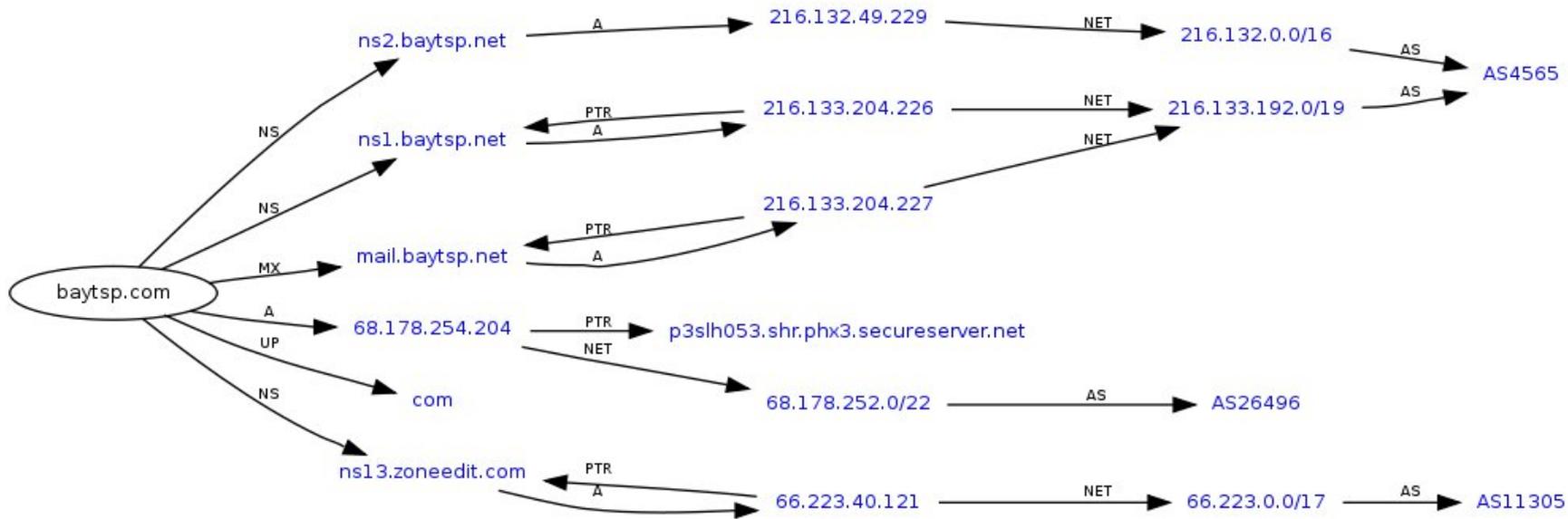
CarnalOwne

11/10/94
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Declassify on: OADR
CA# 94-1720 CRR b7c



Robtex

[net](#) [gtld-servers.net](#) [baytsp.net](#) [zoneedit.com](#) [phx3.secureserver.net](#) [shr.phx3.secureserver.net](#) [secureserver.net](#)



- hostnames sharing ip with a-records**
 - [1cialissource.net](#)
 - [1cialisstop.net](#)
 - [1levitrasource.net](#)
 - [1levitrasstop.net](#)
- hostnames beginning with baytsp**
 - [baytsp.co.uk](#)
 - [baytsp.fe4-5.ar1.sfo2.infraswitch.r](#)
 - [baytsp.net](#)
- hostnames sharing ip indirectly via cnames**
 - [www.hegstrom.com](#)
- domains sharing mailservers**
 - [assetscore.net](#)
 - [baytsp.net](#)
 - [copyright-compliance.com](#)
 - [copyright-guardian.com](#)
- domains sharing nameservers**
 - [abeltek.com](#)
 - [ads12pluss.net](#)
 - [aeonsystems.org](#)
 - [aimteam.com](#)
- subdomains**
 - [.baytsp.com](#)
 - [69-22-140-161.baytsp.com](#)
 - [69-22-140-162.baytsp.com](#)
 - [69-22-140-163.baytsp.com](#)
 - [69-22-140-164.baytsp.com](#)

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spoke.com

- Search for people locate their company
- Search for companies and retrieve names

People Search Results

[Your Search:](#) baytsp.com
 Show Details Save As... Edit

28 total results
 25 results per page
All dates (current jobs)

Add to SFA Add to List Add All to List Export
1 to 25 (of 28)

| Name | Job Title | | Company | Validated [?] |
|-----------------------------------|---|--|----------------------------------|------------------------|
| Robert Sweeney | Chief Financial Officer | | Baytsp.Com Inc | 6/2008 |
| Mark Ishikawa | Chief Executive Officer | | Baytsp.Com Inc | 6/2008 |
| Leland Woo | Vp, Business Development * | | Baytsp.Com Inc * | 6/2008 |
| Richard Jorgensen | Director * | | Baytsp.Com Inc * | 1/2008 |
| Lawrence Low | Vp | | Baytsp.Com Inc | 6/2008 |
| Evelyn Espinosa | Chief Operating Officer Co-founder | | Baytsp.Com Inc | 6/2008 |
| John Salter | Vp, Product Development | | Baytsp.Com Inc | 6/2008 |
| Travis Hill | Vp, Engineering | | Baytsp.Com Inc | 6/2008 |
| Arielle Kim | Executive Administrator | | Baytsp.Com Inc | 2/2005 |
| Clifton Wong | Chief Financial Officer | | Baytsp.Com Inc | 7/2007 |
| Matt Sprague | | | Baytsp.Com Inc | 3/2007 |
| Nicole Manske | | | Baytsp.Com Inc | 3/2008 |
| Lloyd Payton | | | Baytsp.Com Inc | 2/2005 |

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TouchGraph

- <http://touchgraph.com>
- “TouchGraph's powerful visualization solutions reveal relationships between people, organizations, and ideas.”
- Visually show the big picture on how things are tied together using Google results.

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Tying it all together with Maltego

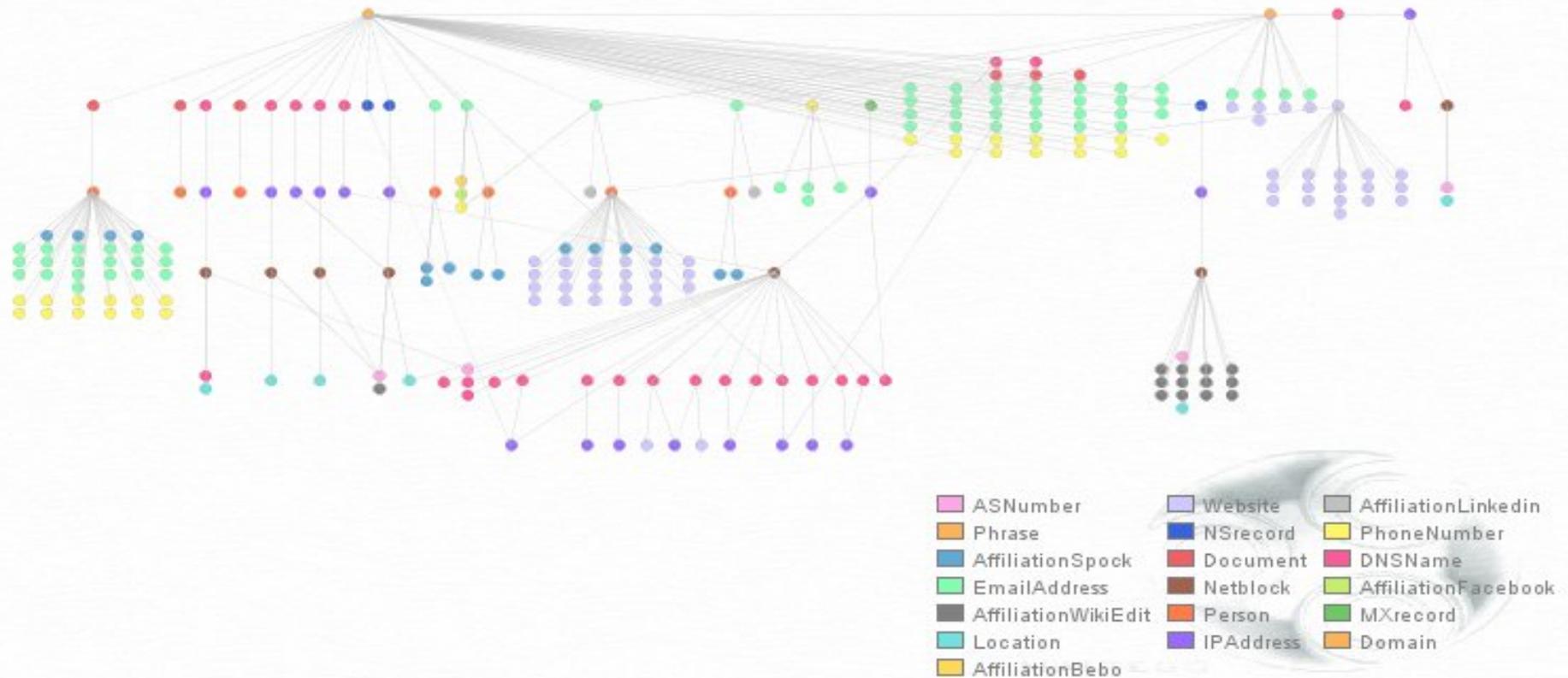
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Maltego

- What does this tell me about our target domain?



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Maltego

- <http://www.paterva.com/web2/Maltego/maltego.html>
- By Roelof Temmingh from Paterva
- **What is it?**
- Maltego is a program that can be used to determine the relationships and real world links between:
 - People
 - Groups of people (social networks)
 - Companies
 - Organizations
 - Web sites
 - Internet infrastructure such as:
 - Domains
 - DNS names
 - Netblocks
 - IP addresses
 - Phrases
 - Affiliations
 - Documents and files
- All using open source intelligence (OSINT)

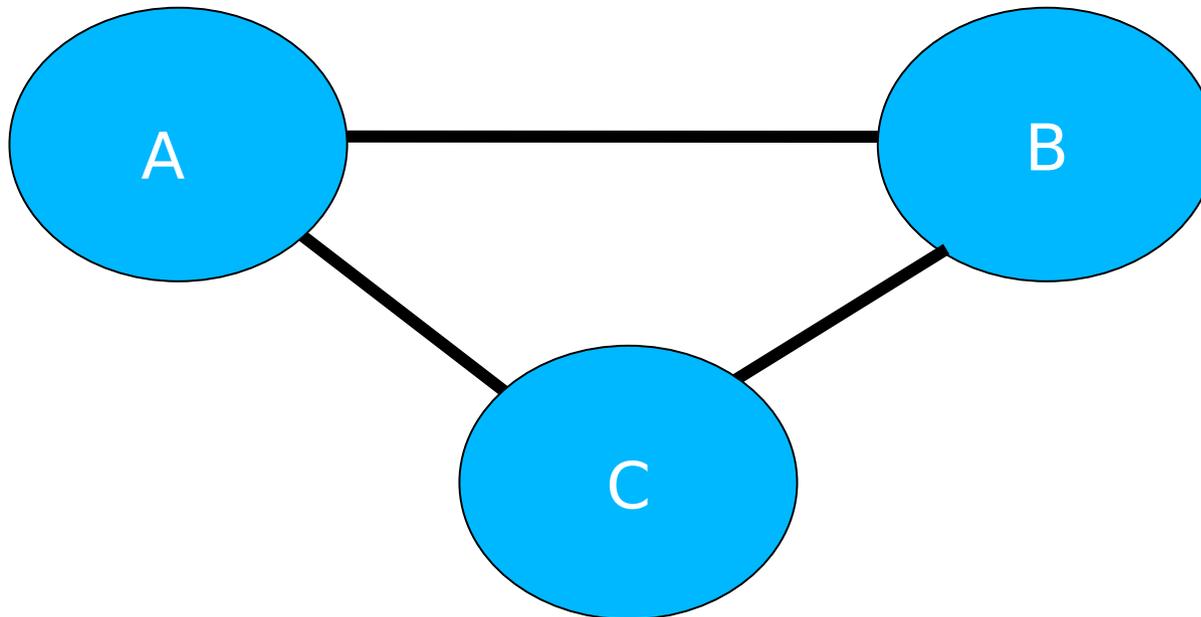
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Maltego

- It would be good to learn or verify that A is related to B and they are both related to C, or...



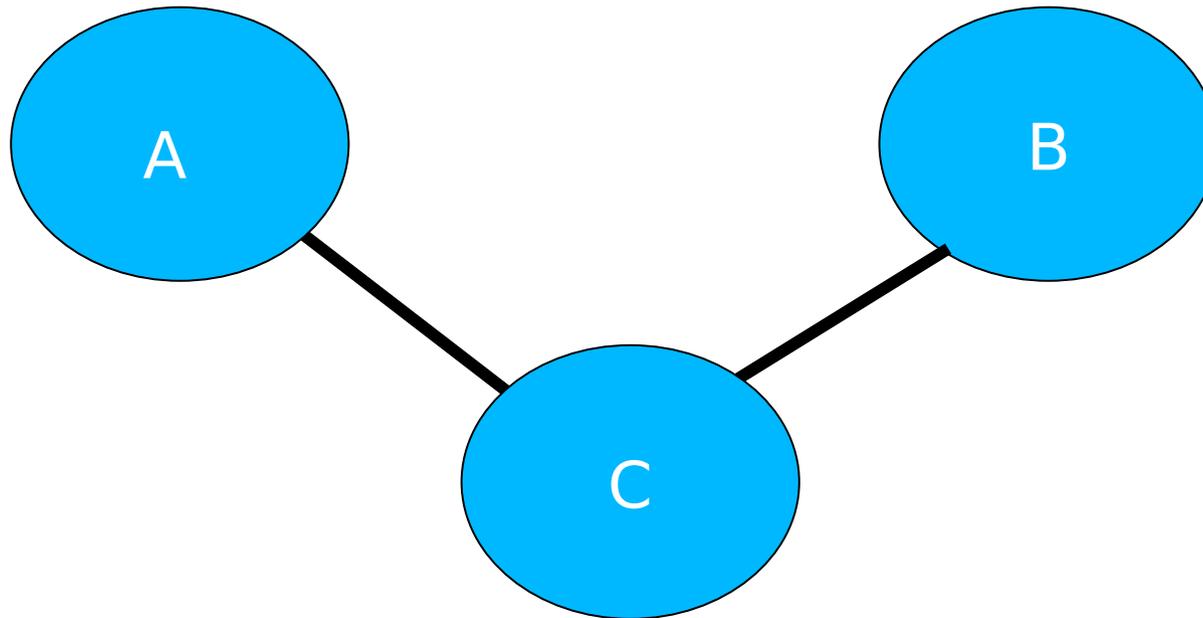
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Maltego

- We can see that A and B are related **through** C



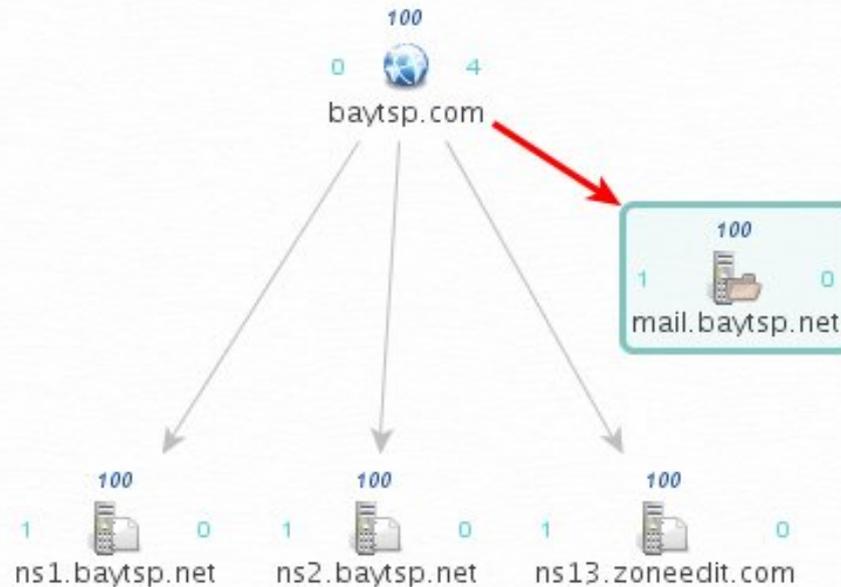
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Maltego

- Find our MX and NS servers



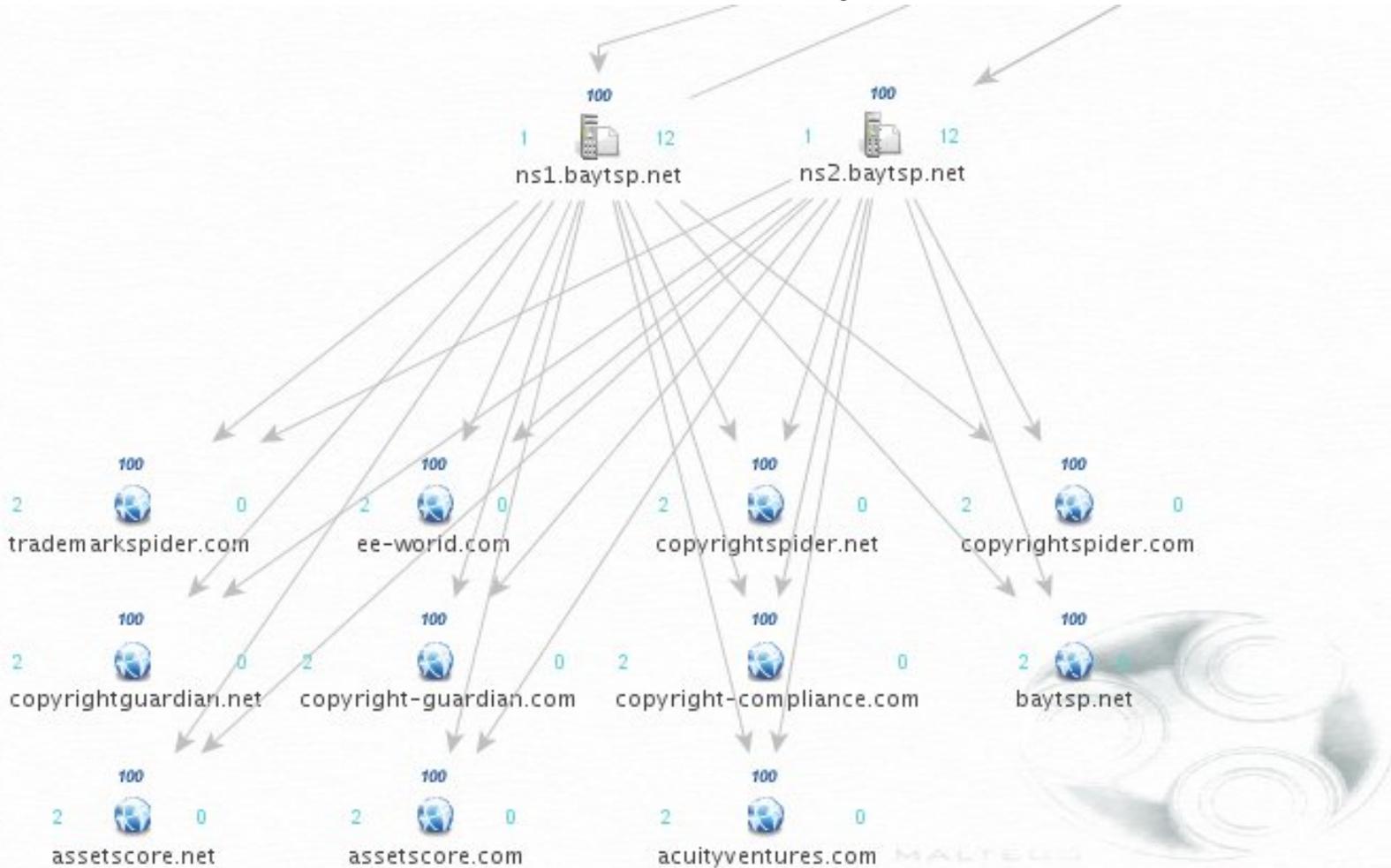
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Maltego

- See what hostnames are shared by the DNS servers



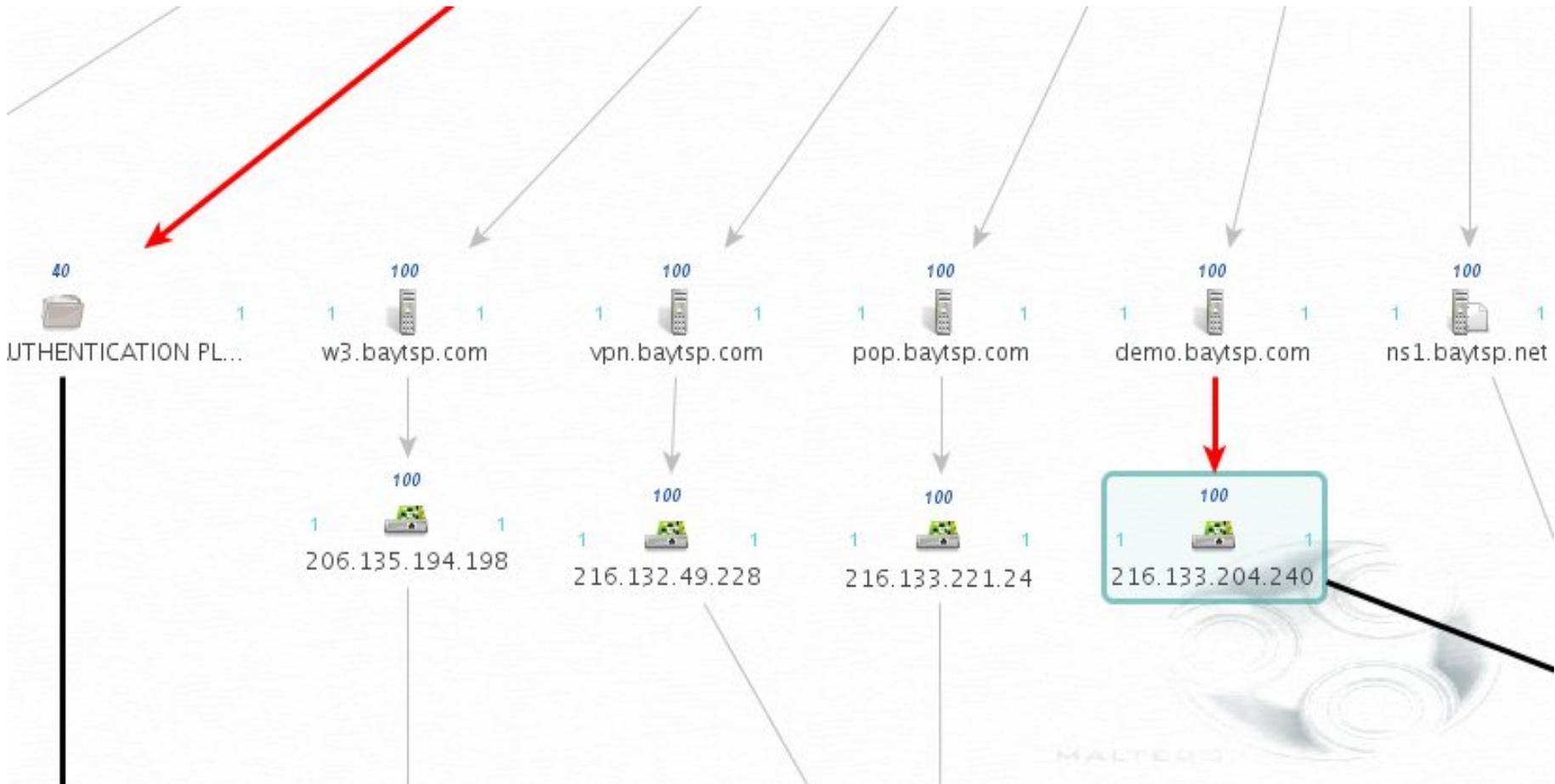
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Maltego

- Brute force our domain names and resolve them to IPs



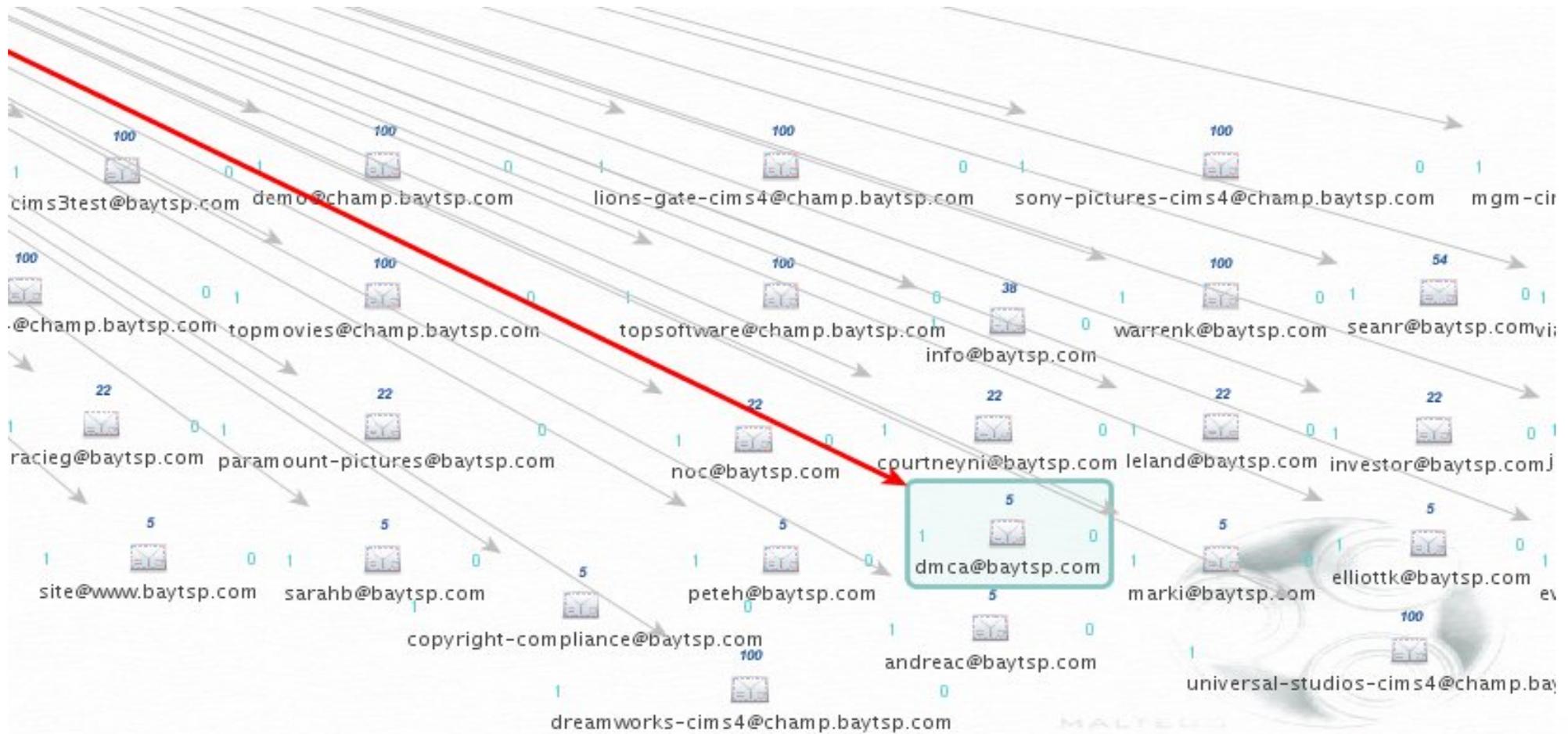
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Maltego

- Harvest emails for the domain and verify them



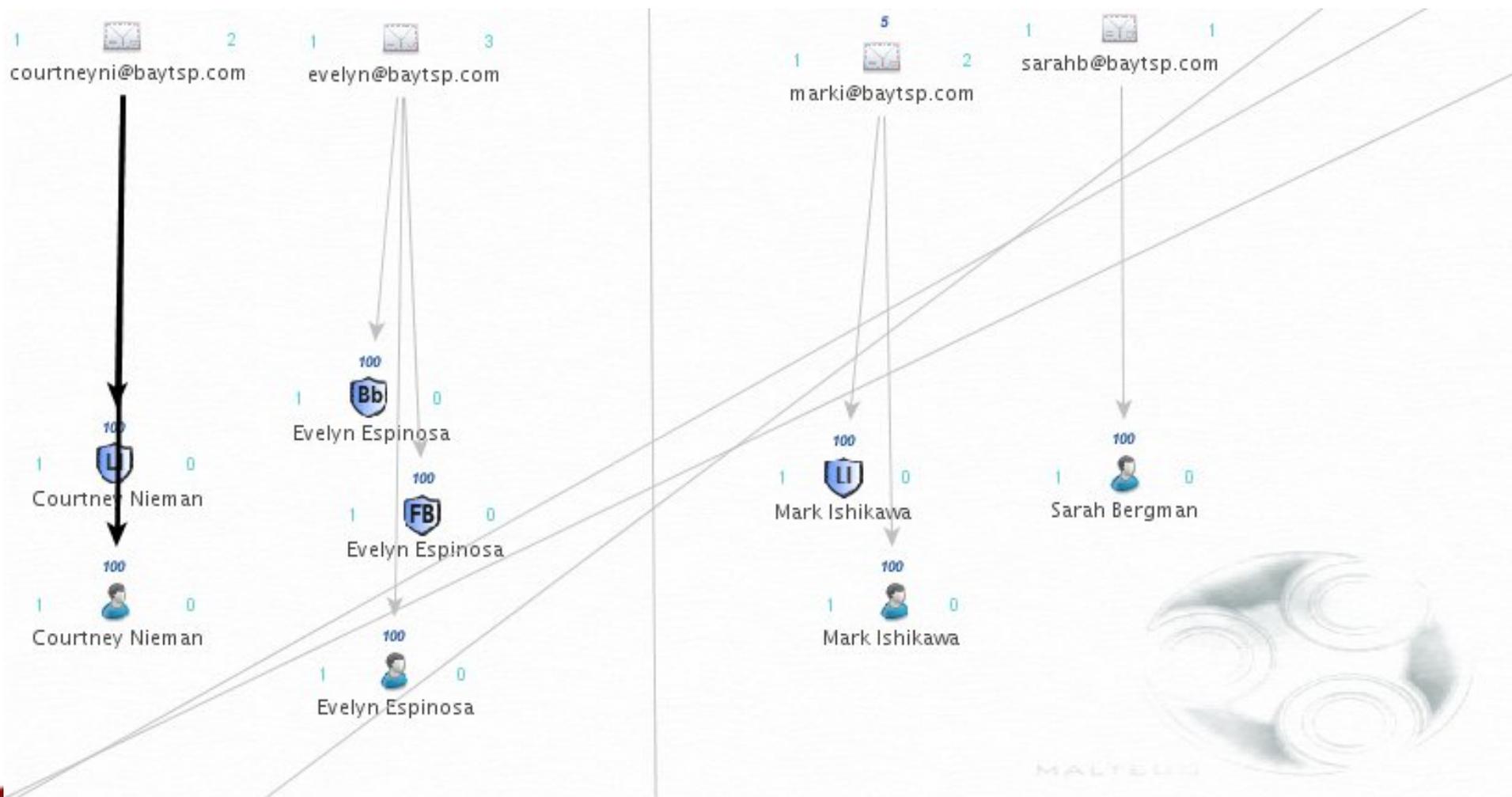
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Maltego

- Turn those emails into users and their social networks



Carnal Ownership

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Maltego

- Take an email and derive name, phone number, social network information

mark

Male
43 years old
LOS GATOS,
California
United States

Last Login:
6/24/2008

75
marki@baytsp.com

Mark Ishikawa
CEO at BayTSP and Owner, BayTSP
San Francisco Bay Area

Current ♦ CEO at BayTSP
Connections 45 connections
Industry Computer & Network Security
Public Profile <http://www.linkedin.com/pub/0/40b/bb2>

100
1 LI 0
Mark Ishikawa

100
1 28 2
Mark Ishikawa

+1 408 399 0600

200
1 Spk 0
Mark Ishikawa

100
1 Spk 0
Mark D Ishikawa

300

67c

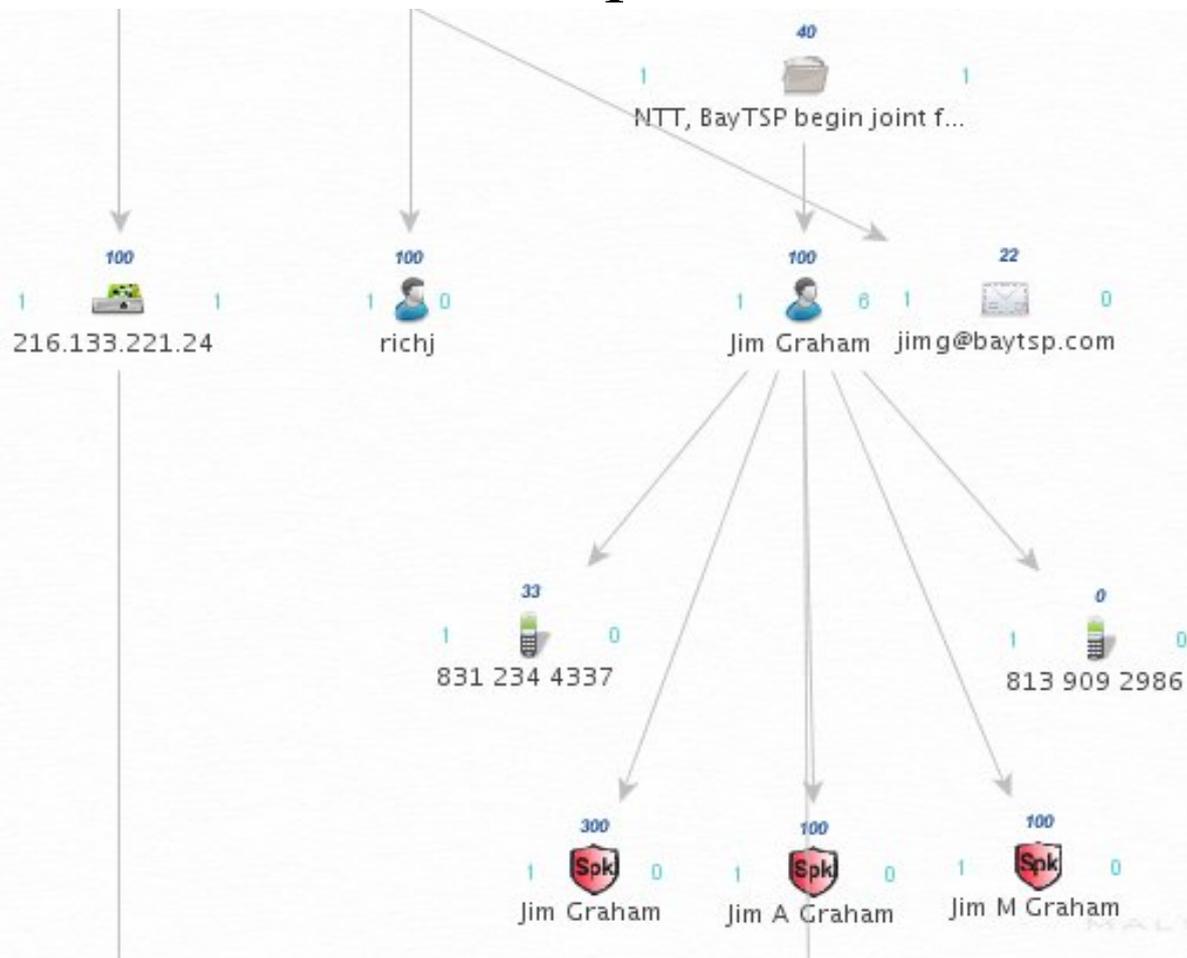
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Carnal Downage



Maltego

- Harvest documents for the domain and parse the metadata, get emails, usernames, phone numbers



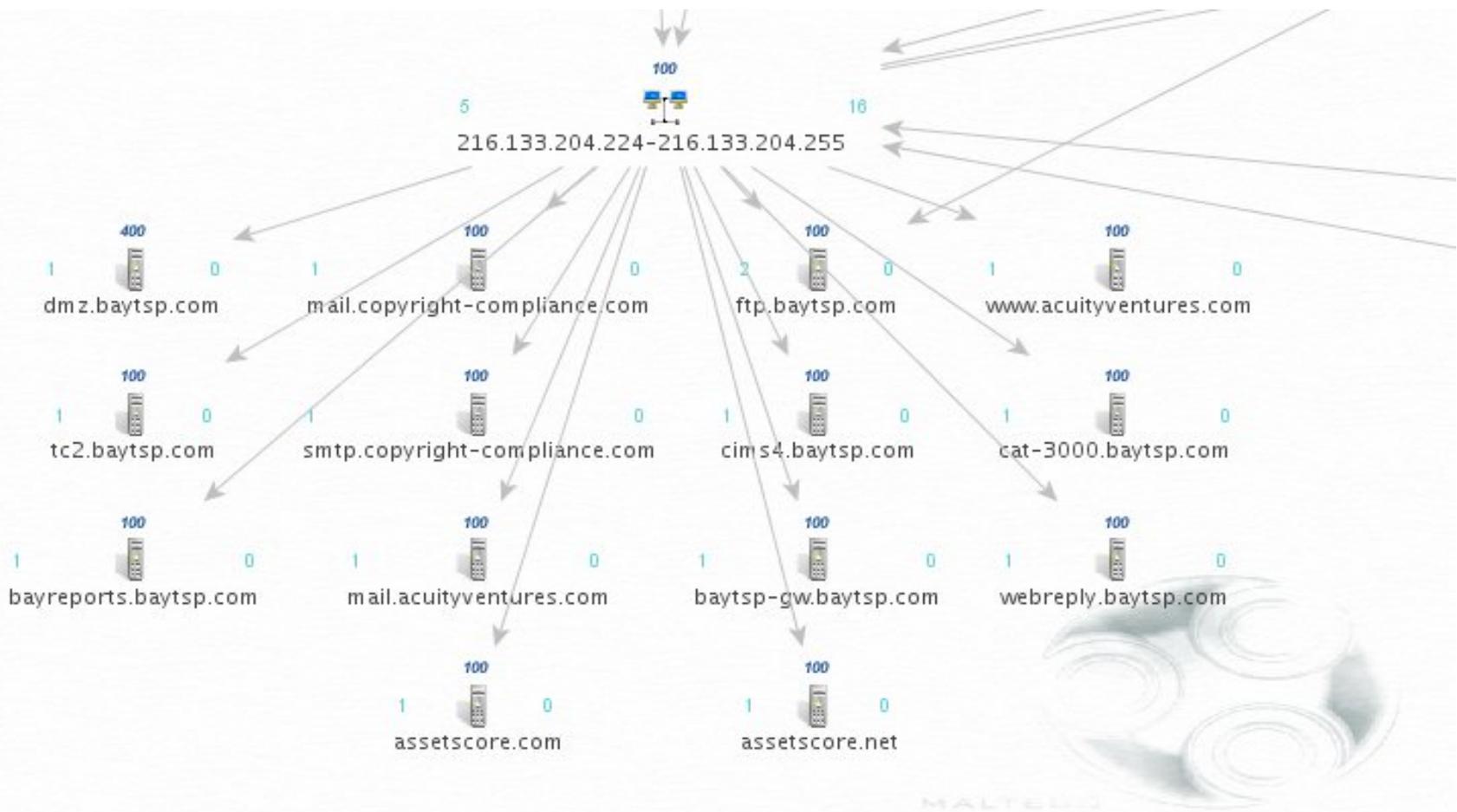
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Maltego

- See shared domains (copyright-compliance, baytsp.net, baytsp.com, assetscore.com, etc)



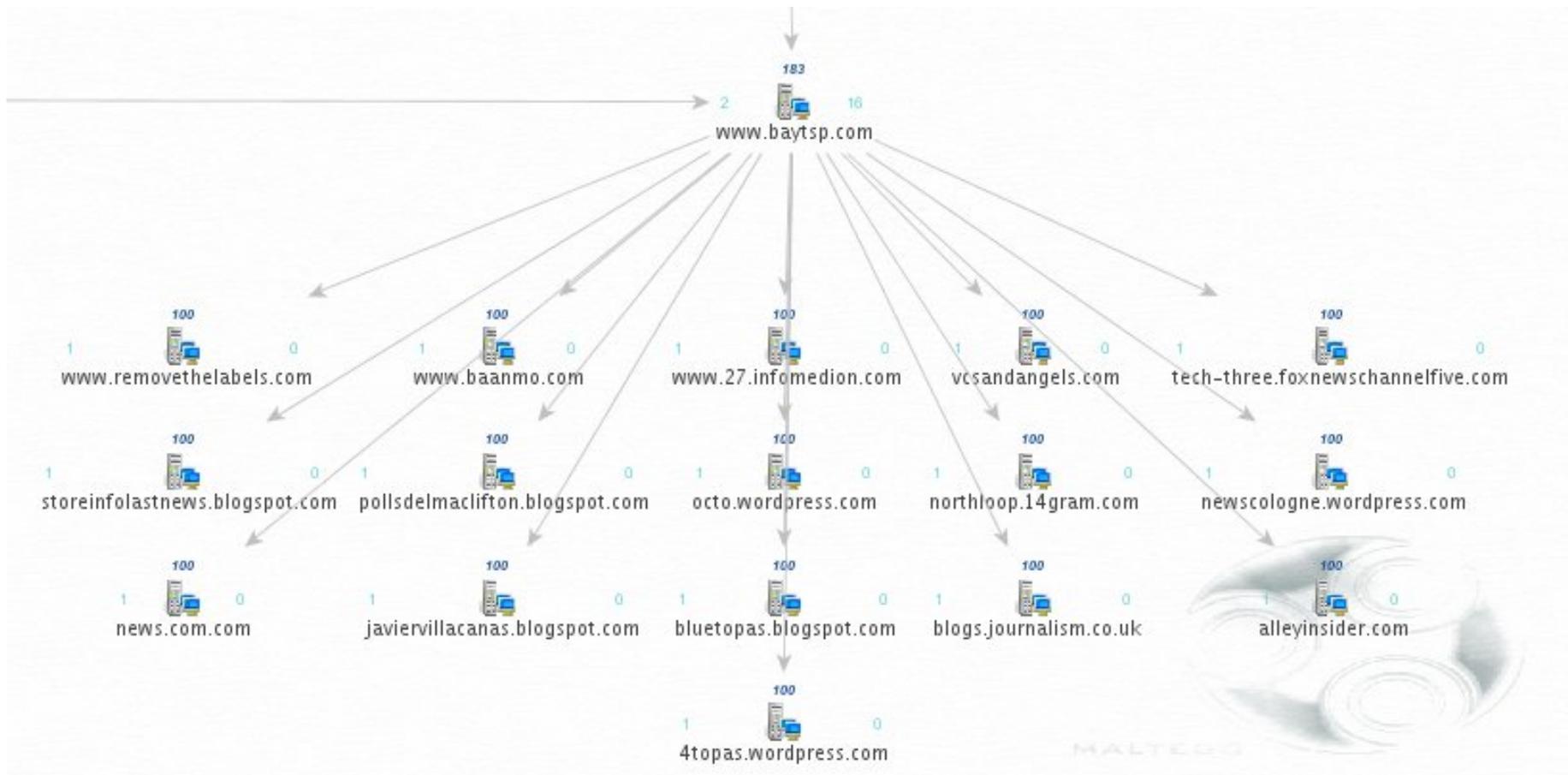
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Maltego

- Incoming links



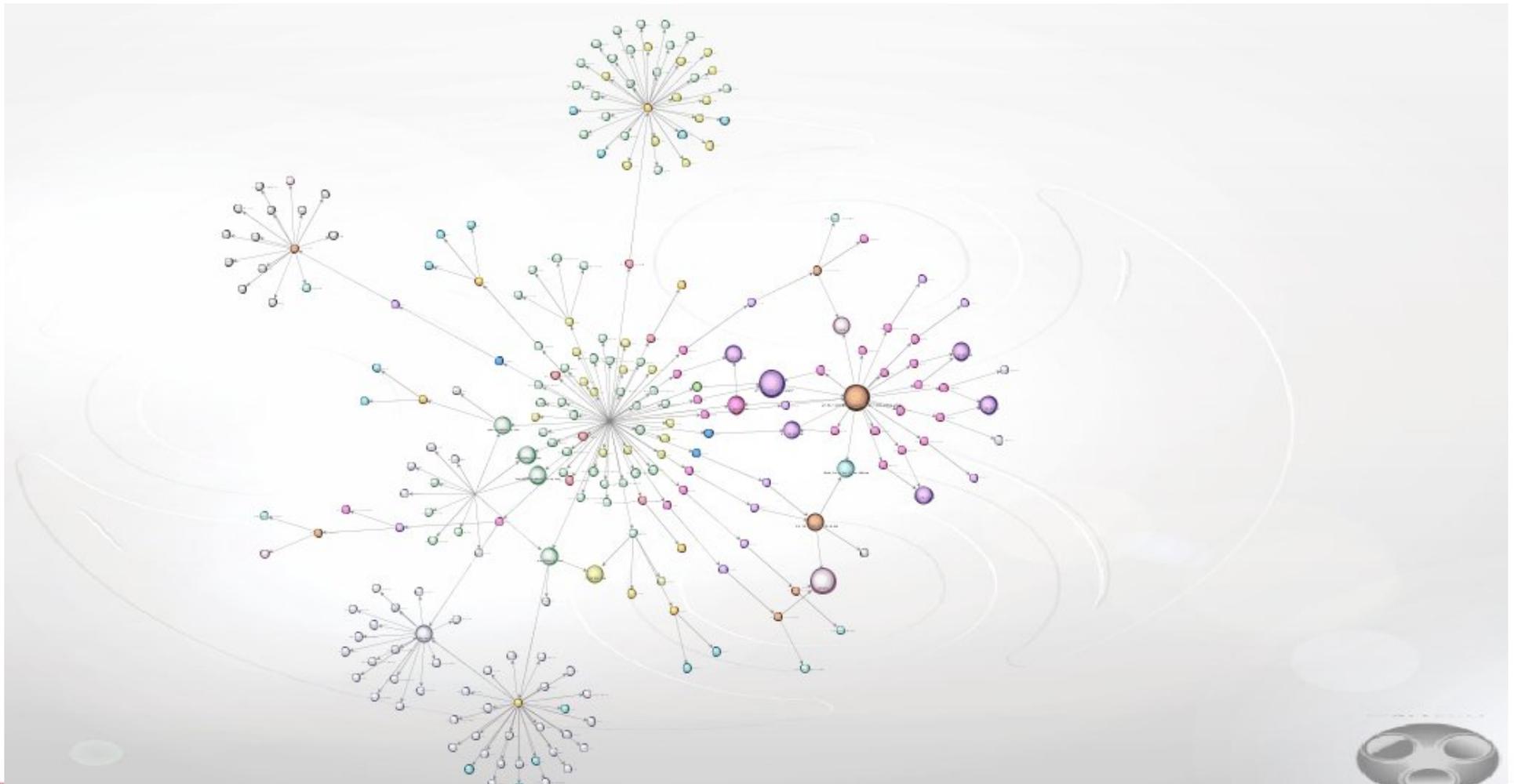
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Maltego

- Sort your views to see relationships



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Maltego

- What else can Maltego do?
 - Technorati transforms, blog tags, search blogs for phrases
 - Incoming links, who links to your domain
 - Social network transforms; find a name, find their email, blog, phone number, etc
 - Print graphs on several pages
 - Can export the data into .csv, can save the maltego file and be opened by any other maltego instance
 - Save pieces of graphs as images
 - Can write your own transforms or stand up your own server.
- ** version 2 is for pay but cheap \$430 USD for first year

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So What?

- Ok lots of information what did I get from all of it?
 - If you are allowed to send social engineered emails or do client side attacks, you have an initial target list of email addresses. Using email dossier/maltego I can verify working email addresses. I only need one person to open/click that email for my foothold.
 - Naming conventions, users and offices, phone numbers, relationships between organizations
 - Target organization's IP Space and footprint. VPN server's IP, Terminal/Citrix server IPs, firewall's IP, etc.
 - Software versions of software that is typically targeted in client side attacks (MS office)
 - Using Maltego we see the relationships between our site and other sites in addition to the above.
 - All gained without your typical definition of "scanning"

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Questions?

Chris Gates (CG)

<http://carnal0wnage.blogspot.com>

<http://www.learnsecurityonline.com>

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