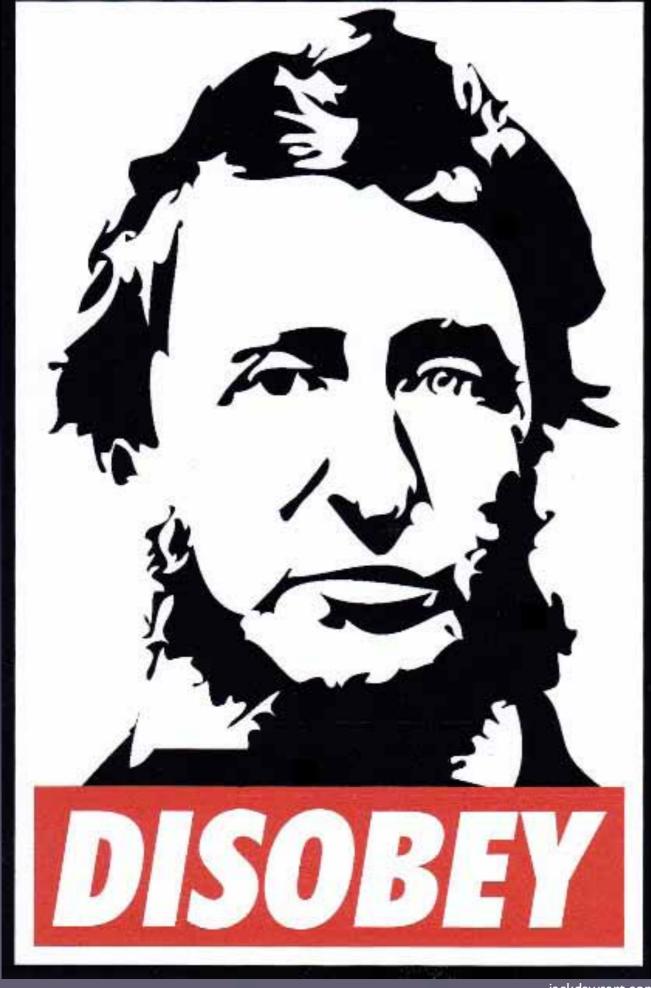


Don't Fuck It Up!



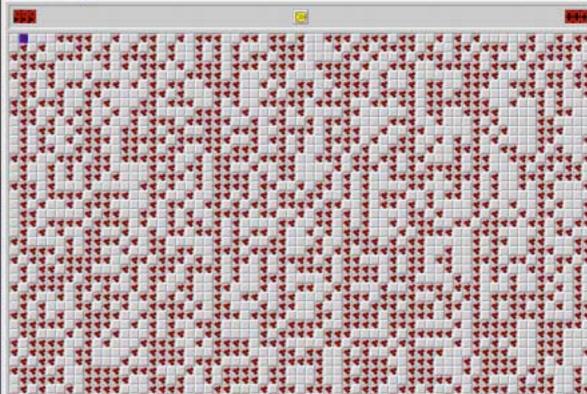




Unjust laws exist: shall we be content to obey them, or shall we endeavor to amend them, and obey them until we have succeeded, or shall we transgress them at once?

—Henry David Thoreau, Civil Disobedience





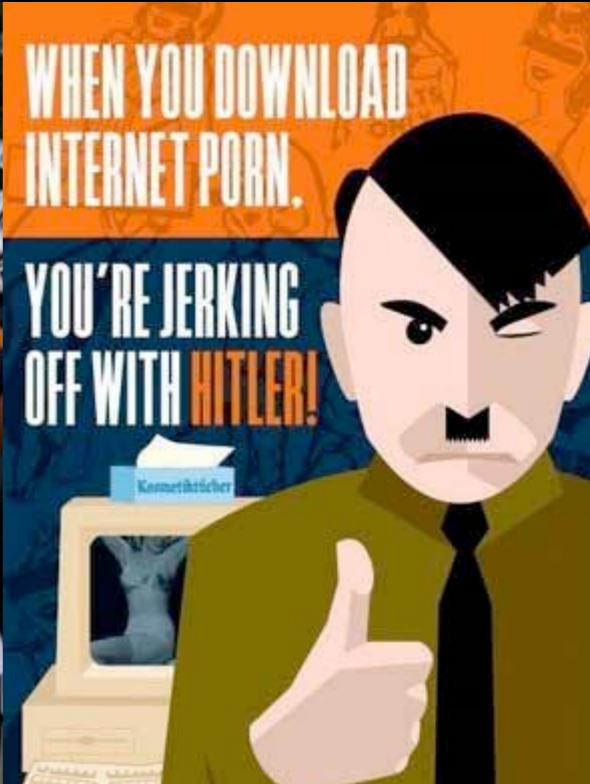




Encryption key (for config):	smthrandomkey	timestamp: DxD66CD9B
Clear cookies every startup (IE, FF):		Anti-Rapport: W
Delete non-exportable certificates:	~	FF webinjects: 🔽
Don't send http-reports:	Ë	Opera formgrabber: 🔽
Don't send http reports:		P Chrome formgrabber: 🔽
Compress build by UPX v3.07w :	V	
Make build without ZLIB support SpyEye may use zlib for unpacking gzip or deflate content at FF webinjects so, this option can save 15-16 KB):		
Make LITE-config without webinjects, plugins & screenshots):		
• EXE name : Recycle.Bin		Mutex name : SystemService











"On the Internet, nobody knows you're a dog."

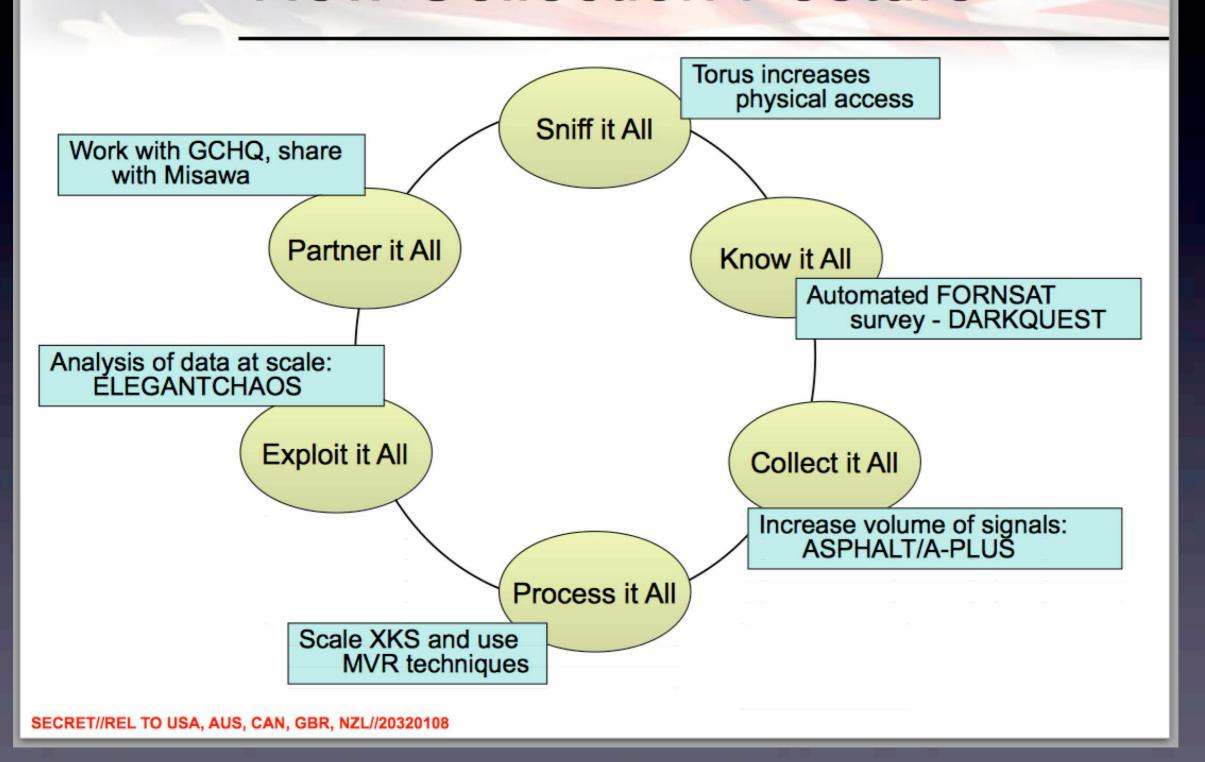




On the Internet, everyone knows you like ASCII Goatse.



New Collection Posture





Tradecraft

Perceptual Biases

Expectations
Resistance
Ambiguities

Biases In Evaluating Evidence

Consistency
Missing Information
Discredited Evidence

Biases In Estimating Probabilities

Availability
Anchoring
Overconfidence

Biases In Perceiving Causality

Rationality Attribution



Tradecraft

- Key Assumptions Check
- Quality Of Information Check
- Contrarian Techniques
 - Devil's Advocacy
 - High Impact/Low Probability
 - "What If?" Analysis
 - Red Team



OPSEC



ENEMY EARS are listening

THE BOTTOM LIEF ON DPSEC;

We all have information that the Bad Guys need to hurt us. We don't want them to get it. The OPSEC process helps us to look at our world through the eyes of an adversary and to develop measures in order to deny them. Get it?



The OPSEC Process:

- U Identify Critical Info
- @ Analyze Threats
- 1 Analyze Vulnerabilities
- @ Assess the Risks
- 6 Apply Countermeasures

AND THE TIME.

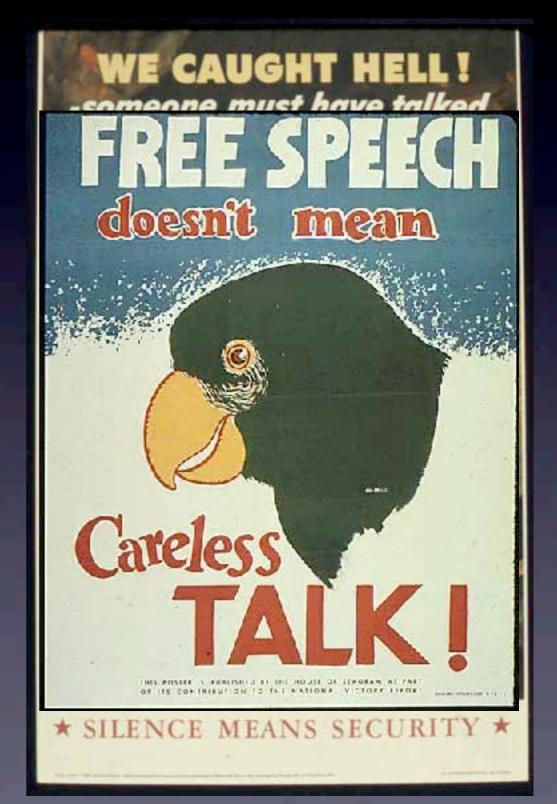
STEPS...

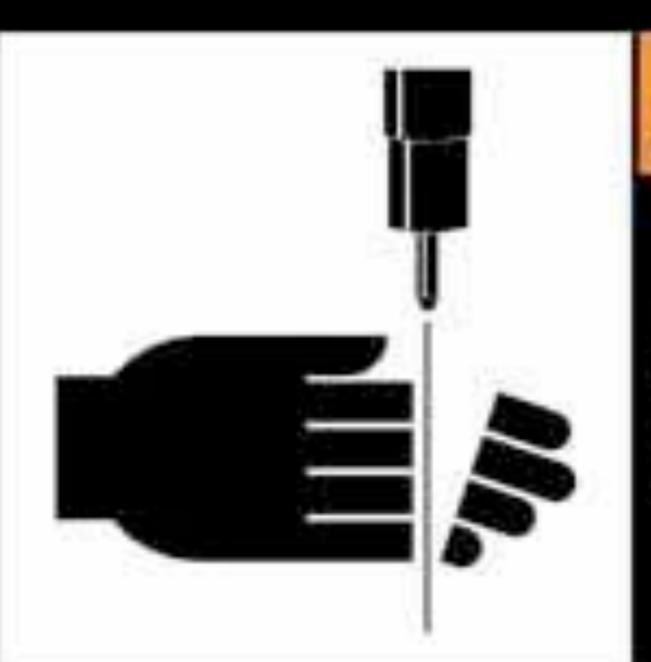
WHAT IS OPERATIONS SECURITY?

Operations Security, or OPSEC, is a risk management methodology used to deny an adversary information concerning our intentions and capabilities by identifying, controlling, and protecting critical information associated with the planning and execution of a mission.

The 7 Deadly Fuckups

- Overconfidence
- Trust
- Perceived Insignificance
- Guilt By Association
- Packet Origin
- Cleartext
- Documentation

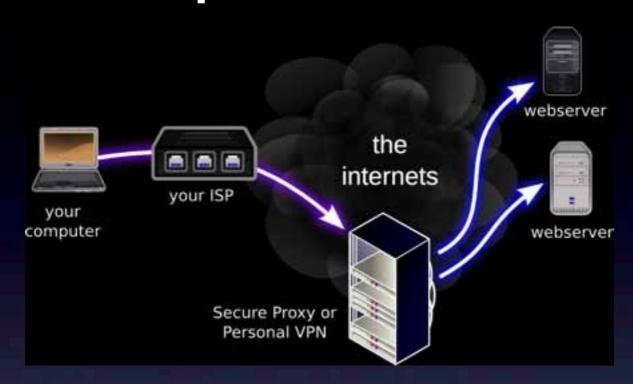




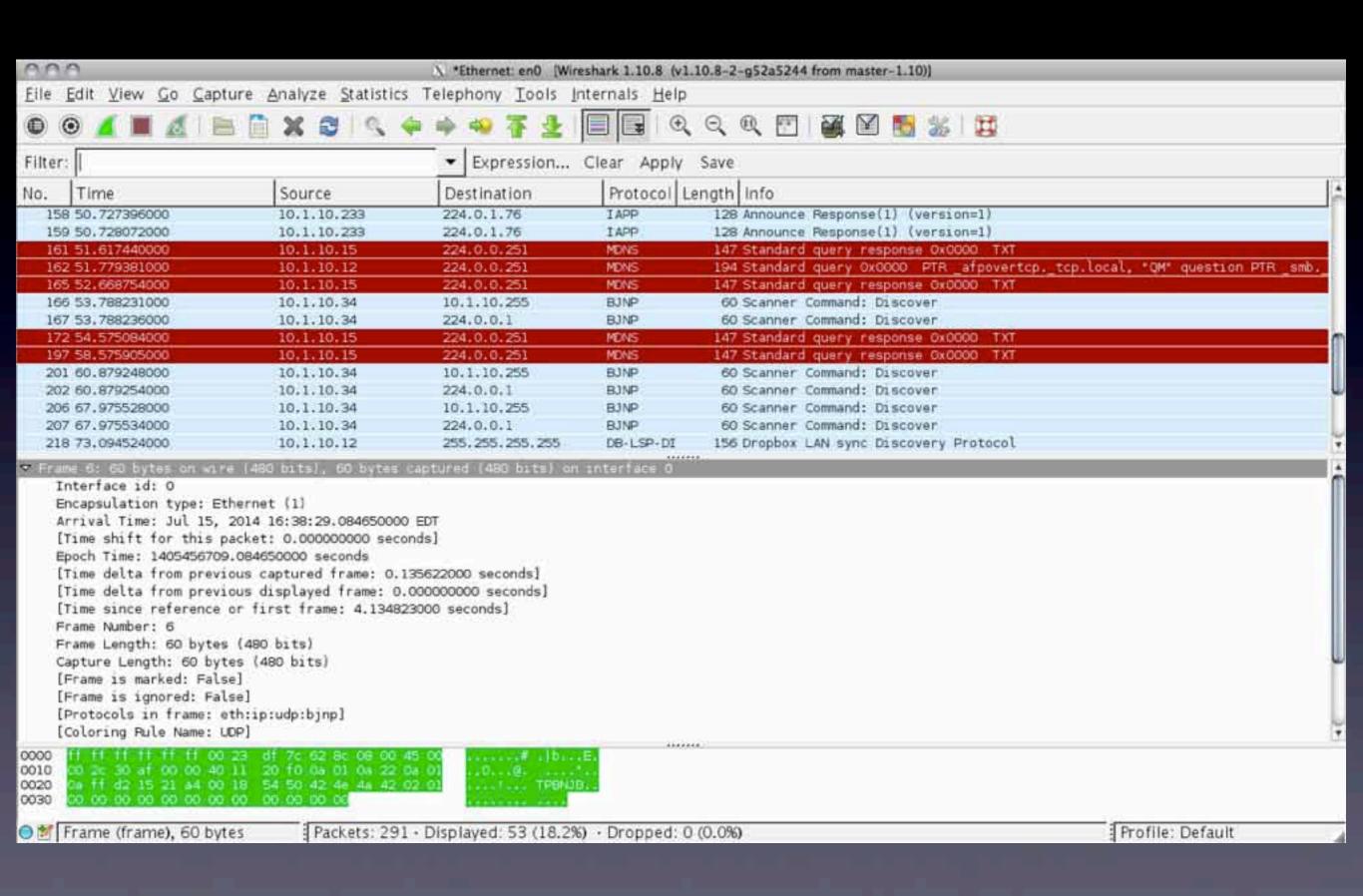


Keep hands away from jet.

Don't Fuck It Up When You Use A VPN



- Traffic Encryption
- Location Obfuscation
- Request Concealment
 - ...Depending On Listener Location
 - ...Depending On Provider



**Write failed: Permission denied
[Vomitose:~] zoz%



% killall -STOP Mail thunderbird Google Safari Firefox Adium Dropbox % killall -CONT Mail thunderbird Google Safari Firefox Adium Dropbox



% cat bin/rmac #!/bin/csh -f

/System/Library/PrivateFrameworks/Apple80211.framework/Resources/airport -z
set rnd_mac_addr = 00: openssl rand -hex 5 | sed 's/\(..\)/\1:/g; s/.\$//'
/sbin/ifconfig en1 ether \$rnd_mac_addr
%

Technology Detection



- Show me all the VPN startups in country X, and give me the data so I can decrypt and discover the users
 - These events are easily browsable in XKEYSCORE
 - No strong-selector
 - XKEYSCORE extracts and stores authoring information for many major document types – can perform a retrospective survey to trace the document origin since metadata is typically kept for up to 30 days
 - No other system performs this on raw unselected bulk traffic, data volumes prohibit forwarding

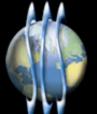
TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL



CES/SSC/AAD VPN "Surge"

- Main Goal:
 - To evaluate SCS VPN access and analysis to determine better methods of identifying and exploiting networks of interest.
- Two Focuses:
 - What can we do with VPN data that is already ingested into the system?
 - Find better methods of reporting VPN stats and exploitation determinations from CES back to SSC and site.
 - Are there methods to better identify and survey VPN's to provide CES the data they need?
 - Can we leverage MIRROR, DARKQUEST, PANOPLY survey information to quickly identify and report the presence of VPN's in surveyed signals?
 - Can we use BIRDWATCHER or other means to automatically resurvey for key exchanges and obtain paired collect?

TOP SECRET // COMINT // REL TO USA, AUS, CAN, GBR, NZL



SCS Opportunities





Private Networks are Important



Many targets use private networks.

Google infrastructure	SWIFT Network
REDACTED	REDACTED
REDACTED	Gazprom
Aeroflot	REDACTED
French MFA	REDACTED
Warid Telecom	Petrobras
REDACTED	REDACTED

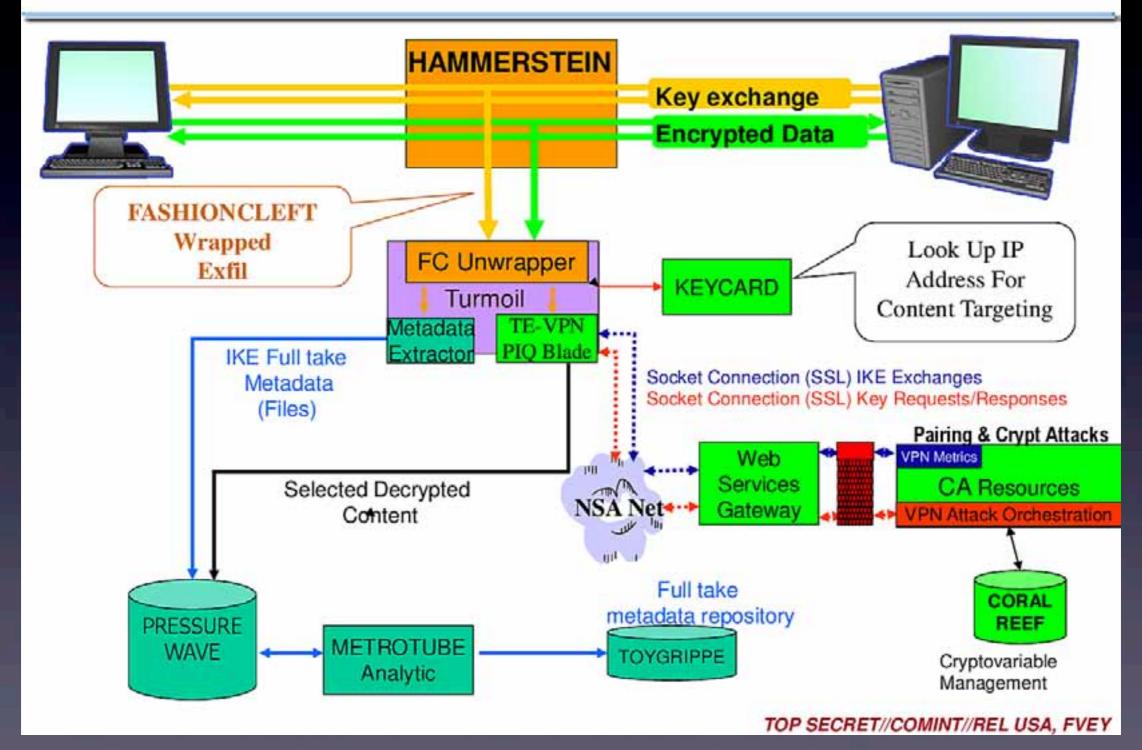
Evidence in Survey: 30%-40% of traffic in
 BLACKPEARL has at least one endpoint private.

TOP SECRET//SI//REL TO USA, FVEY



APEX VPN Exploitation



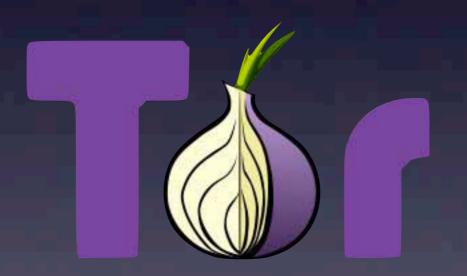


Remember:

PPTP Broken As Of



Don't Fuck It Up When You Use



Case Study: LulzSec/AntiSec



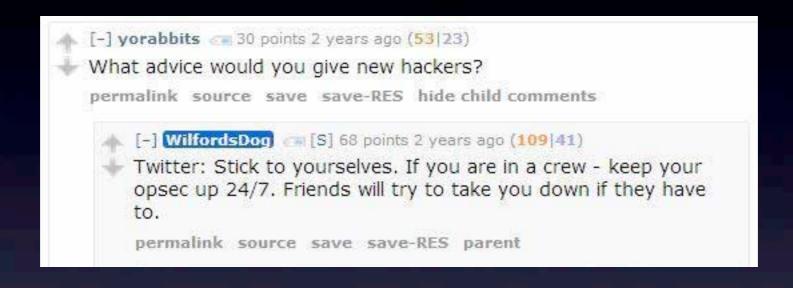






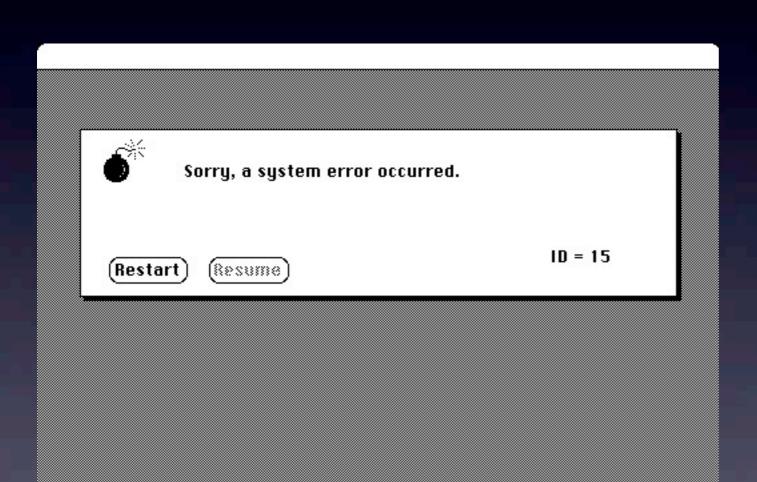


Moral:



- Don't Fail Unsafe With Tor
- Always Check What You're Exposing
- OPSEC Is 24/7

Case Study: Harvard Bomb Hoax





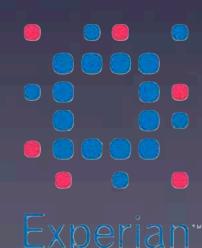


What Fucked It Up?

- Harvard Network Registration
- Outgoing Traffic Logs
- Pervasive Surveillance Microcosm
- Moral:
 - Key Assumptions Check
 - High Impact/Low Probability Analysis
 - Bridge Relays
 - Traffic Analysis Preparation









(TS//SI//REL) Fingerprinting TOR





(TS//SI//REL) Fingerprinting TOR



(TS//SI//REL) BuildID gives a timestamp for when the Firefox release was built

20121024073032
Year Month Day Hour Min Sec

(TS//SI//REL) tbb-firefox's BuildID:

- (TS//SI//REL) TorButton cares about TOR users being indistinguishable from TOR users
- (TS//SI//REL) We only care about TOR users versus non-TOR users
- (TS//SI//REL) Thanks to TorButton, it's easy!



(TS//SI//REL) Exploiting TOR





(TS//SI//REL) Exploiting TOR



- (TS//SI//REL) tbb-firefox is barebones
 - Flash is a no-no
 - NoScript addon pre-installed... ...but not enabled by default!
 - TOR explicitly advises against using any addons or extensions other than TorButton and NoScript
- (TS//SI//REL) Need a native Firefox exploit

- (TS//SI//REL) ERRONEOUSINGENUITY
 - Commonly known as ERIN
 - First native Firefox exploit in a long time
 - Only works against 13.0-16.0.2
- (TS//SI//REL) EGOTISTICALGOAT
 - Commonly known as EGGO
 - Configured for 11.0-16.0.2...
 - ...but the vulnerability also exists in 10.0!

Tor Stinks...

- We will never be able to de-anonymize all Tor users all the time.
- With manual analysis we can de-anonymize a very small fraction of Tor users, however, no success de-anonymizing a user in response to a TOPI request/on demand.

TOP SECRET/COMMIT// REL EVEY

THE REPRETATIONALLY OF EVEY

Analytics: Cookie Leakage (154/50)

Use cookies to identify Tor users when they are not using Tor

- Current: preliminary analysis shows that some cookies "survive" Tor use. Depends on how target is using Tor (Torbutton/Tor Browser Bundle clears out cookies).
- Goal: test with cookies <u>associated</u> with CT targets
 - Idea: what if we seeded cookies to a target?
 - Investigate Evercookie persistence

Analytics:

Goes Inta Goes Outta/Low Latency (5//50)
Find possible alternative accounts for a target: look for connections to Tor, from the target's suspected country, near time of target's activity.

- Current: GCHQ has working version (QUICKANT). R has alpha tested NSA's version. NSA's version produced no obvious candidate selectors.
- Goal: Figure out if QUICKANT works, compare methodologies. Gathering data for additional tests of NSA's version (consistent, random and heavy user)

TOP SECRET//COM/NT// REL FVEY

TOP SECRETICOUNT, RELEVEY

Exploitation: QUANTUM (15//50)

- QUANTUM to degrade/deny/disrupt Tor access?
- QUANTUMCOOKIE forces clients to divulge stored cookies.

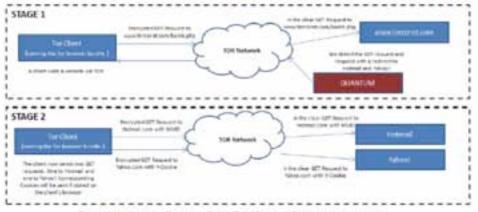
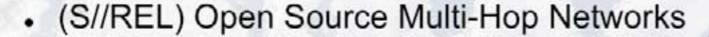


Figure 4: A diagram of how the QUANTUM Survey / Cookie technique work

TOP SECRET//SI//REL TO USA,FVEY

(C//REL) Types of IAT – Advanced Open Source



- (S//REL) Tor
- (S//REL) Very widely used worldwide
- (S//REL) Open Source
 - (S//REL) Active Development
 - (S//REL) Mitigates Threats
- (S//REL) Very Secure
- (S//REL) Low enough latency for most TCP us
- (S//REL) Still the King of high secure, low latency Internet Anonymity
 - (S//REL) There are no contenders for the throne in waiting

TOP SECRET//SI//REL TO USA, FVEY (S//REL) Tor Project and friends Recent Activity

(S// to use! Tails the**amnesic**incognito**live**system

(S//REL) Tails: Complete Bootable OS on CD for anonymity - includes Tor

- (S//REL) Adds Severe CNE misery to equation
- (S//SI//REL) Has been discussed by CT targets

```
// START_DEFINITION
 * Fingerprint Tor authoritative directories enacting the directory protocol.
fingerprint('anonymizer/tor/node/authority') = $tor_authority
  and ($tor_directory or preappid(/anonymizer\/tor\/directory/));
// END_DEFINITION
// START DEFINITION
Global Variable for Tor foreign directory servers. Searching for potential Tor
clients connecting to the Tor foreign directory servers on ports 80 and 443.
$tor_foreign_directory_ip = ip('193.23.244.244' or '194.109.206.212' or
'86.59.21.38' or '213.115.239.118' or '212.112.245.170') and port ('80' or
'443');
// END_DEFINITION
// START_DEFINITION
this variable contains the 3 Tor directory servers hosted in FVEY countries.
Please do not update this variable with non-FVEY IPs. These are held in a
separate variable called $tor_foreign_directory_ip. Goal is to find potential
Tor clients connecting to the Tor directory servers.
$tor_fvey_directory_ip = ip('128.31.0.39' or '216.224.124.114' or
'208.83.223.34') and port ('80' or '443');
// END_DEFINITION
// START DEFINITION
The fingerprint identifies sessions visiting the Tor Project website from
non-fvey countries.
fingerprint('anonymizer/tor/torpoject_visit')=http_host('www.torproject.org')
and not(xff_cc('US' OR 'GB' OR 'CA' OR 'AU' OR 'NZ'));
```

// END_DEFINITION

```
// START_DEFINITION
requires grammar version 5
 * Identify clients accessing Tor bridge information.
fingerprint('anonymizer/tor/bridge/tls') =
ssl_x509_subject('bridges.torproject.org') or
ssl_dns_name('bridges.torproject.org');

    Database Tor bridge information extracted from confirmation emails.

fingerprint('anonymizer/tor/bridge/email') =
email_address('bridges@torproject.org')
    and email_body('https://bridges.torproject.org/' : c++
    extractors: {{
        bridges[] = /bridge s([9-9]{1,3} . [9-9]{1,3} . [9-9]{1,3} . [9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3}):7([9-9]{1,3
[{2,4}?[^0-9]]/;
   33
    init: {{
         xks::undefine_name("anonymizer/tor/torbridges/emailconfirmation");
    main: {{
         static const std::string SCHEMA_OLD = "tor_bridges";
         static const std::string SCHEMA_NEW = "tor_routers";
         static const std::string FLAGS = "Bridge";
         if (bridges) (
              for (size_t i=0; 1 < bridges.size(); ++1) {
                    std::string address = bridges[i][0] + ":" + bridges[i][1];
                    DB[SCHEMA_OLD]["tor_bridge"] = address;
                    DB.apply();
                    DB[SCHEMA_NEW]["tor_ip"] = bridges[i][0];
                    DB[SCHEMA_NEW]["tor_port_or"] = bridges[i][1];
                    DB[SCHEMA_NEW]["tor_flags"] = FLAGS;
                   DB.apply();
              xks::fire_fingerprint("anonymizer/tor/directory/bridge");
        return true;
   333;
// END DEFINITION
```

```
// START_DEFINITION

/*
These variables define terms and websites relating to the TAILs (The Amnesic Incognito Live System) software program, a comsec mechanism advocated by extremists on extremist forums.

*/

$TAILS_terms=word('tails' or 'Amnesiac Incognito Live System') and word('linux' or 'USB ' or 'CD ' or 'secure desktop' or 'IRC ' or 'truecrypt' or ' tor ');

$TAILS_websites=('tails.boum.org/') or ('linuxjournal.com/content/linux*');

// END_DEFINITION
```

Case Study: Silk Road/DPR



Shop by category: Cannabis(162) Ecstasy(33) Psychedelics(119) Opioids(33) Stimulants(56) Dissociatives(6) Other(199)



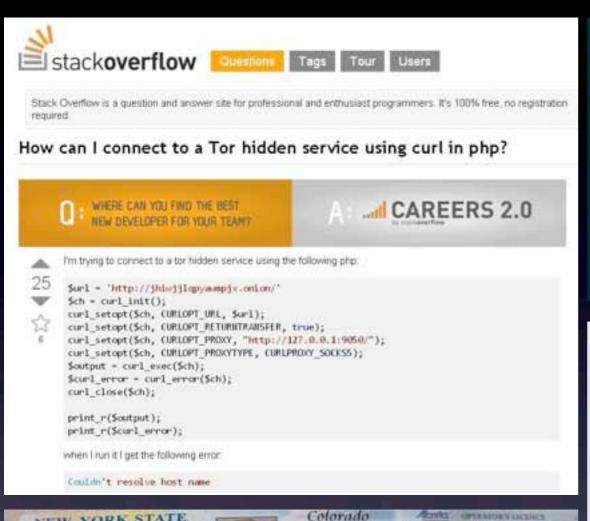
1 hit of LSD (blotter) **B1.13**



1/8 oz high quality cannabis **B3.17**



What Fucked It Up?











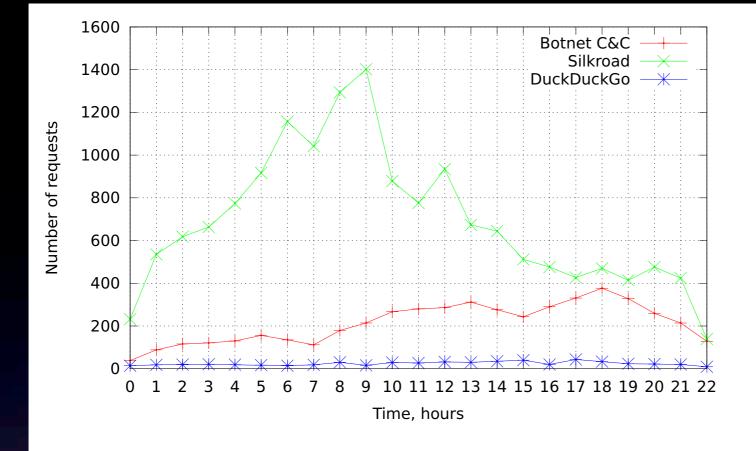


Figure 4. Hidden service descriptor request rate during one day.

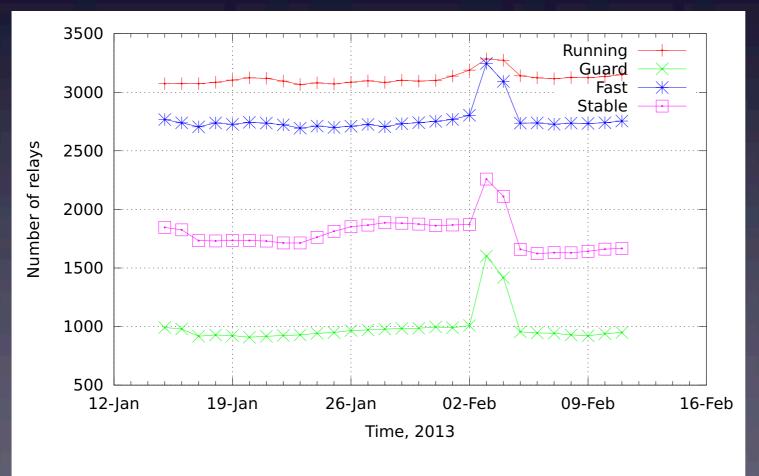


Figure 6. Increase in the number of Guard nodes.

Biryukov, Pustogarov, Weinmann: Trawling for Tor Hidden Services:

Detection, Measurement,

Deanonymization, 2013

Technical Analysis: Hidden Services

What do we know about Hidden Services?

- Current: No effort by NSA, some DSD and GCHQ work on ONIONBREATH.
- Goal:
 - Harvest and enumerate .onion URLs
 - Identify similar HS based on referrer fields
 - Distinguish HS from normal Tor clients

TOP SECRET/COMINT// REL FVEY

Technical Analysis: torservers.net

Investigate the Amazon AWS cloud instances of Tor servers. How are IPs allocated and reassigned once bandwidth limit is reached? Impact on RONIN's ability to detect nodes?

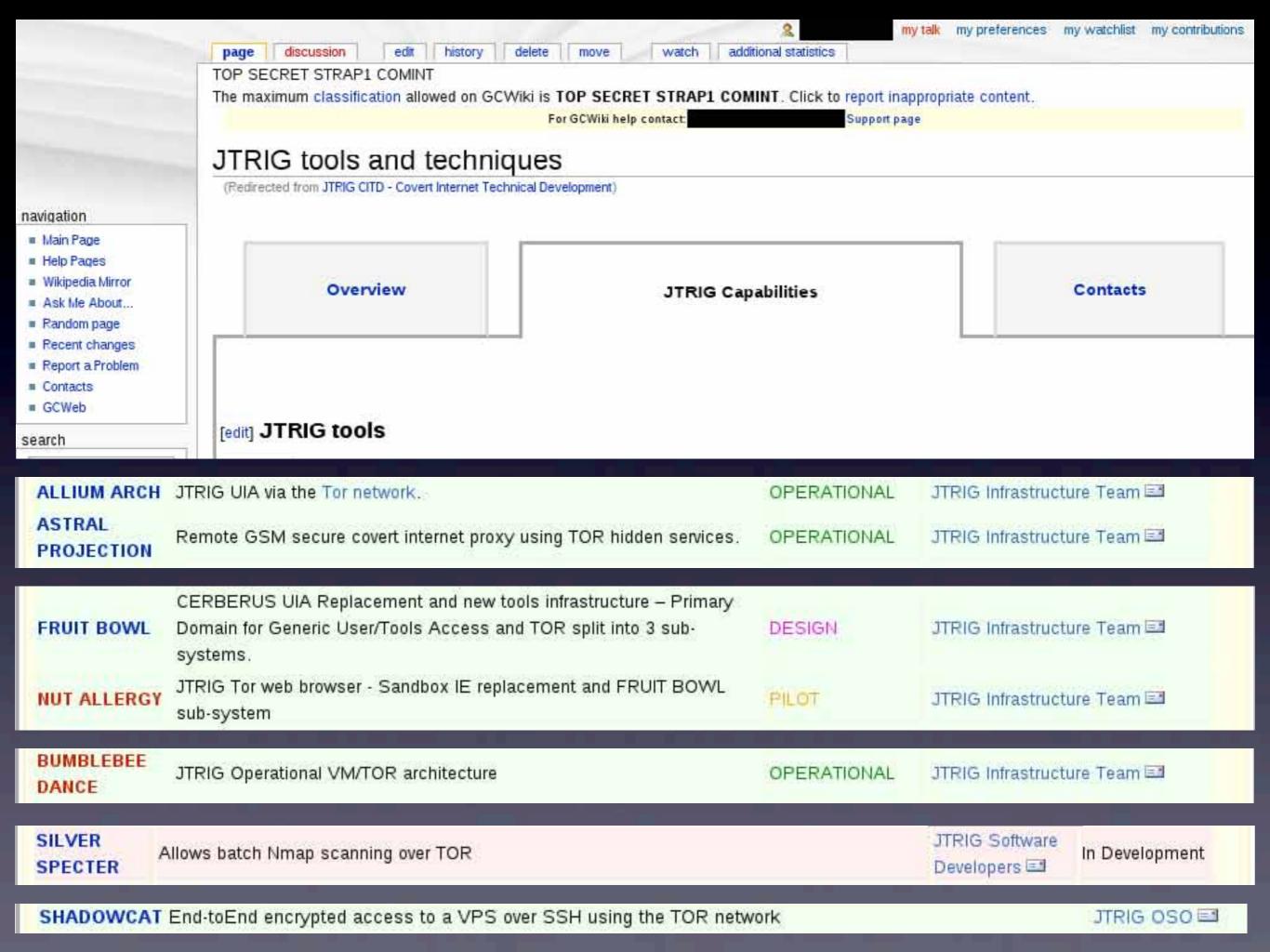
 Current: GCHQ set up Tor nodes on the AWS cloud during REMATION II.

12

SECRETIFOOMINT! REL PVEY

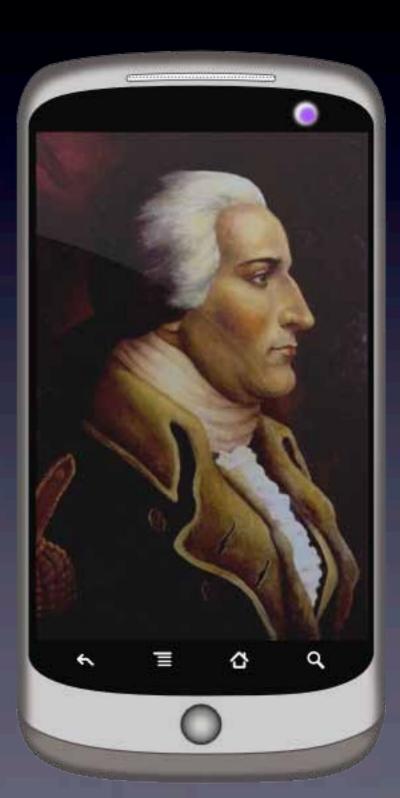
TOP SECRET//COMINT// REL FVEY

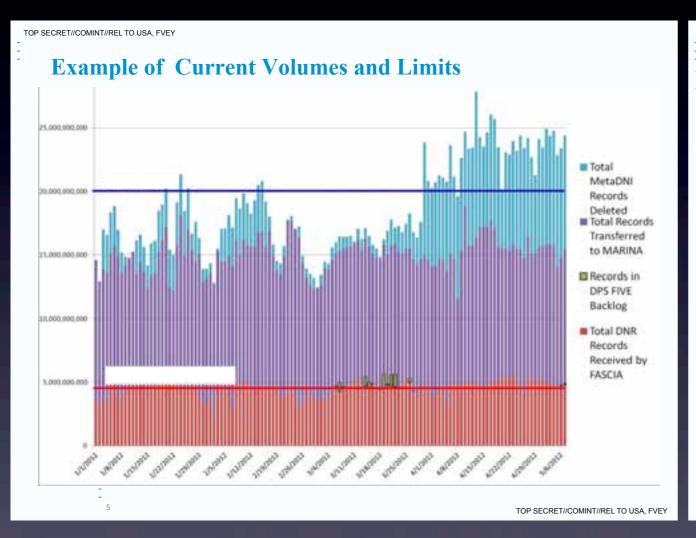
1"



Don't Fuck It Up When You Use The Phone

- How Does Your Phone Betray You? Let Me Count The Ways...
 - Metadata
 - Location
 - Contacts
 - Networks
 - Unique Identifiers
 - Cookies
 - Searches
 - Weak Crypto
 - Repeated Access
 - Autoconnect (Pineapple's BFF)
 - Apps
 - Pattern Of Life





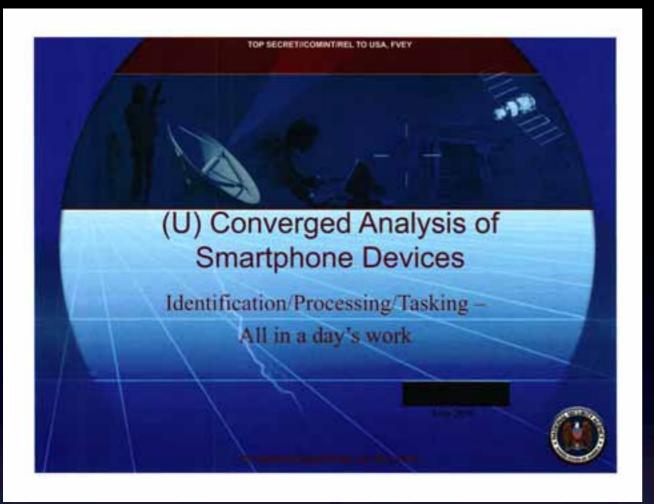
TOP SECRET//COMINT//REL TO USA, FVEY

Dupe Methodology

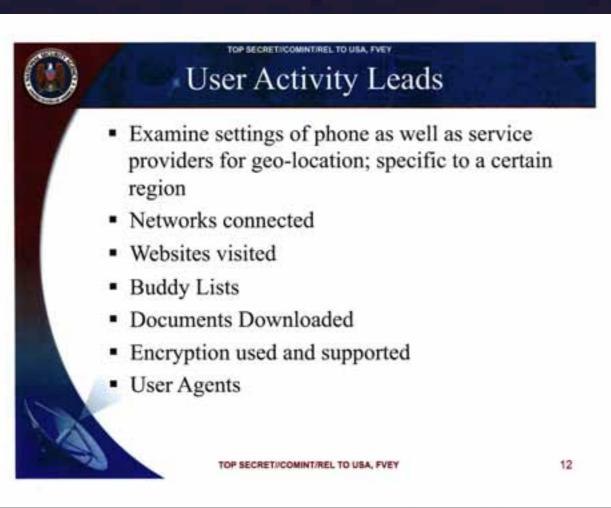
Compare records within various time windows that share identical selectors and locations, specifically:

LAC	CellID	VLR	DesigChannelID
IMEI	ESN	IMSI	MIN
TMSI	MDN	CLI	ODN
MSISDN	RegFMID	CdFMID	CgFMID
RegGID	CdGID	RegIID	Kc
CdIID	CgIID	MSRN	Rand
Sres	Opcode	RQ1	XR1
Q_CK1	Q_IK1	AU1	NewPTMSI
OSME	DSME	RTMSI	PDP_Address
TEID	TLLI	PTMSI	PDDG
-			

TOP SECRET//COMINT//REL TO USA, FVEY

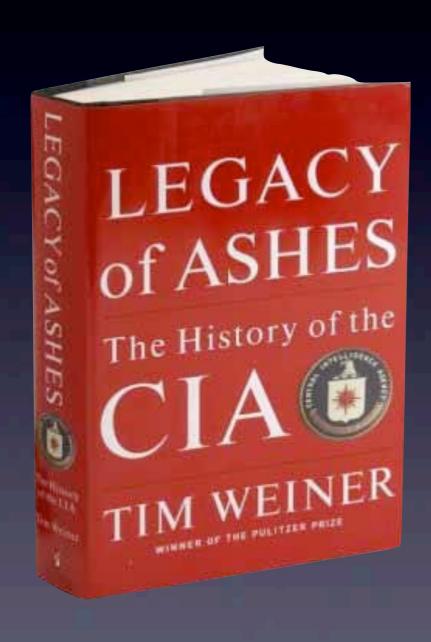








Case Study: CIA/Abu Omar





OCD OPSEC:

Using A Burner Phone Without Fucking It Up

- DO:
 - Advance Purchase
 - Register Far Away
 - Lie To Phone Companies
 - Stay Dumb
 - Remove Battery
 - Fake Contacts
 - Minimize Use
 - Move & Switch
 - Falsify Call Network
 - Purpose Equipment
 - Thou Shalt Always Kill



OCD OPSEC:

Using A Burner Phone Without Fucking It Up

- DON'T EVER:
 - Co-Localize
 - Co-Activate
 - Co-Contact
 - Store Real Data
 - Match Entry/Exit
 - Bridge Online Metadata

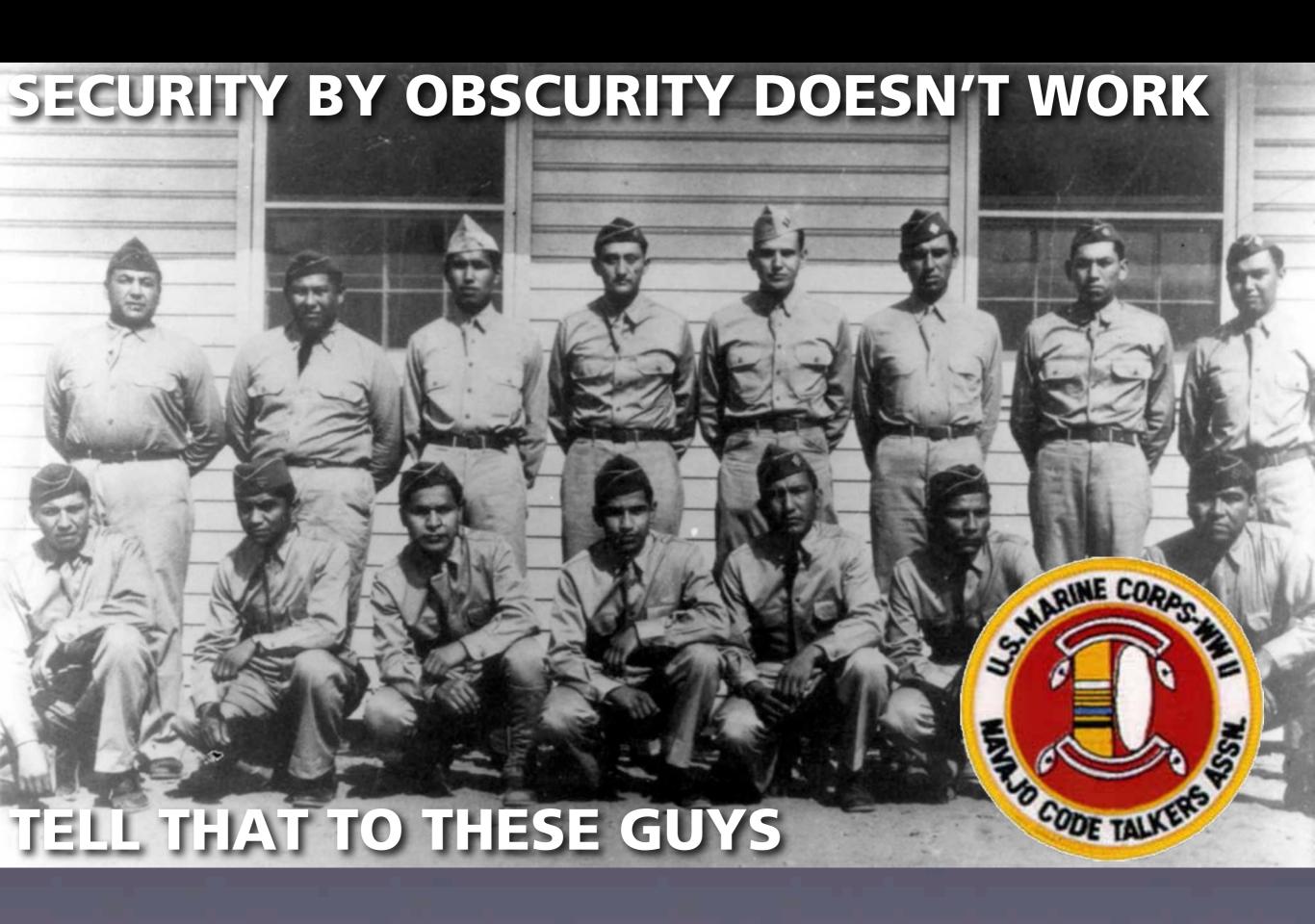


Don't Fuck It Up When You Use Messaging

- After All These Years, E-Mail Still Sucks
 - Spam Fighting Aids Tracking
 - Webmail Using HTTP
 - Weak Server-Side Storage
 - Encrypted Content Not Metadata
 - Insecure Client-Side Logging
 - Bad Retention Habits
 - Google
- And IM Is Not Much Better
- Psycho Ex Principle

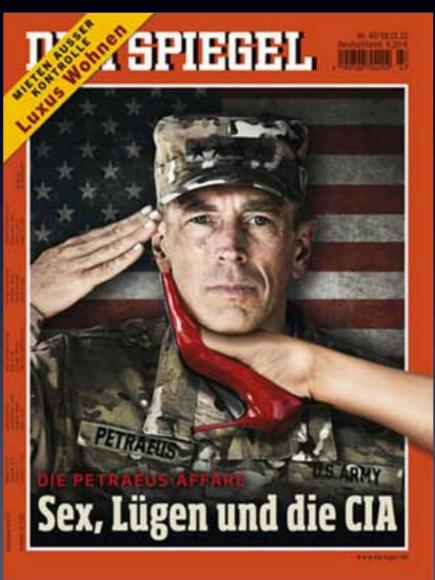




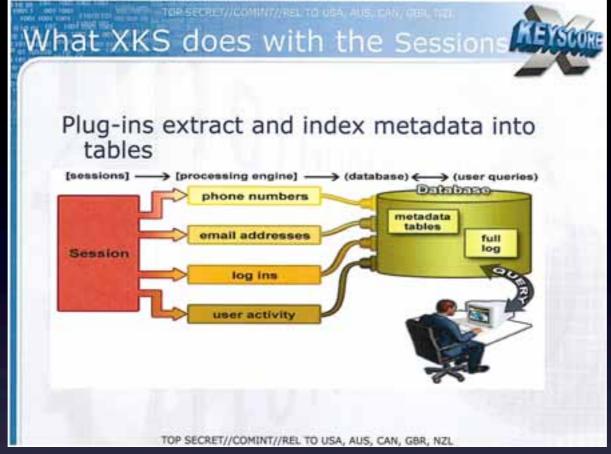


Case Study: CIA/Petraeus



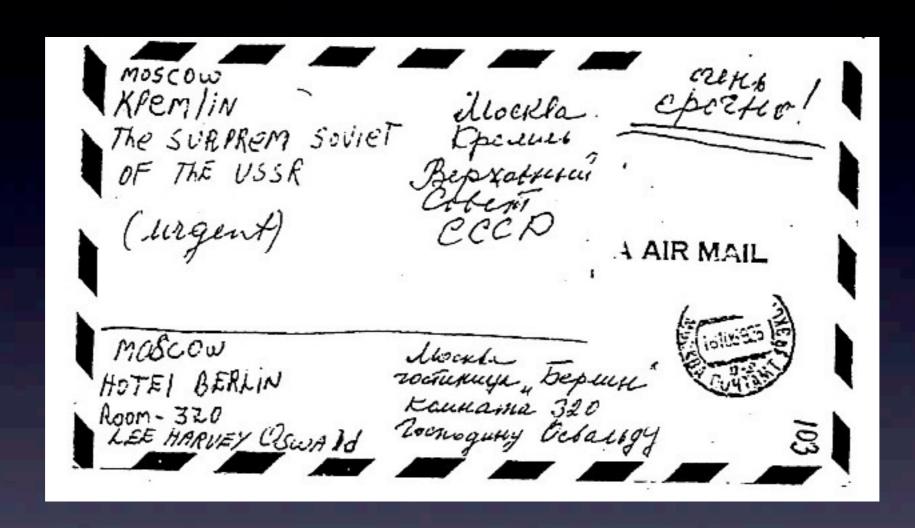


What Fucked It Up?



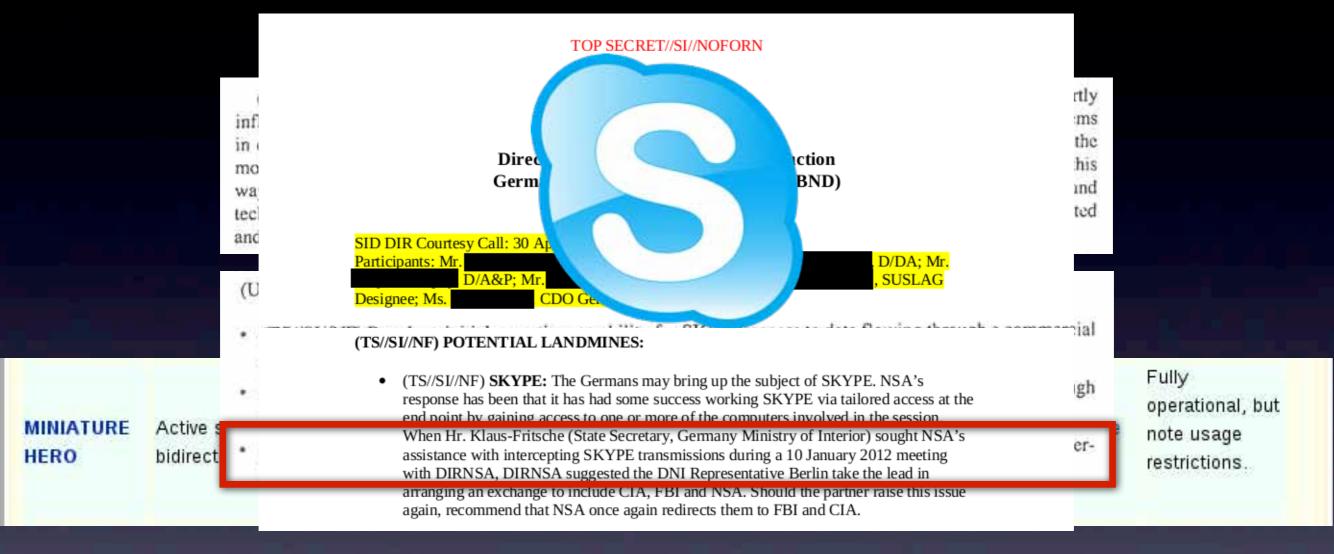
- Technique Already Identified & Compromised
- Pervasive Surveillance Designed To Expose Exactly This Type Of Access Correlation
- Deleted Things Aren't
- Understand & Manage Insecure Channels
 - Quality Of Information Check, "What If?"

Common Broken/Compromised Services



- Commercial Webmail
 - Run Your Own Mailserver
 - Metadata's Still A Bitch

Common Broken/Compromised Services



- Skype
 - PRISM, SIGINT Enabling, JTRIG, Forced "Upgrades", Pre-MS EOL
 - Fuck Skype

Common Broken/Compromised Services

Why are we interested in HTTP?

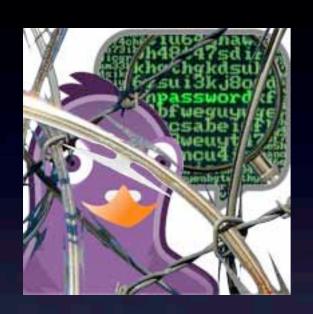
- · Almost all web-browsing uses HTTP:
 - Internet surfing
 - Webmail (Yahoo/Hotmail/Gmail/etc.)
 - OSN (Facebook/MySpace/etc.)
 - Internet Searching (Google/Bing/etc.)
 - Online Mapping (Google Maps/Mapquest/etc.)

XKS HTTP Activity Search

Another common query is analysts who want to see all traffic from a given IP address (or IP addresses) to a specific website.

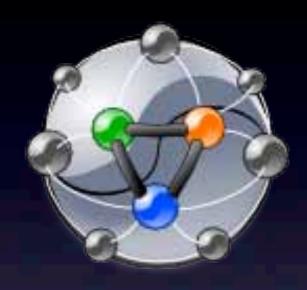
- Many Chats
 - Let's Just Assume IRC Is All Collected
 - Why Not Grab 6667 Like 80?
 - TLS Only Protects You To The Server
 - QUANTUMBOT
 - GChat's "Off The Record" Isn't The Same As OTR
 - That First OTR Message

What Might Not Be Completely Fucked









- Some OTR Implementations (But Which Ones?)
- Cryptocat?
- Bitmessage?
- Retroshare?
- We Need More:
 - Auditing
 - Steganography

So what if I'm a glasshole? You are too.



Steganography: Hiding In Plain Sight

(U) Analytics for Targets in Europe

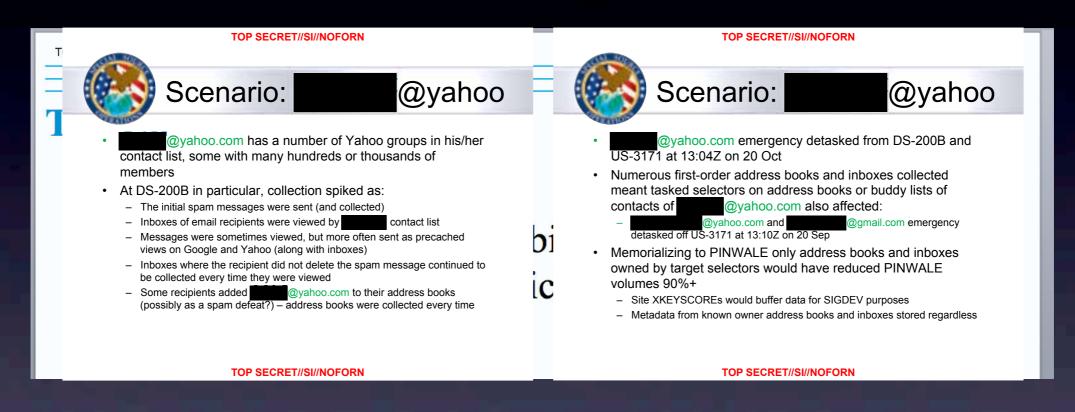
- · (C//FVEY) OPSEC Savvy Targets
 - · "...most terrorists stop thru Europe"
- (TS//FVEY) Use advanced techniques
 - Steganography
 - · Forensics or Analytics on front end
 - Encryption
 - · Takes time and has "black hole" issue
- · (TS//SI//FVEY) Reliance on "special" collection
 - GCHQ and FAA
 - Problems processing w/r to TS







Steganography: Hiding In Plain Sight



- Reported But Docs Not Released:
 - P2P Traffic High Volume/Low Value
 - GCHQ TEMPORA Minimizes, 30% Ingest Reduction
 - Need To Hide In This Flood

Steganography: Hiding In Plain Sight

- 27. Unfortunately, there are issues with undesirable images within the data. It would appear that a surprising number of people use webcam conversations to show intimate parts of their body to the other person. Also, the fact that the Yahoo software allows more than one person to view a webcam stream without necessarily sending a reciprocal stream means that it appears sometimes to be used for broadcasting pornography.
- 28. A survey was conducted, taking a single image from each of 323 user ids. 23 (7.1%) of those images contained undesirable nudity. From this we can infer that the true proportion of undesirable images in Yahoo webcam is $7.1\% \pm 3.7\%$ with confidence 95%.

[edit] Potentially Undesirable Images

We use face detection to try to censor material which may be offensive but this does not work perfectly so you should read the following before using OPTIC NERVE:

- It is possible to handle and display undesirable images.
 There is no perfect ability to censor material which may be offensive. Users who may feel uncomfortable about such material are advised not to open them.
- You are reminded that under GCHQ's offensive material policy, the dissemination of offensive material is a disciplinary offence.
- Retrieval of or reference to such material should be avoided; see IB 150 for guidance on dealing with offensive material



H4x0rz: Lose The Ego

```
<CW-1> you mother fuckers are going to get me raied ["raided,"
i.e., arrested]
<CW-1> HAHAHAAHA
<@sup_g> we put out 30k cards, the it.stratfor.com dump, and
another statement
<@sup_g> dude it's big..
<CW-1> raided
<CW-1> if I get raided anarchaos your job is to cause havok in
my honor
<CW-1> <3
<CW-1> sup_g:
<@sup_g> it shall be so
```

⁹ For example, in a chat with the defendant on or about December 26, 2011, discussed in greater detail below, CW-1 referred to the defendant as both "sup_g" and "anarchaos." The defendant responded to both aliases. In a chat with CW-1 over Jabber on or about November 6, 2011, the defendant, using the alias "yohoho," told CW-1 "k im sup_g," that is, identifying himself as both "yohoho" and "sup g."

- Burner Rules For IDs
- IRL Identity Real And Separate
- Know & Compartmentalize Pseudonyms
- Cred Is Another Enemy
- Really Burn Them, No Really

Don't Fuck It Up, And After You Do:

- Contingency Planning
- Plausible Deniability
- Adversary Capability
- Seek Advice In Advance



- Support Those Who Provide It
- Good Luck & Never Surrender To Obedience







Stylometrics: Don't Fuck It Up

- Resist Providing A Corpus
- Obfuscate
 - Machine Translate
- Imitate
- Alpha Tools: JStylo/Anonymouth



