

RSA[®]Conference2017

San Francisco | February 13–17 | Moscone Center

POWER OF
OPPORTUNITY

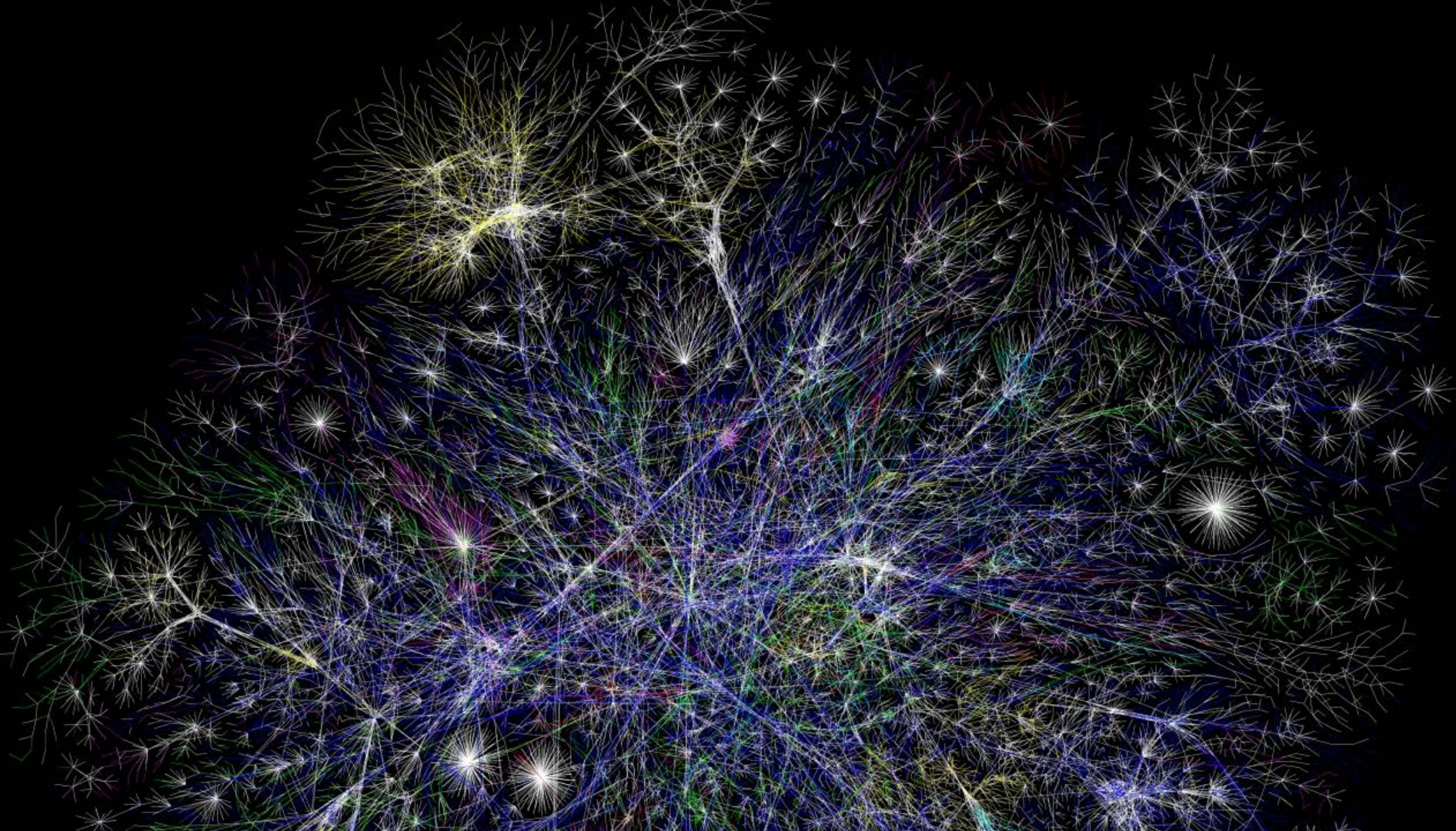
SESSION ID: HT-R02

Tracking Darknet: A Window into Attackers' Motives, Methods, and Targets

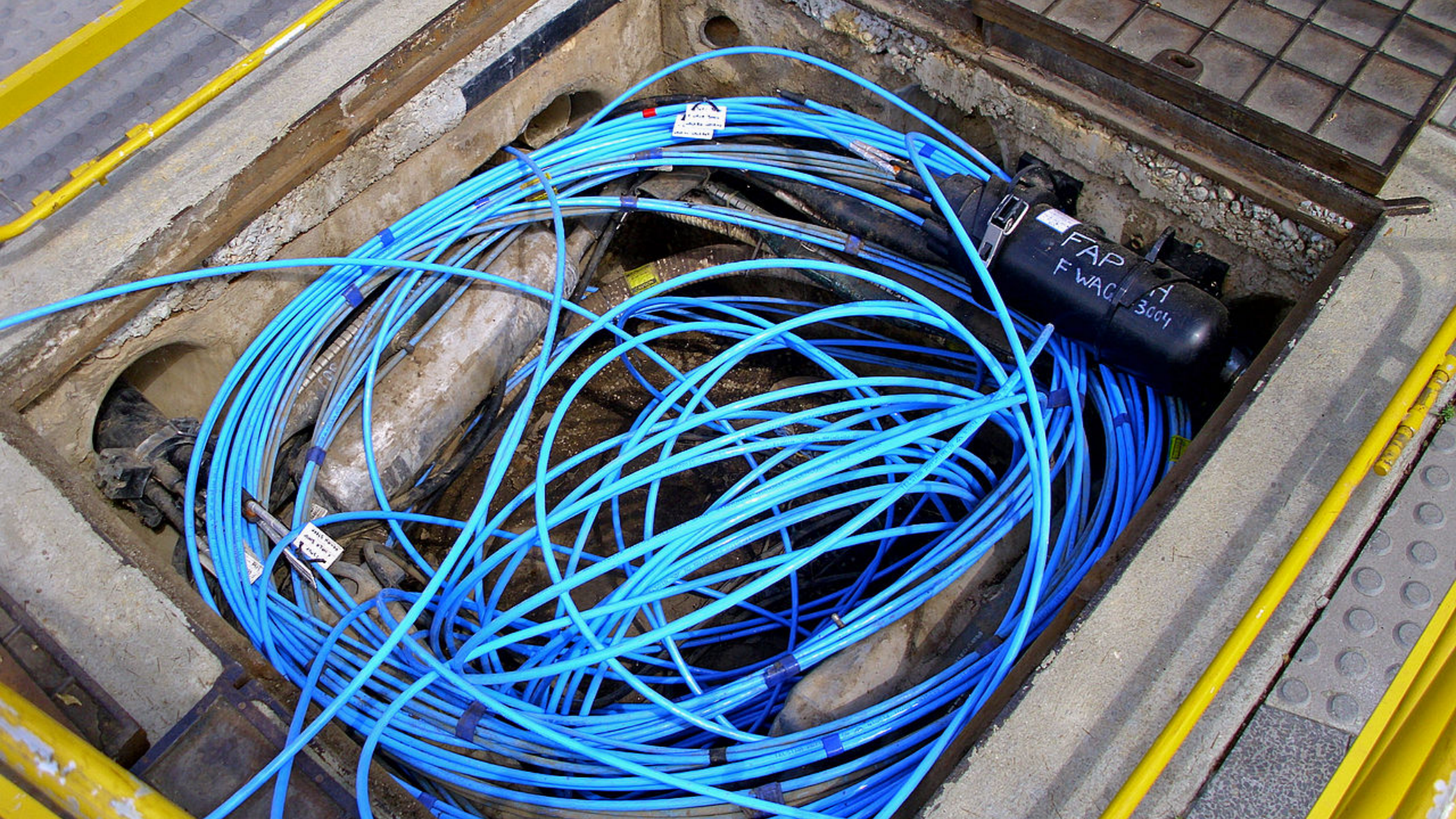


Andrew Lewman

F<RSIGHT
SECURITY









Octave Klaba / Oles

@olesovhcom

Follow

Last days, we got lot of huge DDoS. Here, the list of "bigger that 100Gbps" only. You can see the simultaneous DDoS are close to 1Tbps !

```
log /home/vac/logs/vac.log-last | egrep "pps\|.....  
bps" | awk '{print $1,$2,$3,$6}' | sed "s/ /|/g" | cut -f  
1,2,3,7,8,10,11 -d '|' | sed "s/.....bps/Gbps/" | sed  
"s/.....pps/Mpps/" | cut -f 2,3,4,5,6,7 -d ":" | sort | g  
rep "gone" | sed "s/gone|/"  
Sep 18 10:49:12 tcp_ack 20Mpps 232Gbps  
Sep 18 10:58:32 tcp_ack 15Mpps 173Gbps  
Sep 18 11:17:02 tcp_ack 19Mpps 224Gbps  
Sep 18 11:44:17 tcp_ack 19Mpps 227Gbps  
Sep 18 19:05:47 tcp_ack 66Mpps 735Gbps  
Sep 18 20:49:27 tcp_ack 81Mpps 360Gbps  
Sep 18 22:43:32 tcp_ack 11Mpps 136Gbps  
Sep 18 22:44:17 tcp_ack 38Mpps 442Gbps  
Sep 19 10:13:57 tcp_ack 10Mpps 117Gbps  
Sep 19 11:53:57 tcp_ack 13Mpps 159Gbps  
Sep 19 11:54:42 tcp_ack 52Mpps 687Gbps  
Sep 19 12:51:57 tcp_ack 10Mpps 115Gbps  
Sep 20 01:40:02 tcp_ack 22Mpps 191Gbps  
Sep 20 01:40:47 tcp_ack 93Mpps 799Gbps  
Sep 20 01:50:07 tcp_ack 14Mpps 124Gbps  
Sep 20 01:50:32 tcp_ack 72Mpps 615Gbps  
Sep 20 03:12:12 tcp_ack 49Mpps 419Gbps  
Sep 20 11:57:07 tcp_ack 15Mpps 178Gbps  
Sep 20 11:58:02 tcp_ack 60Mpps 698Gbps  
Sep 20 12:31:12 tcp_ack 17Mpps 201Gbps  
Sep 20 12:32:22 tcp_ack 50Mpps 587Gbps  
Sep 20 12:47:02 tcp_ack 18Mpps 210Gbps  
Sep 20 12:48:17 tcp_ack 49Mpps 572Gbps  
Sep 21 05:09:42 tcp_ack 32Mpps 144Gbps  
Sep 21 20:21:37 tcp_ack 22Mpps 122Gbps  
Sep 22 00:50:57 tcp_ack 16Mpps 191Gbps  
You have new mail in /var/mail/root
```

RETWEETS

713

LIKES

553



10:37 PM - 21 Sep 2016



713

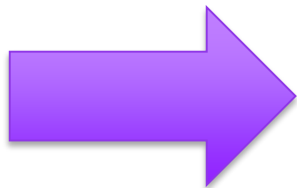


553

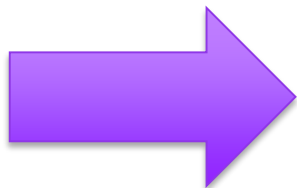


Octave Klaba / Oles @olesovhcom · Sep 23

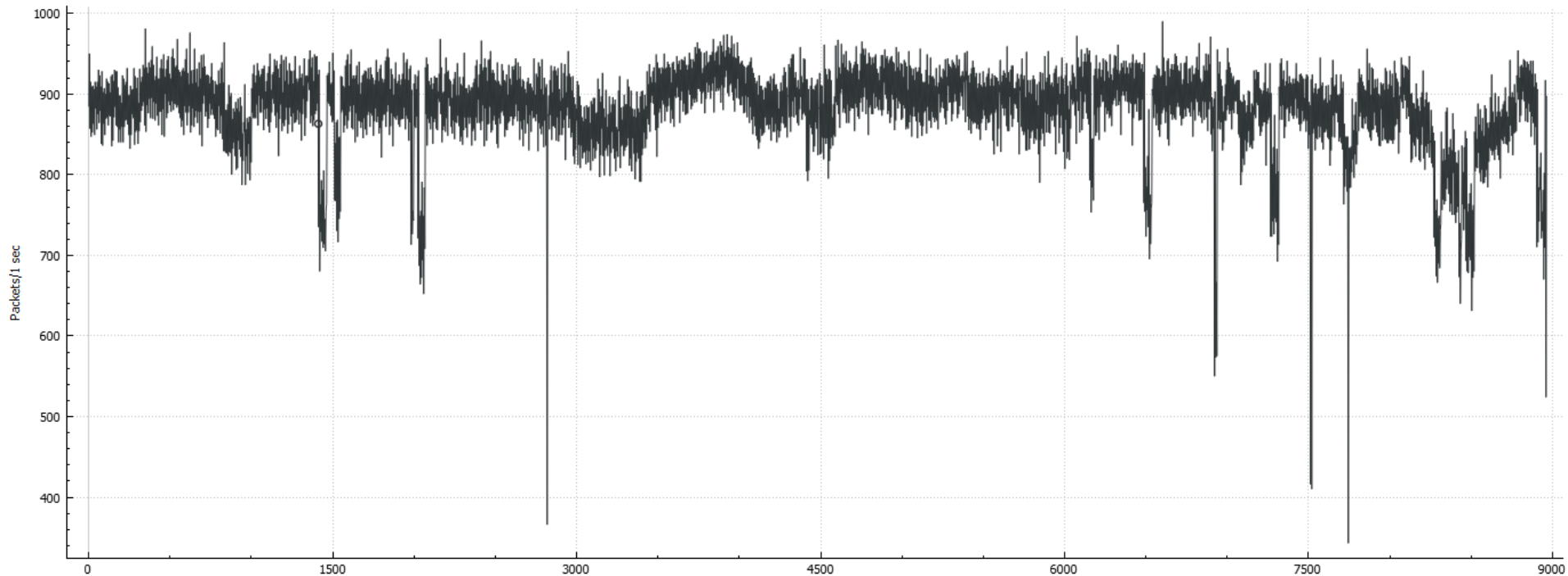
This botnet with 145607 cameras/dvr (1-30Mbps per IP) is able to send >1.5Tbps DDoS. Type: tcp/ack, tcp/ack+psh, tcp/syn.



```
log /home/vac/logs/vac.log-last | egrep "pps\|.....  
bps" | awk '{print $1,$2,$3,$6}' | sed "s/ /|/g" | cut -f  
1,2,3,7,8,10,11 -d '|' | sed "s/.....bps/Gbps/" | sed  
"s/.....pps/Mpps/" | cut -f 2,3,4,5,6,7 -d ":" | sort | g  
rep "gone" | sed "s/gone|/"  
Sep|18|10:49:12|tcp_ack|20Mpps|232Gbps  
Sep|18|10:58:32|tcp_ack|15Mpps|173Gbps  
Sep|18|11:17:02|tcp_ack|19Mpps|224Gbps  
Sep|18|11:44:17|tcp_ack|19Mpps|227Gbps  
Sep|18|19:05:47|tcp_ack|66Mpps|735Gbps  
Sep|18|20:49:27|tcp_ack|81Mpps|360Gbps  
Sep|18|22:43:32|tcp_ack|11Mpps|136Gbps  
Sep|18|22:44:17|tcp_ack|38Mpps|442Gbps  
Sep|19|10:13:57|tcp_ack|10Mpps|117Gbps  
Sep|19|11:53:57|tcp_ack|13Mpps|159Gbps  
Sep|19|11:54:42|tcp_ack|52Mpps|607Gbps  
Sep|19|22:51:57|tcp_ack|10Mpps|115Gbps  
Sep|20|01:40:02|tcp_ack|22Mpps|191Gbps  
Sep|20|01:40:47|tcp_ack|93Mpps|799Gbps  
Sep|20|01:50:07|tcp_ack|14Mpps|124Gbps  
Sep|20|01:50:22|tcp_ack|17Mpps|145Gbps
```



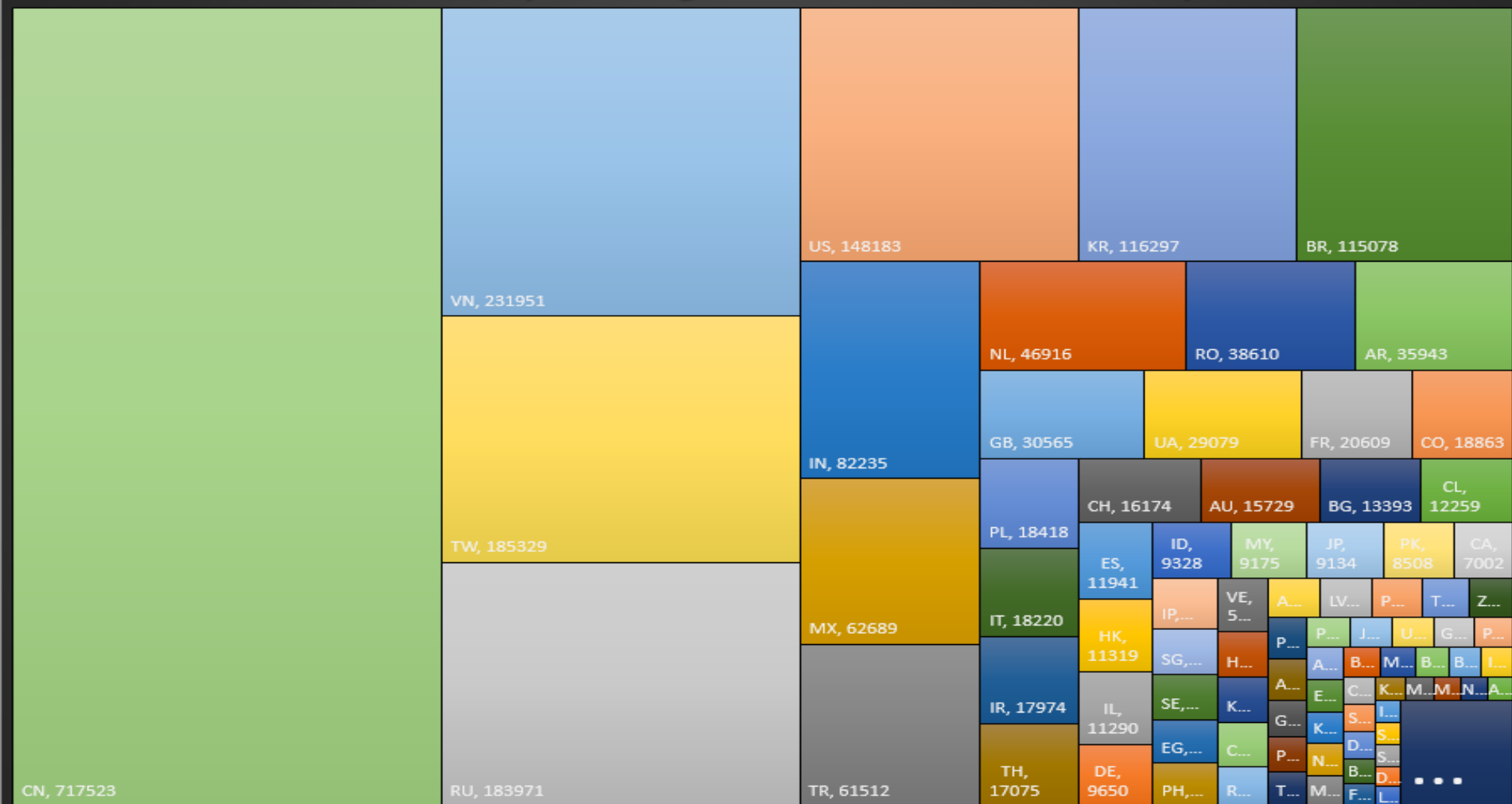
900 packets per second



Telnet/Mirai Probes

```
16:23:22.991398 IP 59.60.31.217.43527 > 204.7.69.194.socks: Flags [S], seq 2320092157, win 1024, length 0
16:23:23.629078 IP 187-75-229-41.dsl.telosp.net.br.15802 > 154.36.171.98.6789: Flags [S], seq 2586094434, win 5840, length 0
16:23:33.641533 IP 171.234.204.178.12061 > 204.7.252.132.telnet: Flags [S], seq 3423075460, win 53651, options [mss 1440], length 0
16:23:34.310444 IP 218.19.151.209.50351 > 207.60.134.88.telnet: Flags [S], seq 1929643311, win 5440, options [mss 1360,sackOK,TS val 314719626 ecr 0,nop,wscale 2], length 0
16:23:35.080082 IP b140cd74.virtua.com.br.18569 > 199.98.56.108.telnet: Flags [S], seq 30890, win 14600, length 0
16:23:35.760851 IP 120.132.51.207.57603 > 128.145.94.32.http-alt: Flags [S], seq 2078144182, win 65535, length 0
16:23:37.014059 IP 59.29.126.135.53553 > 143.240.188.187.telnet: Flags [S], seq 80084992, win 14600, length 0
16:23:38.464603 IP 220-133-165-203.HINET-IP.hinet.net.17512 > 204.6.38.75.telnet: Flags [S], seq 3422955083, win 19226, length 0
16:23:40.760649 IP 163.53.207.132.15753 > 128.145.17.112.6789: Flags [S], seq 2156990832, win 5840, options [mss 1460], length 0
16:23:42.014120 IP b1c2a7c3.virtua.com.br.25873 > 154.36.251.89.telnet: Flags [S], seq 2751463424, win 14600, length 0
16:23:43.103045 IP 211-75-155-189.HINET-IP.hinet.net.23073 > 206.85.122.93.telnet: Flags [S], seq 3461708381, win 48629, length 0
16:23:44.661941 IP static.res.bb.93157192244.dslon.ws.12104 > 154.36.148.57.telnet: Flags [S], seq 2586088505, win 8691, options [mss 1452], length 0
16:23:54.672787 IP researchscan392.eecs.umich.edu.44975 > 154.36.49.119.ftp: Flags [S], seq 3378586162, win 65535, length 0
16:23:55.508711 IP 122-116-189-95.HINET-IP.hinet.net.12100 > 148.254.185.185.telnet: Flags [S], seq 1716781056, win 14600, length 0
16:23:55.991600 IP 119.99.208.6.56405 > 136.161.176.11.telnet: Flags [S], seq 8490, win 14600, length 0
16:23:56.925751 IP 88.ppp-dhcp.logic.bm.30208 > 204.7.201.216.telnet: Flags [S], seq 50210, win 14600, length 0
16:23:57.695047 IP 219-85-61-196-adsl-TPE.STATIC.so-net.net.tw.20988 > 204.7.177.231.telnet: Flags [S], seq 3423056359, win 17388, length 0
16:23:58.147429 IP 118.117.156.140.58523 > 128.145.52.209.telnet: Flags [S], seq 2156999889, win 4467, length 0
16:23:58.859666 IP 114-35-56-24.HINET-IP.hinet.net.65460 > www.primecard.com.telnet: Flags [S], seq 3510463045, win 34764, length 0
16:24:03.650930 IP 122-117-86-17.HINET-IP.hinet.net.11557 > 136.161.96.78.telnet: Flags [S], seq 2292277326, win 5720, length 0
16:24:04.277736 IP 109-162-85-119-lzv.broadband.kyivstar.net.25555 > 204.6.52.86.telnet: Flags [S], seq 3422958678, win 45849, length 0
16:24:05.980931 IP www.telnetscanproject.org.38126 > 154.36.11.84.48202: Flags [S], seq 3863422755, win 65535, length 0
16:24:05.980932 IP adsl-188-158-48-187.sabanet.ir.58731 > 204.7.158.127.7547: Flags [S], seq 3423051391, win 5840, length 0
16:24:16.057458 IP 220-134-254-179.HINET-IP.hinet.net.52831 > 204.7.54.247.telnet: Flags [S], seq 3423024887, win 50945, length 0
16:24:16.354087 IP 222.104.240.140.44176 > 206.84.178.150.1900: UDP, length 94
16:24:27.935755 IP 218-161-93-132.HINET-IP.hinet.net.59551 > 149.67.139.247.telnet: Flags [S], seq 806813696, win 14600, length 0
16:24:27.552139 IP 176-8-98-120-rov.broadband.kyivstar.net.34982 > 207.60.27.252.telnet: Flags [S], seq 3476823036, win 27002, length 0
16:24:28.190323 IP 88.247.126.157.dynamic.ttnet.com.tr.51608 > 206.85.126.190.telnet: Flags [S], seq 3189637120, win 14600, length 0
16:24:30.332667 IP 37-229-25-18-dne.broadband.kyivstar.net.60182 > 204.7.31.91.telnet: Flags [S], seq 3423018843, win 56096, length 0
16:24:30.332667 IP 116.108.47.199.46597 > 154.36.120.17.telnet: Flags [S], seq 2880962560, win 14600, options [mss 1452], length 0
16:24:40.716903 IP 175-182-230-91.adsl.dynamic.seed.net.tw.50036 > 199.98.9.85.microsoft-ds: Flags [S], seq 1608674812, win 16384, options [mss 1440,nop,wscale 0,nop,nop,sackOK], length 0
16:24:40.815850 IP 122-117-66-238.HINET-IP.hinet.net.13689 > 149.67.231.86.telnet: Flags [S], seq 2504255318, win 19495, length 0
16:24:41.783598 IP static.vnpt.vn.21216 > 206.84.73.203.telnet: Flags [S], seq 4145741824, win 14600, options [mss 1452], length 0
16:25:01.804833 IP 124.107.103.161.pldt.net.58689 > 206.85.98.192.telnet: Flags [S], seq 3549018702, win 5808, options [mss 1452,sackOK,TS val 3565279 ecr 0,nop,wscale 2], length 0
16:25:02.607476 IP 114-33-230-171.HINET-IP.hinet.net.5004 > 143.240.39.110.telnet: Flags [S], seq 2414880622, win 35894, length 0
16:25:03.201041 IP 176-8-108-93-rmn.broadband.kyivstar.net.13905 > 207.60.184.76.telnet: Flags [S], seq 3476863052, win 50879, length 0
16:25:04.059726 IP 111.225.110.44.24736 > 149.67.69.131.telnet: Flags [S], seq 1258677456, win 14520, options [mss 1452,sackOK,TS val 46691432 ecr 0,nop,wscale 4], length 0
```

Source Country in Farsight Darknet Data Stream Sample





dark net

All

News

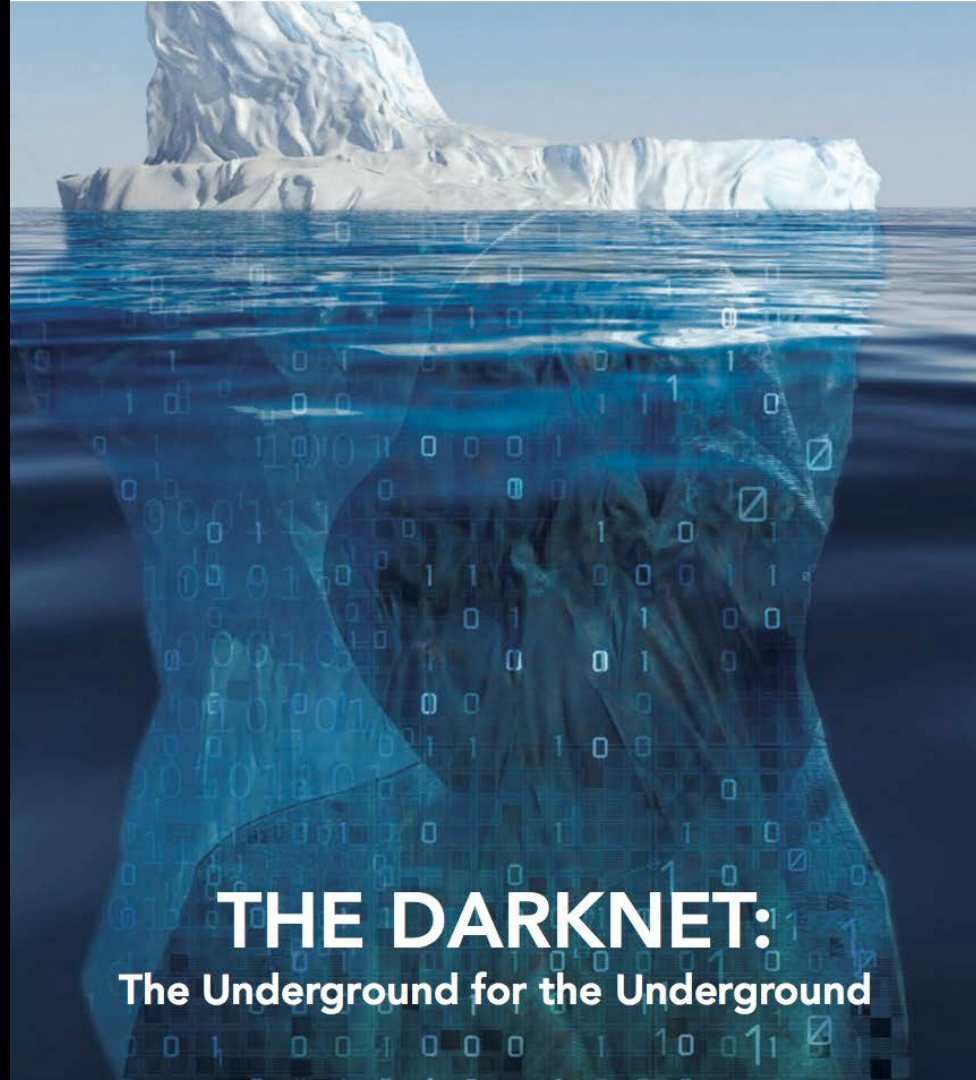
Videos

Images

Books

More

About 1,120,000 results (0.62 seconds)

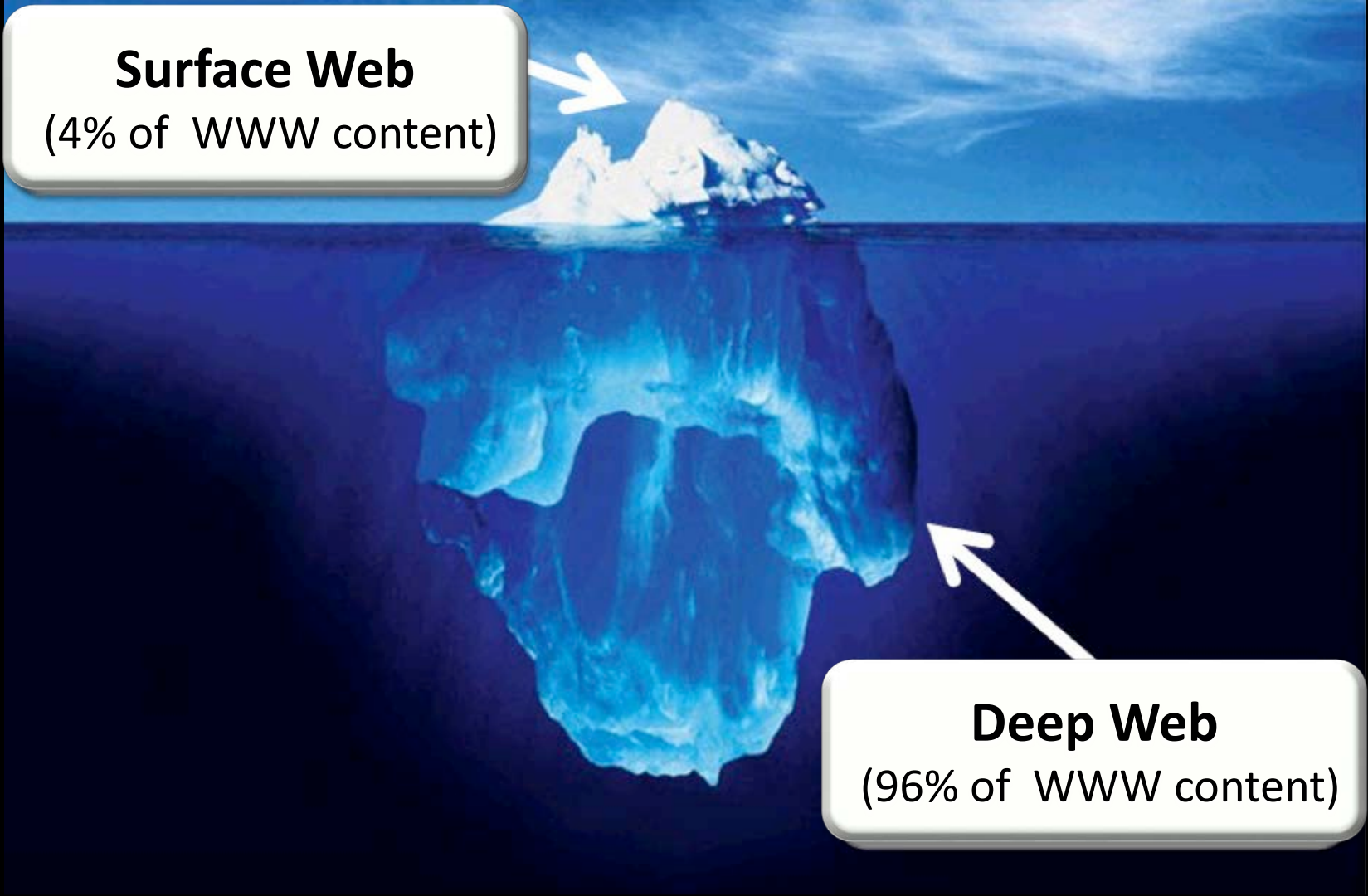


THE DARKNET:

The Underground for the Underground

Surface Web
(4% of WWW content)

Deep Web
(96% of WWW content)



Surface Web. 315 million
domain names.
 2^{32} and 2^{128} IP address
space.



Dark Net
Tor is 2^{80} address space.

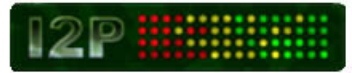
Many crypto. So anon.



パーフェクトダーク



Freenet



Many Darknet.
So Confuse...

Tor	Tribler
I2P	GNUNet
Freenet	OneSwarm
Gigatribes	ZeroNet
RetroShare	Syndie





Search

Go

Hi,
settings - logout



Drugs 229

- Cannabis 24
- Dissociatives 4
- Ecstasy 30
- Opioids 5
- Other 15
- Precursors 1
- Prescription 39
- Psychedelics 54
- Stimulants 17

Apparel 18

Art 0

Biotic materials 0

Books 11

Collectibles 0

Computer equipment 2

Custom Orders 0

Digital goods 3

Drug paraphernalia 5

Electronics 0

Erotica 0

Forgeries 16

Hardware 0

Herbs & Supplements 0

Jewelry 0

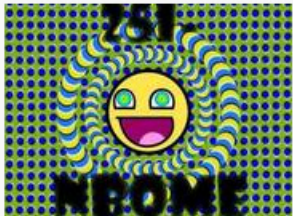
Lab Supplies 1

Lotteries & games 5

Medical 0

Money 3

browsing drugs

item	vendor	price	
 1g DMT Freebase	ringo deathstarr	B0.35672880	add to cart
 7g (1/4oz) P.Cubensis Powder	magicted	B0.16030500	add to cart
 FREE 25i-NBOMe 1mg blotter sample	eternalpsy	B0.00000000	add to cart
			

Popularity of No-longer Existent HSes

HS Address	Requests/Day	Days Observed	Description
177ukkijtdca2tsy	679,470	9	Botnet Sefnit
7sc6xyn3rrxtknu6	525,930	11	Botnet Sefnit
pomyeasfnmtn544p	514,766	10	Botnet Sefnit
ceif2rmdoput3wjh	247,296	6	Botnet Sefnit
censored	6,603	10	Child Abuse

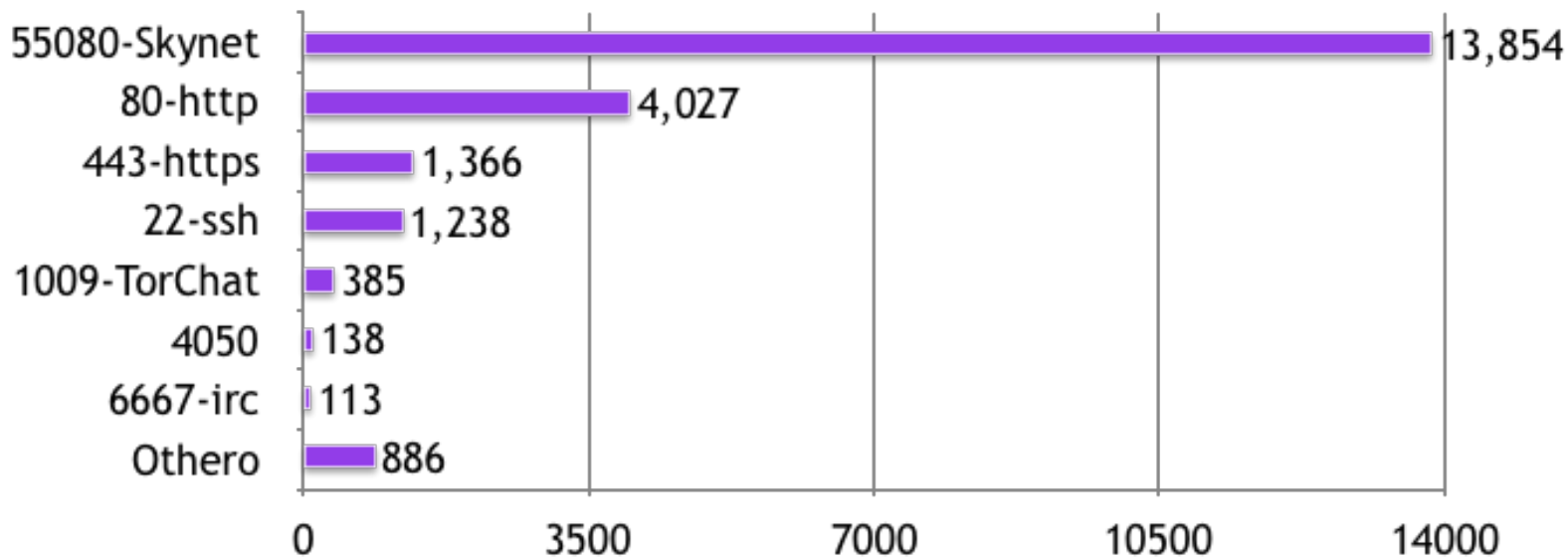
Source: Global Commission on Internet Governance, The Tor Dark Net, September 2015

Non-sequential Snapshot of Popular HSEs

HS Address	Requests/Day	Days Observed	Description
Censored	168,152	12	Child Abuse
silkroad6ownowfk	8,067	11	Silk Road
agorabasakxmewww	3,035	8	Agora
k5zq47j6wd3wdvjq	2,589	5	Evolution
xmh57jrznw6insl	1,341	7	Torch
3g2upl4pq6kufc4m	1,223	4	DuckDuckGo
wikitjerrta4ggz4	555	12	HiddenWiki
mail2tor2zyjdctd	266	8	Mail

Source: Global Commission on Internet Governance, The Tor Dark Net, September 2015

Hidden Service Open Ports



Source: "Content and popularity analysis of Tor hidden services", November 2014

What's the relevance of this data?

- Actual usage vs possible usage
- Actual size of the darknet is tiny
- Botnets love the darknet



Search

Go

Hi, hrtshpdbx
logout



Shop by Category



Grilled Cheese Sandwich

₪0.0534 [add to cart](#)

seller: Z1Supplies(91)
ships from: United States of America
ships to: USA and Canada
category: Food

[bookmark this item](#)

postage options:

Priority (₪0.0387)



[report this item](#)

Description

Grilled Cheese Sandwich. Tomato soup not included. Some assembly required.



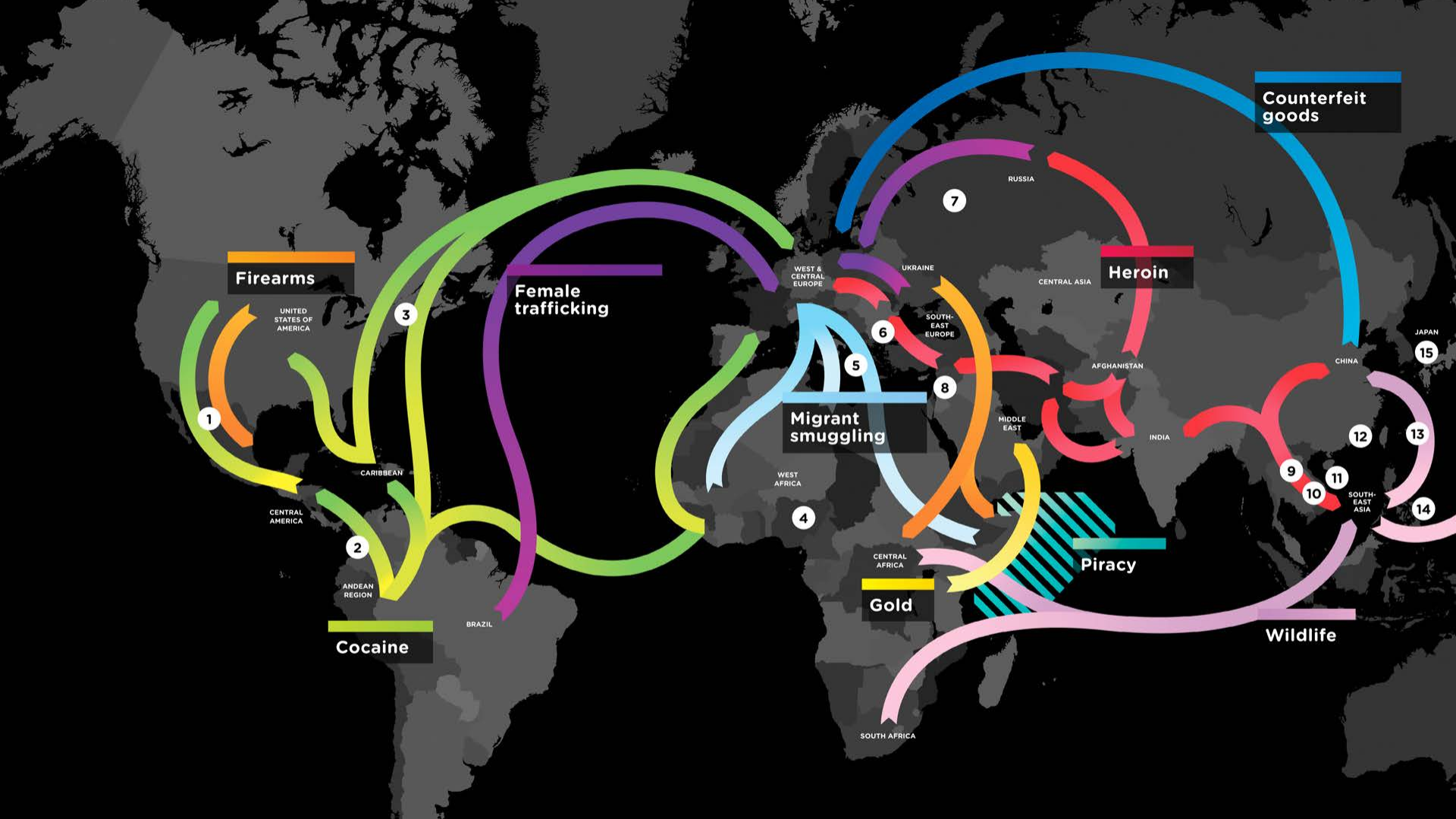


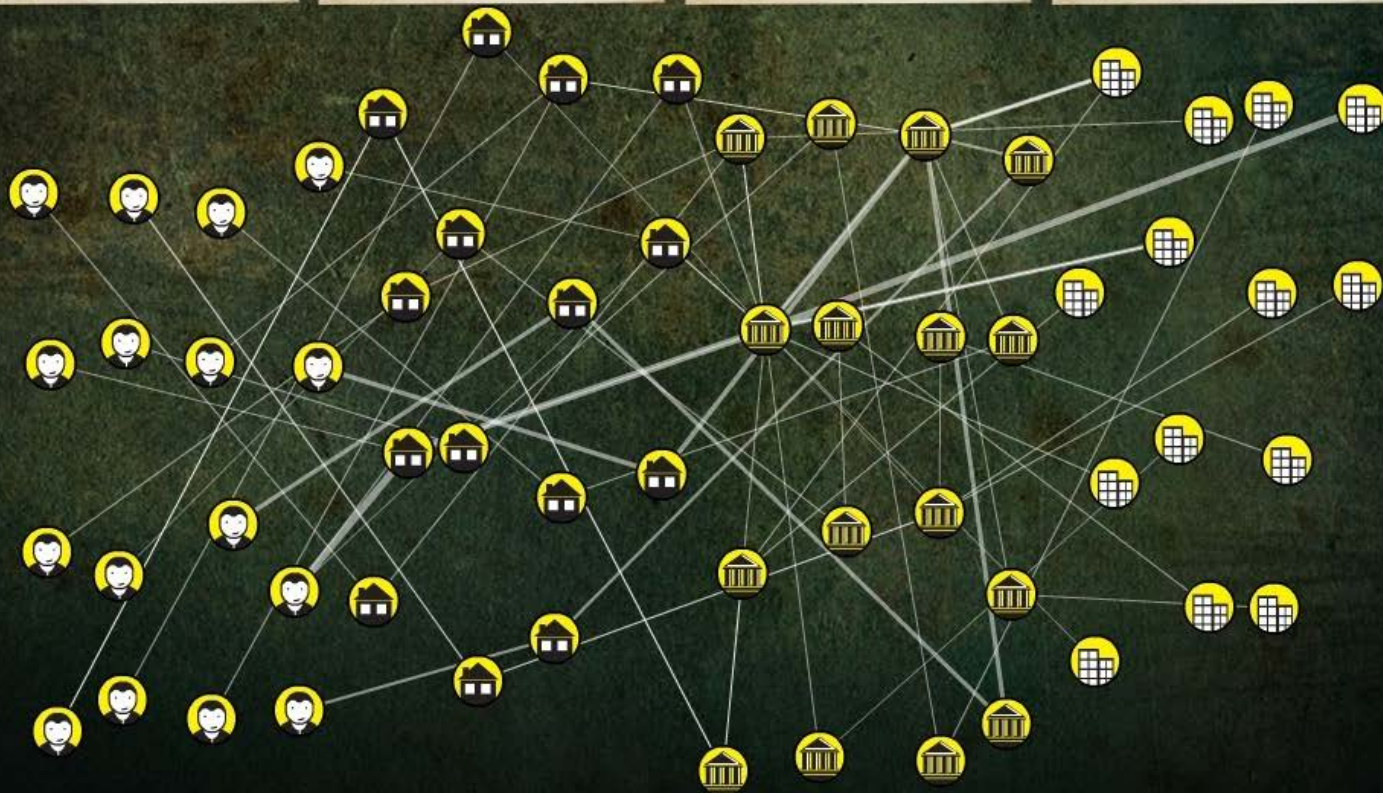
ALL LOADING TO
BE DONE ONLY IN
THE SHOOTING AREA

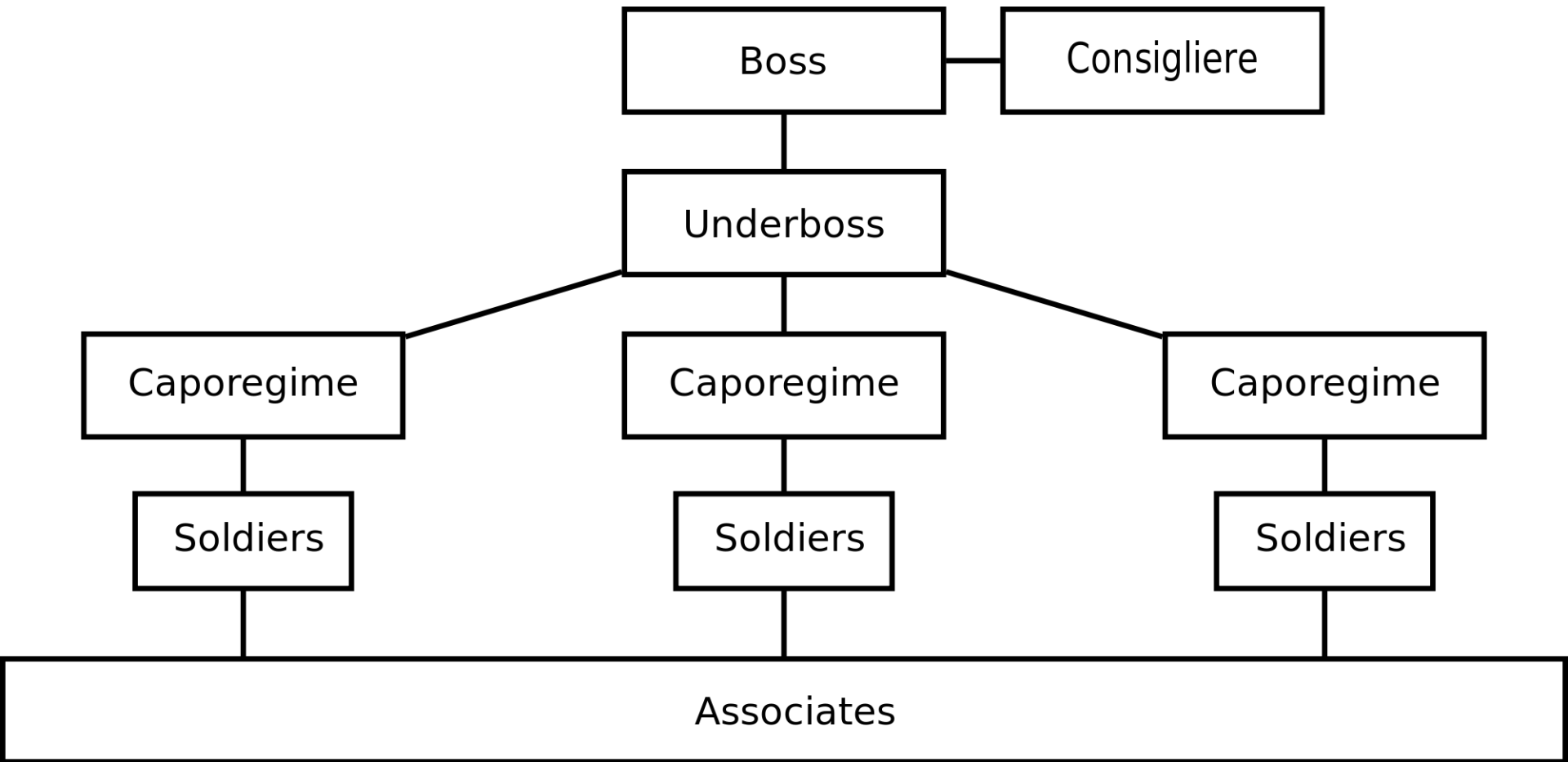
NO GUN
CLEANING OR
PREMISES



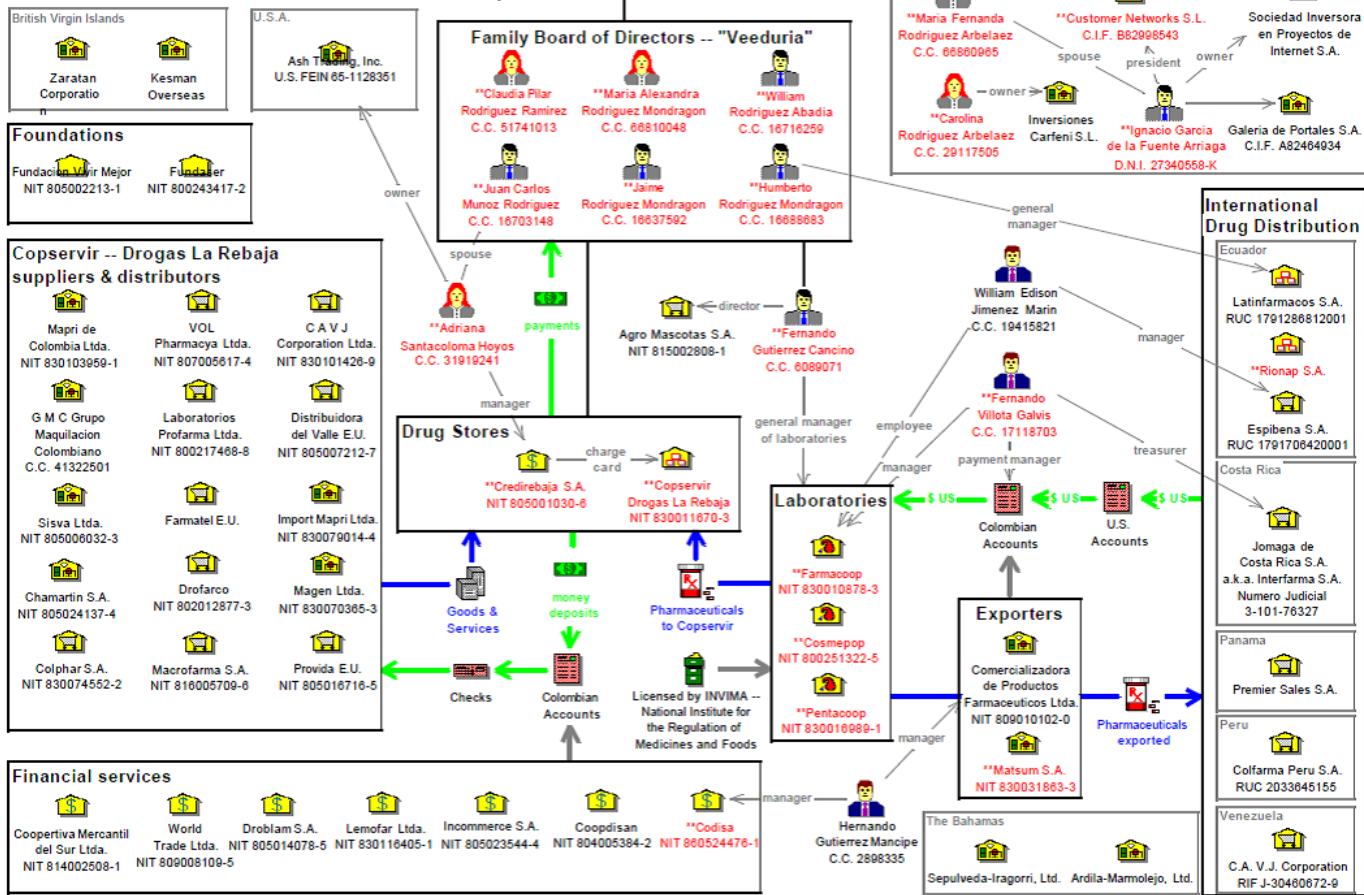
Massage Therapist







**Cali Cartel Fronts
International Network
October 2003**



Ring Leader

Trustee

Technical
experts

Skimming
cells

Online
trader

Runner
coordinator

Mule
herder

Goods
reseller



Obtains the cards through
ATM and PoS tampering



Buys or sells
tools, kits
and cards



Cashes out
at ATM



Purchases
online and
reships



Resells
purchased
goods

Misconceptions

-Tor.exe is not dropped, it is injected

-Yes, this is an HTTP bot, not a RAT. It works through a web server, not straight to your computer.

Please understand this:

RAT:

Slave -> Master

HTTP bot:

Slave -> Server -> Master

It's simply a controller that works in place of a web panel. It provide extra security, as a web panel can be scanned for, but a controller can NOT.

-Yes, the GUI isn't the best. Functionality > looks. It'll be cleaned up.

Technical details

- Version: 1.0.0.0
- Coded in C#.
- Dependencies: .NET Framework 2.0

Features:

- Download-Execute
- Update
- Uninstall
- Password Recovery
 - > Supported browsers: Internet Explorer, Firefox, Chrome, Opera, Safari
- A feature I will not name to prevent from moving to the SST section. They're rather powerful methods.

Price:

- **100 USD.** We accept only Bitcoin and Litecoin for yours and our safety and privacy.

CLOUD COMPUTING



Dashboard

[Dashboard](#) [Pools](#) [Workers](#) [About](#)

Last updated on : Tuesday, 24th of April 2012 at 16:52:44

Recent work submissions

Worker	Pool	Result	Time
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:43 CEST
user	BTCguild	Accepted	24-04-2012 18:52:42 CEST

Recent failed work submissions

Worker	Pool	Time
user	BTCguild	24-04-2012 18:52:13 CEST
user	BTCguild	24-04-2012 18:52:12 CEST
user	BTCguild	24-04-2012 18:52:12 CEST
user	BTCguild	24-04-2012 18:52:08 CEST
user	BTCguild	24-04-2012 18:52:04 CEST

Worker status

Worker	Last work request	Last accepted submission	Shares*	Rejected*	Hashing speed*	Actions
user	At 24-04-2012 18:52:43 CEST from BTCguild	At 24-04-2012 18:52:43 CEST to BTCguild	1483	25 (1.69%)	10615.727 MHash/s	  

Clone CC : No.1 Trusted onion site for Cloned Credit Card. \$2000/\$5000 balance available

<http://ccccrckysxm6avu.onion>

CRAWLED ON: OCT 27, 2016, 12:10:03 AM

Body Details

Metadata Details

All Cards 14

Visa 11

MasterCard 2

American Express 1

SS Numbers 5

Email Addresses 1

Our URL is Verify it before you order. clonecc@tutanota.com
Welcome back! Thank you for giving us another chance to provide promised funds.

All cards are skimmed and cloned. Every card is written by high quality Oday to 90days. Every card is verified for funds and validity by us. We ship all of our cards via FedEx Standard Overnight within 24 hours. Free CC dump of June 2014. We also sell dump 1&2 tracks. E
First Name : William

Middle Name : K

Last Name : Black

Spouse Name :

Father Name :

Billing Address : 65 Autumn Creek Lane Apt C

Clone CC : No.1 Trusted onion site for Cloned Credit Card. \$2000/\$5000 balance available

<http://ccccrckysxxm6avu.onion>

CRAWLED ON: OCT 27, 2016, 12:10:03 AM

Body Details

Metadata Details

All Cards 14

Visa 11

MasterCard 2

American Express 1

SS Numbers 5

Email Addresses 1

File Size:

14.6 kB

Domain:

ccccrckysxxm6avu.onion

Full URL:

<http://ccccrckysxxm6avu.onion>

HTTP HEADERS

HttpStatus: HTTP/1.1 200 OK

Content-type: text/html

Date: Thu, 27 Oct 2016 04:10:03 GMT

Transfer-Encoding: chunked

Server: lighttpd/1.4.33

X-Powered-By: PHP/5.5.9-1ubuntu4.5

Interesting Metadata

X-Powered-By: PHP/5.5.9-1ubuntu4.5

Released 2014-10-29

<https://launchpad.net/ubuntu/+source/php5/> versus

<https://launchpad.net/ubuntu/+source/php5/5.5.9+dfsg-1ubuntu4.20>

15 CVE's behind current version.



SHODAN EXPLOITS

lighttpd/1.4.33

Search

Results found: 2

Use-after-free vulnerability in **lighttpd** before **1.4.33** allows remote attackers to cause a denial of service (segmentation fault and crash) via unspecified vectors that trigger FAMMonitorDirectory failures.

lighttpd before **1.4.33** does not check the return value of the (1) `setuid`, (2) `setgid`, or (3) `setgroups` functions, which might cause **lighttpd** to run as root if it is restarted and allows remote attackers to gain privileges, as demonstrated by multiple calls to the `clone` function that cause `setuid` to fail when the user process limit is reached.



Top Countries	
United States	24
Germany	4
Colombia	3
China	3
Ireland	2

Source: <https://exploits.shodan.io/?q=lighttpd%2F1.4.33>

Authors [46]

- ☐ Shiny-Flakes (93)
- ☐ National Institute of Justice (7)
- ☐ Adobe Acrobat 9.54 Paper Capture Plug-in (6)
- ☐ NONE (5)
- ☐ Adobe Acrobat 9.55 Paper Capture Plug-in (4)
- ☐ Adobe PDF Library 4.0 (4)
- ☐ Uncle Fester (3)
- ☐ Acrobat Distiller 5.0.5 (Windows) (3)
- ☐ Acrobat Distiller 4.0 for Windows (3)
- ☐ GPL Ghostscript 8.60 (2)
- ☐ Dave Klein (1)
- ☐ Christopher Tilley, Wayne Bennett (1)
- ☐ Acrobat PDFWriter 3.03 for Windows (1)
- ☐ Gregory J Chaitin (1)
- ☐ David Garfinkle & Richard Garfinkle (1)
- ☐ Adobe Acrobat 7.0 Image Conversion Plug-in (1)
- ☐ Myers, Richard L. (1)
- ☐ SPDF (1)
- ☐ John C. Brenner (1)
- ☐ <http://rutor.is/torrent/514407> (1)
- ☐ Roger Sabin (edt) (1)
- ☐ Sarah Pink (1)
- ☐ Erowid.org (1)
- ☐ Greenberg, Barbara R.; Patterson, Dianne. (1)
- ☐ Adobe PDF Library 9.0 (1)
- ☐ Mitnick, Kevin D.; Simon, William L. (1)

Adele Hall

<http://pinkmwiibcnugpom.onion/Adele-Hall/page-2.html>

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☐ Jill-Slater-Pink Meth Archive

Jill Slater

<http://pinkmwiibcnugpom.onion/Jill-Slater/page-2.html>

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☐ Erin-Willms-Pink Meth Archive

Erin Willms

<http://pinkmwiibcnugpom.onion/Erin-Willms/page-2.html>

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☐ Chantel-Tiner-Pink Meth Archive

Chantel Tiner

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☐ Jennifer-Blee-Pink Meth Archive

Jennifer Blee

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☐ Stefanie-Evans-Pink Meth Archive

Stefanie Evans

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☐ Jacqui-Barbero-Pink Meth Archive

Jacqui Barbero

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☐ Cassandra-Fairbanks-Pink Meth Archive

Cassandra Fairbanks

<http://pinkmwiibcnugpom.onion/Cassandra-Fairbanks/page-2.html>

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Anonymous wrote on Oct 12, 2016, #0f91ee5990

[[open thread](#)]

I have child porn videos,how to share them with you guys ?

Anonymous wrote on Oct 12, 2016, #587e2fe6e3

>>[0f91ee5990](#)

<https://ipfstube.erindachtler.me/>

<https://github.com/micahflee/onionshare>

<http://storj.io/>

<http://tribler.org/>

or you can put the file in zeronet and publish it but file size will be the problem.

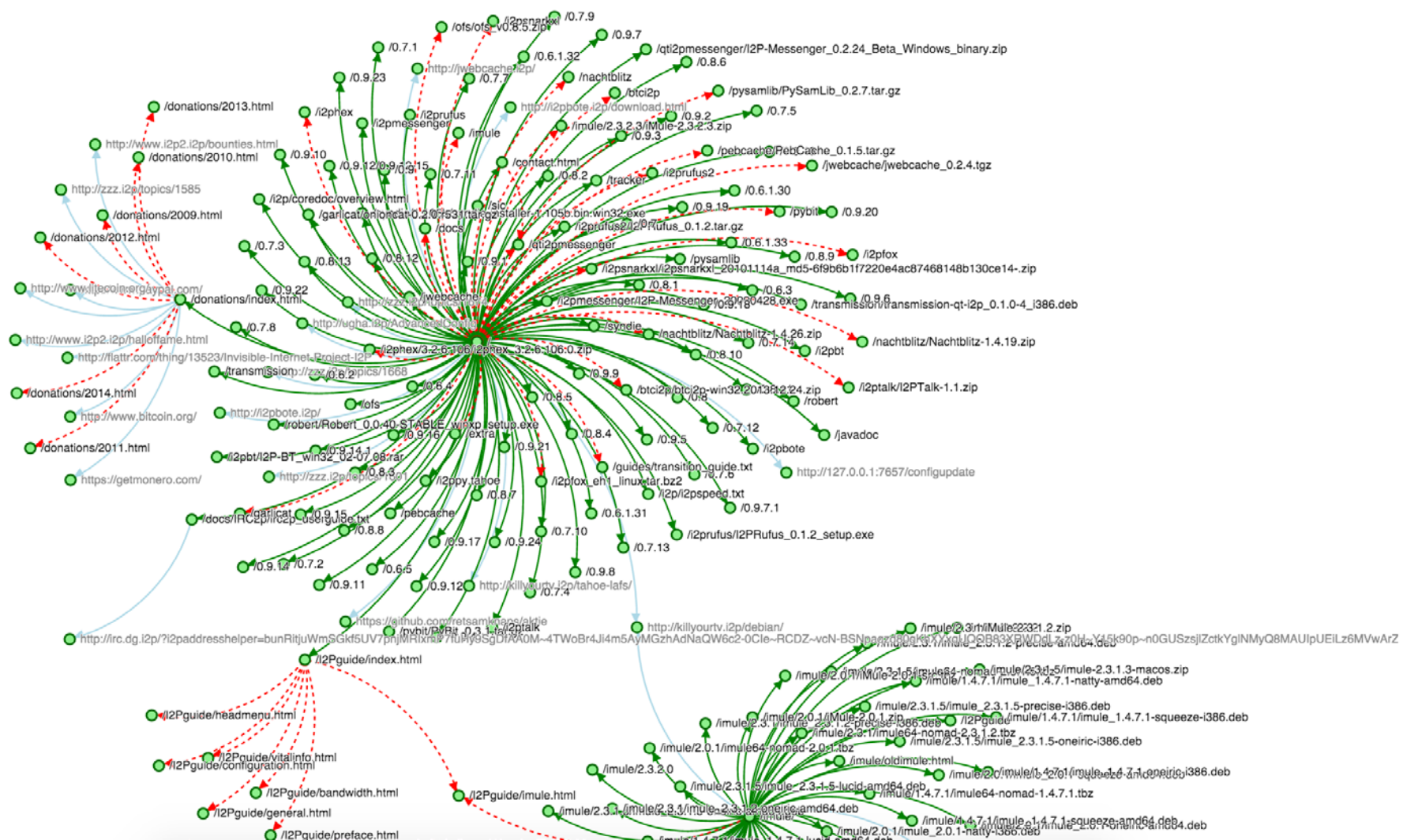
or you can try zerotube.

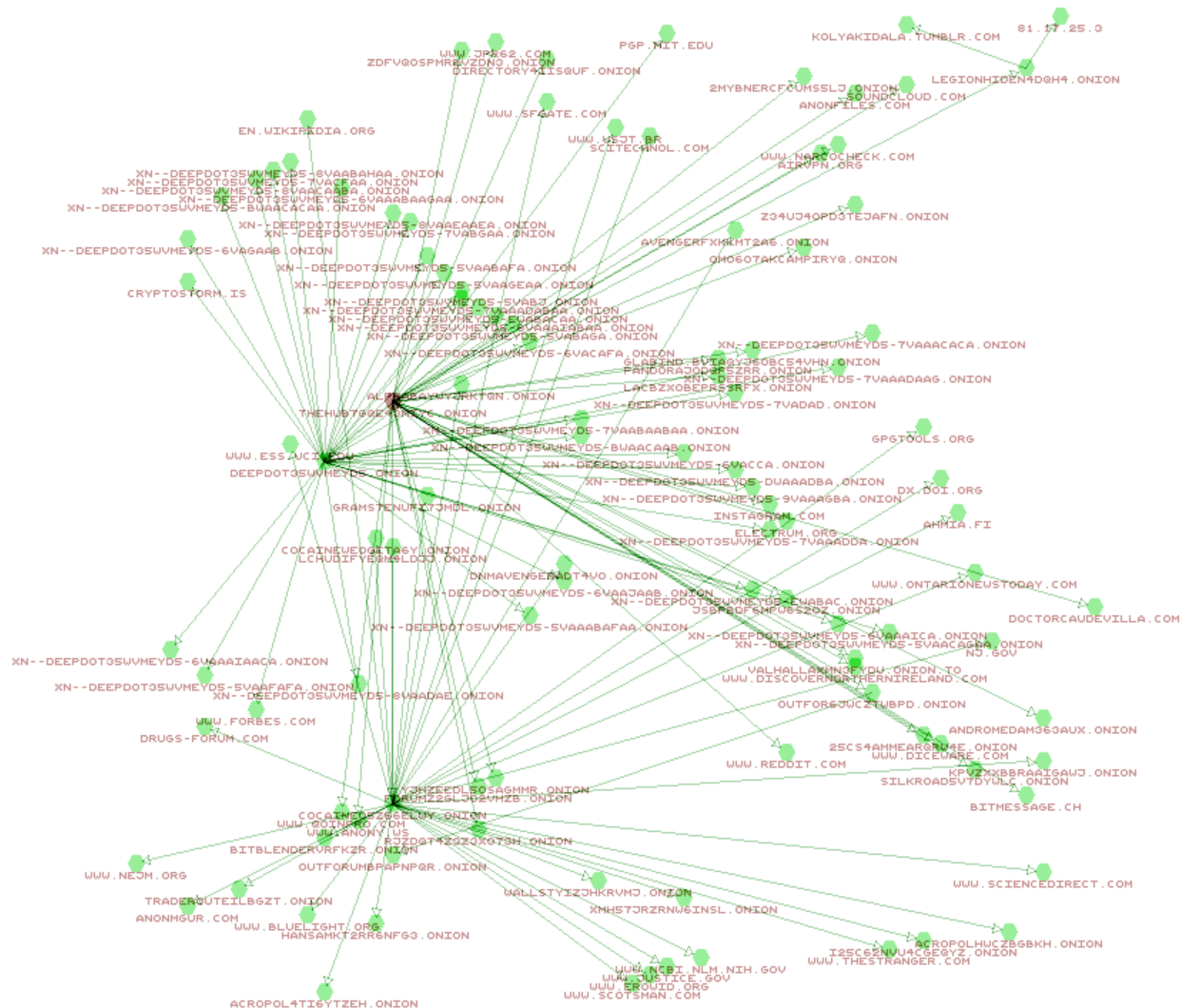
but i dont guaranty it will be secure.so watch out or FBI will sniff you but off.

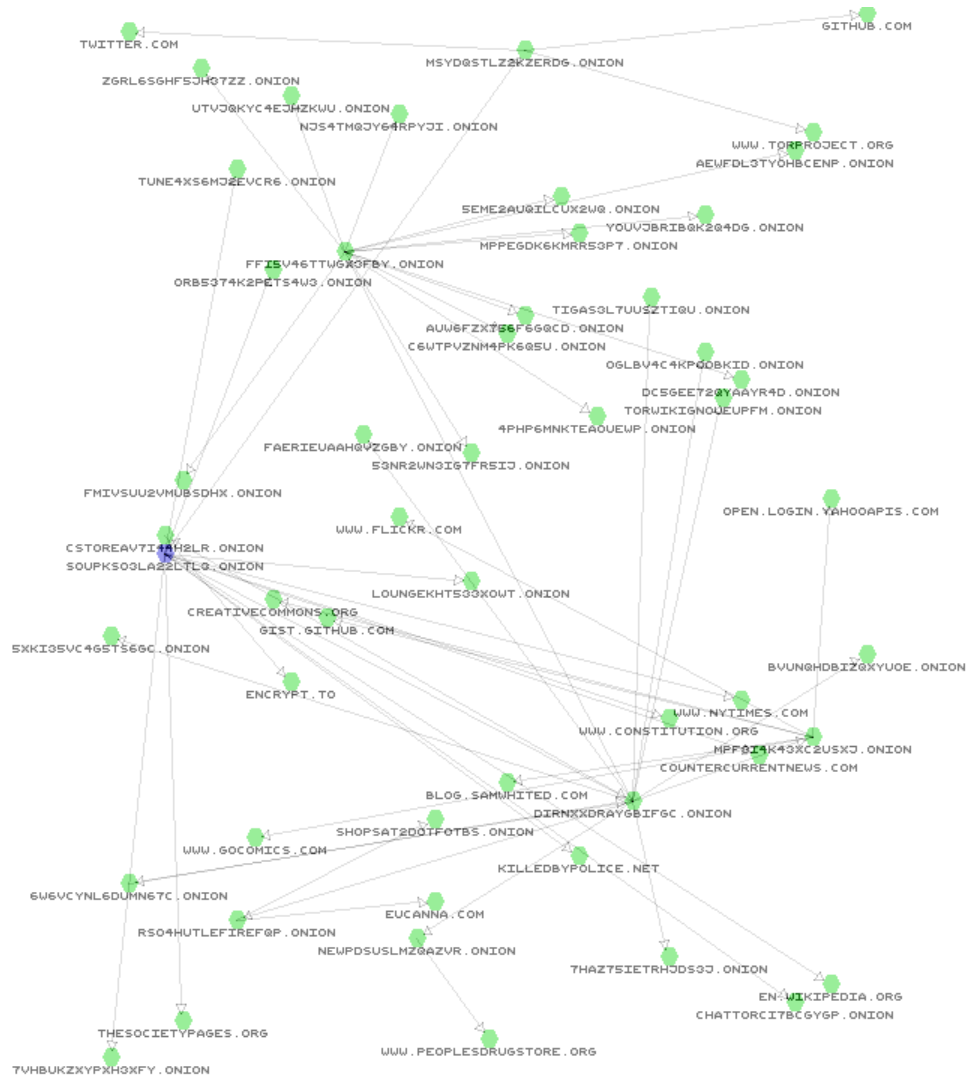
Anonymous wrote on Oct 12, 2016, #1440cb0f8a

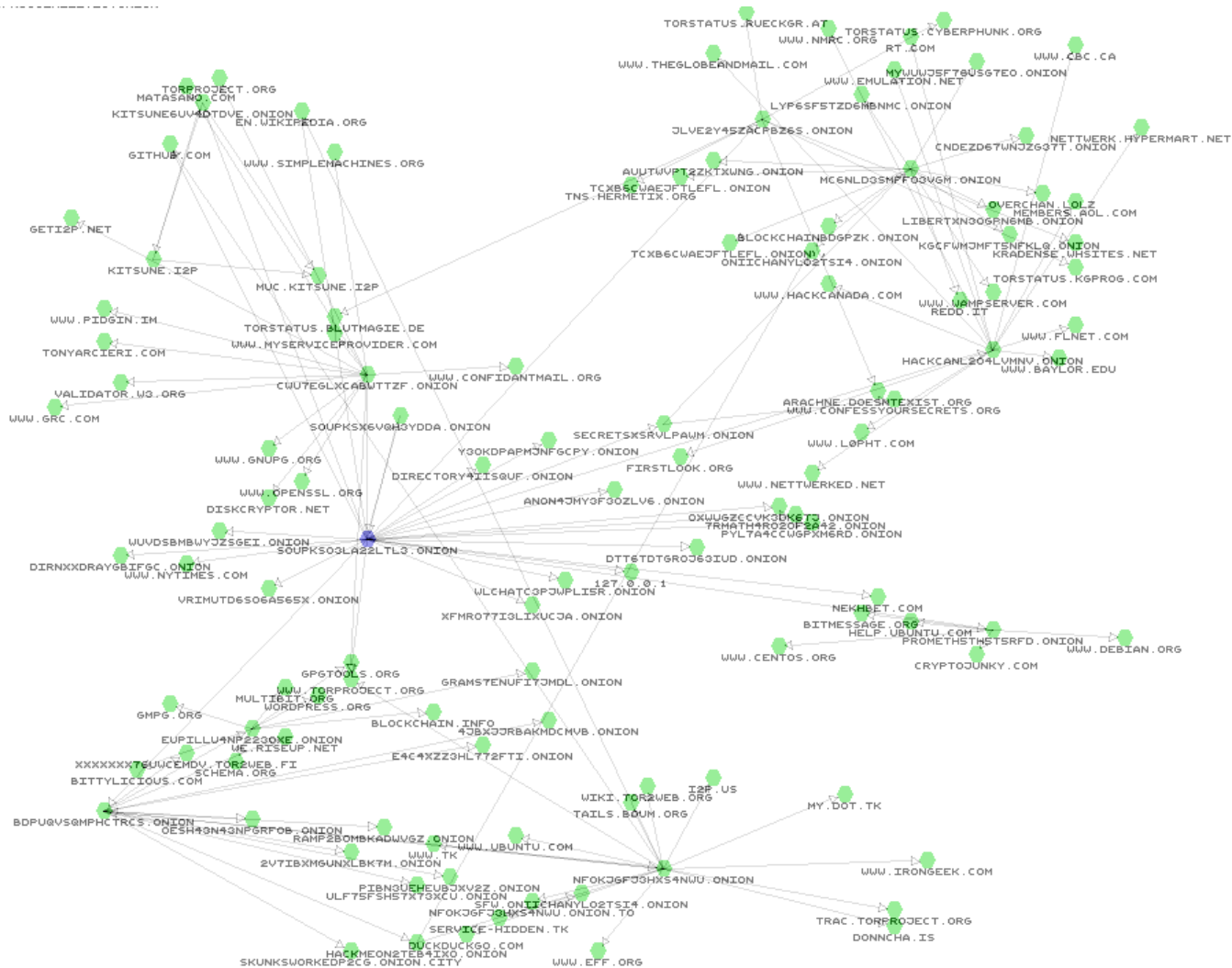
>>[587e2fe6e3](#)

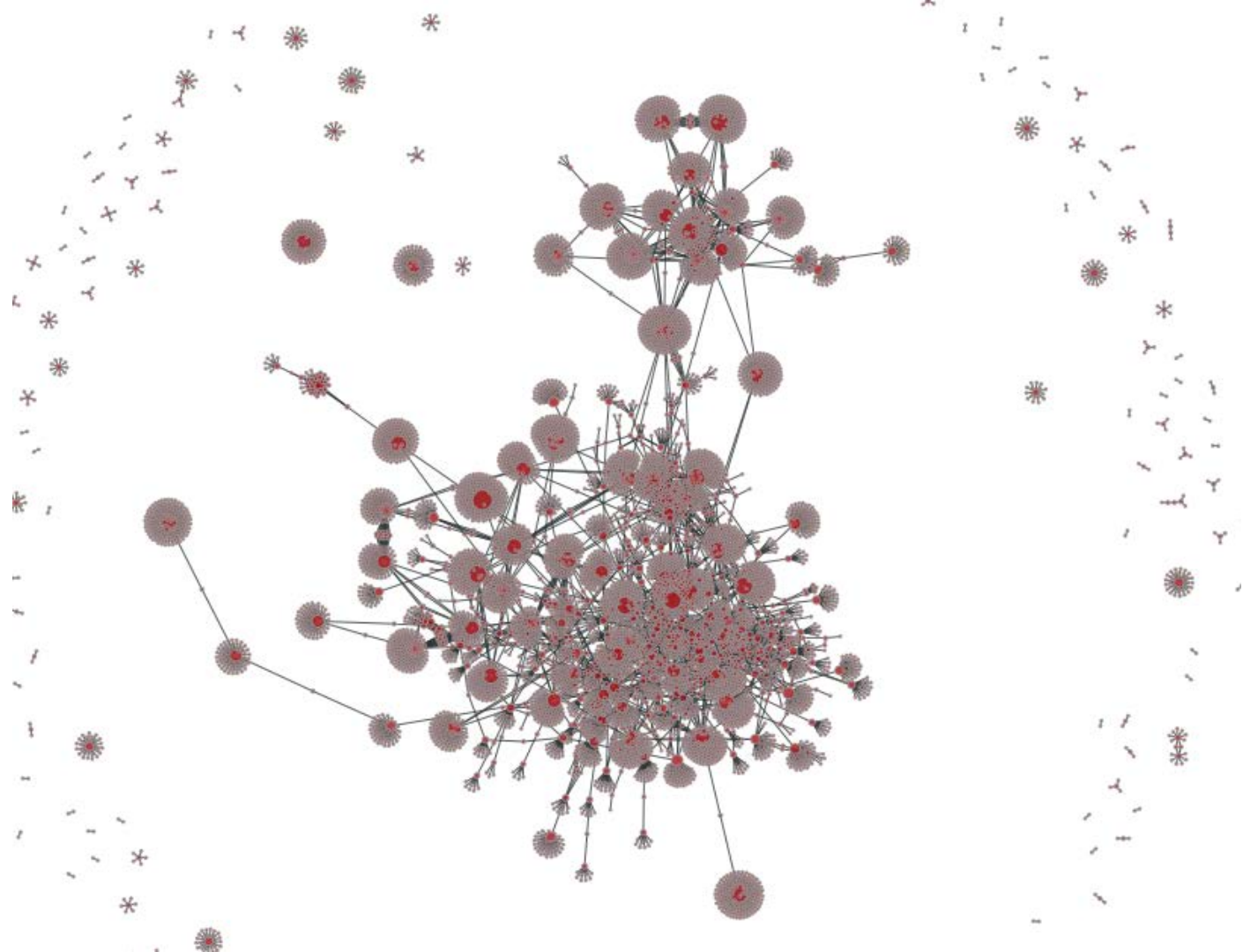
lets hope you arent american.

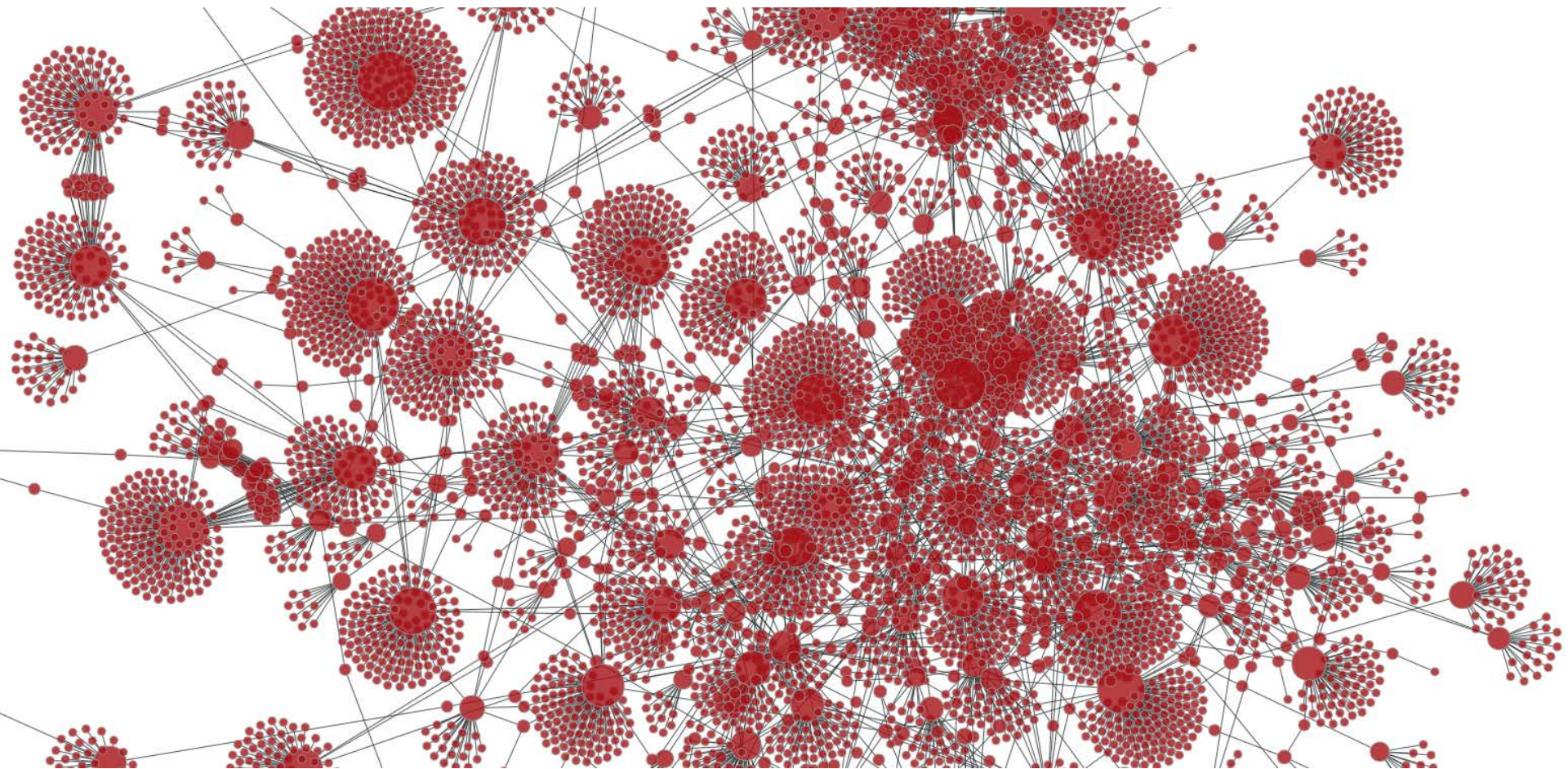












Summary

- Need to be aware of both darknets
- Old darknet is still very active and as dangerous as ever
- New darknet is tiny and the source of many emerging dangers

Any Questions?

Thank you!

F<RSIGHT
SECURITY