

BEHIND THE SCENES OF SHODAN

HI, I'M JOHN!

@ACHILLEAN

JMATH@SHODAN.IO

SHODAN

QUICK RECAP

SEARCH ENGINE OF INTERNET-CONNECTED DEVICES

GOOGLE FINDS WEBSITES

SHODAN FINDS DEVICES

Options

Receive Updates

Follow SHODAN on Twitter and get notified when the index gets updated and new services or features get added.

 [Follow me on Twitter](#)

Firefox Add-Ons

SHODAN Helper by Gianni ['quelfoweb'](#) Amato

A user-friendly interface to SHODAN search filters (country, hostname etc.). Also provides useful links to relevant websites for security research. After installation goto 'Tools -> Shodan' to activate it.

[Install Now](#)

SHODAN Search Provider by [sagar38](#)

If your Firefox doesn't support OpenSearch, then this add-on is for you. It adds SHODAN to the list of search engines in Firefox to make searching one-step closer.

[Install Now](#)

Quick guide

SHODAN lets you find servers/ routers/ etc. by using the simple search bar up above. Most of the data in the index covers web servers at the moment, but there is some data on FTP, Telnet and SSH services as well. Let me know which services interest you the most and I'll prioritize them in my scanning.

Lets say you want to find servers running the 'Apache' web daemon. A simple attempt would be to use:

[apache](#)

How about finding only apache servers running version 2.2.3?

[apache 2.2.3](#)

You can also narrow down the results using the following search parameters:

country:*2-letter country code*

hostname:*full or partial host name*

net:*IP range using CIDR notation (ex: 18.7.7.0/24)*

port:*21, 22, 23 or 80*

For example: get all web (port:80) hosts running 'apache' in switzerland (country:CH) that also have '.ch' in any of their domain names:

[apache country:CH port:80 hostname:.ch](#)

Have fun using SHODAN and use the feedback button on the right to let me know about problems or new feature requests.



5 MILLION

EXPOSE ONLINE DEVICES.

WEBCAMS. ROUTERS.
POWER PLANTS. IPHONES. WIND TURBINES.
REFRIGERATORS. VOIP PHONES.

[TAKE A TOUR](#)[FREE SIGN UP](#)

Popular Search Queries: Router w/ Default Info - Routers that give their default username/ password as admin/1234 in their banner.



DEVELOPER API

Find out how to access the Shodan database with Python, Perl or Ruby.



LEARN MORE

Get more out of your searches and find the information you need.



FOLLOW ME

Contact me and stay up to date with the latest features of Shodan.

IN THE PRESS

Shodan pinpoints shoddy industrial controls.



It greatly lowers the technical bar needed to canvas the Internet...



'Shodan for Penetration Testers' presented at DEF CON 18



It's a reminder to many to know what's on your network...



Shodan is the Google for hackers.



Shodan vereinfacht die Suche nach SCADA-Systeme erheblich...

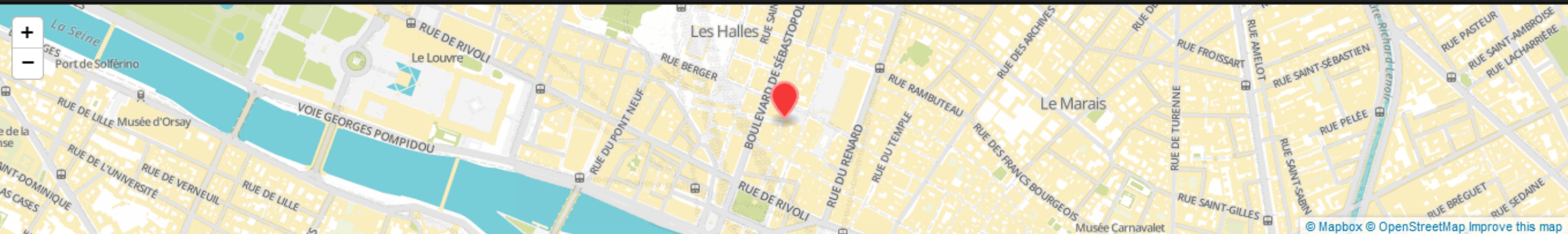


Firmen öffnen Stuxnet und Co. selbst die Tür.



Computerangriffe werden einfacher. Zumindest für die Nutzer von Shodan.





🌐 193.183.120.19

Country	France
Organization	InternetVikings Ltd
ISP	Resilans AB
Last Update	2014-04-20T04:46:28.451566

🗄 Ports

22

80

443

☰ Services

22

SSH

OpenSSH Version: 5.5p1 Debian 6+squeeze3

`SSH-2.0-OpenSSH_5.5p1 Debian-6+squeeze3`

80

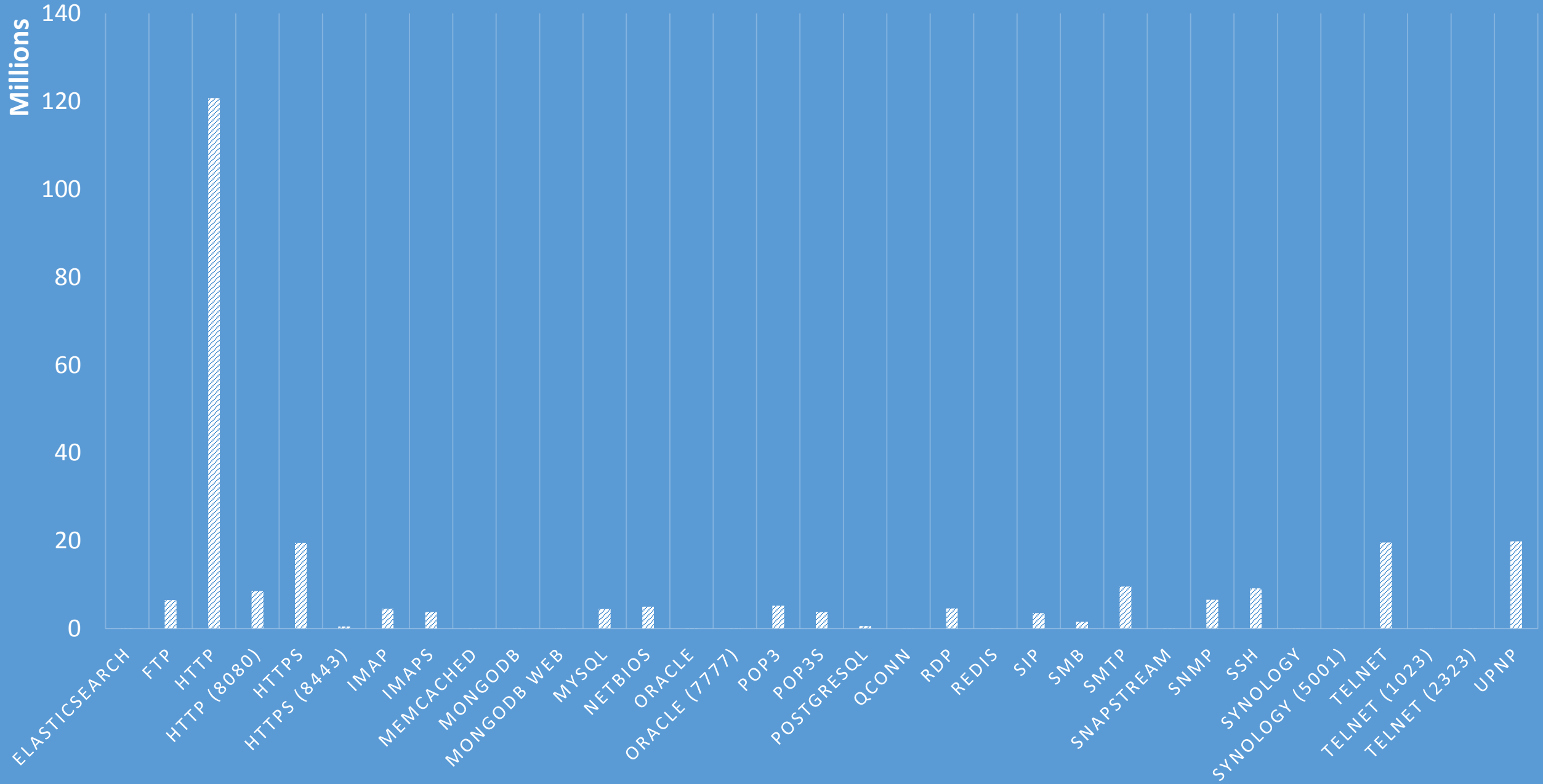
HTTP

mt-daapd DAAP

`HTTP/1.0 404 Not Found``Date: Sat, 19 Apr 2014 22:25:40 GMT``Content-Length: 0``Content-Type: text/plain; charset=ISO-8859-1`

100+ PORTS

SERVICES BY THE NUMBERS



550 MILLION DEVICES

2+ BILLION PER MONTH

A scene from the movie Toy Story showing Woody and Buzz Lightyear. Woody is on the left, looking slightly concerned. Buzz is on the right, wearing his iconic green and white space ranger suit with purple accents. He has a confident, slightly smug expression and is gesturing with his right hand, which has purple rings on the fingers. The background is a simple room with a door and some yellow stars on the wall.

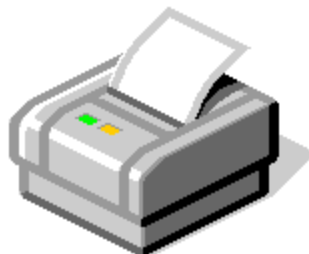
EMBEDDED DEVICES

EMBEDDED DEVICES EVERYWHERE

[Home](#)[Networking](#)[Device Info](#)[Select Language](#)

Device Info

Other Links

[Help](#)[Support](#)[HP Home](#)

Device: HP Color LaserJet 3600
Page Count: 25613
Status: ORDER CYAN CARTRIDGE
Host Name: wcvm-vthofficec
System Up Time: 07h:32m:27s
System Contact:
System Location:

HP JetDirect: J7973E
Firmware Version: V.30.31
IP Address: [REDACTED]
Hardware Address: 0014384458EC
Admin Password: <Not Set>

[Refresh](#)

Slideshow

Content

Quick Search



Backups



Documents



Movies



Music



Pictures



TimeMachine

Congratulations!

You have a web server running on your iPhone under `/var/www/`

You can place an `index.html` in `/var/www/` and enjoy!

[View Detail Data](#)

[Configure](#)

[Business Day](#)

[Deposit](#)

[Vend](#)

[BiComm](#)

[Safe Quick Reference](#)

**Store:
001944**

Last Pickup

██████████ 07:46

Last Update:

UNKNOWN

V3.2

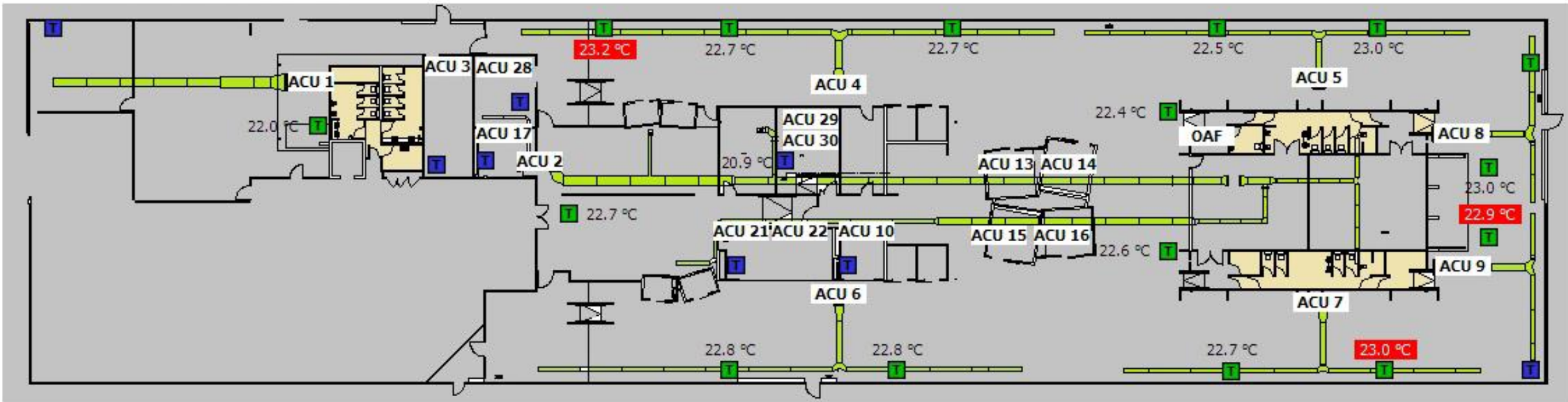


Armor Safe Technologies (800)835-6011 [Armor Safe Technologies](#)

LEVEL 3



Current Time : 17-Apr-13 5:28 PM E



- History
- Active Overrides

- EnergyMeter
- VRF Summary

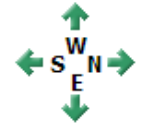
	Leak	Shut Off	Usage
North Kitchen	No Leak	Open	26940 L
South Kitchen	Leak Detected	Open	241140 L

- ▶ Roof
- ▶ Mezzanine



Library/Science

- AHU-1
- AHU-2
- MAU
- Chiller
- Heat Exchanger
- Exhaust



27/03/2013

07:06:50

VITESSE (VEHICULE) VEHICULE

0,00 m/s

43,2 m

21,3 m

COUPLE

0 %Cn

NIVEAU : 0

DEFAULTS
NIVEAUX 1/2

CONDUITE

REARMEMENT

DEFAULTS
NIVEAU 0DEFAULTS
VEHICULE

MONTEE

V 1

V 2

V 3

V 4

PORTES FERMEES

SHUNT PRET

NIVEAU 2



NIVEAU 1



NIVEAU 0



VEHICULE



- FREIN DE SERVICE SERRE
- FREIN DE SECURITE SERRE
- ARRET FREIN DE SECURITE
- ARRET FREIN DE SERVICE
- ARRET ELECTRIQUE

SKIRAIL



SEMER

05 135

CLOS DE LA MADRAGUE

CONSIGNE : 0,75 m/s CONSIGNE +/- VITE : 0,75 m/s

MODE MAINTENANCE: CONDUITE DEPUIS PUPITRE MOTRICE

ARRET EXPLOITATION
PORTES FERMEESARRET EXPLOITATION
PORTES OUVERTES

NIVEAU 2

- FIN DE COURSE
- PRESENCE VEHICULE
- NEZ DE GARE



NIVEAU 1

- FINS DE COURSE
- POINT FIXE



NIVEAU 0

- NEZ DE GARE
- PRESENCE VEHICULE
- FIN DE COURSE

OPERATOR ID

pat

SAFE RUN

CASE ID

john karau

OVERRIDES

Master Timer

0 : 51

Afterburner

ON

C. Burner #1

00 :00

Throat Air

00 :00

Hearth Air

00 :00

Pollution Ctrl

ON

CASE INFO

Size:

Med (101-200)

Container:

Cardboard

Gender:

Male

Case # of Day:

5

DEFAULTS

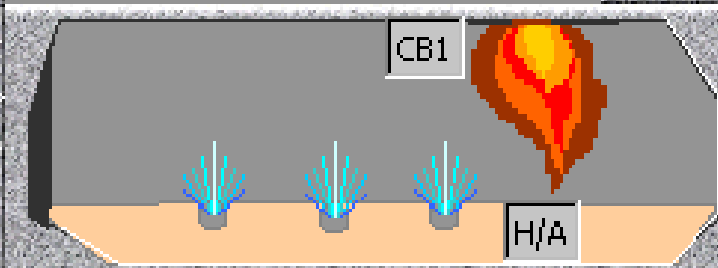
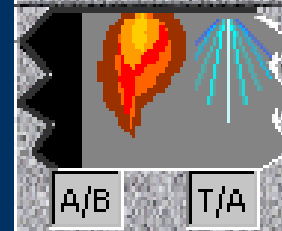
Infant

PRESET 2

PRESET 3

ELAPSED TIME 0 : 59

10 % OXYGEN



1571 Deg

Datalog Enabled

ABORT

CYCLE START

Name Passwort [Login](#)

Miniweb Start Page

last update 00:07.53 05.05.2

▶ Start page

▶ Remote Control

▶ Control Functions

▶ System
Diagnostics

▶ File Browser

Welcome on HMI_Panel

Device Status of HMI_Panel

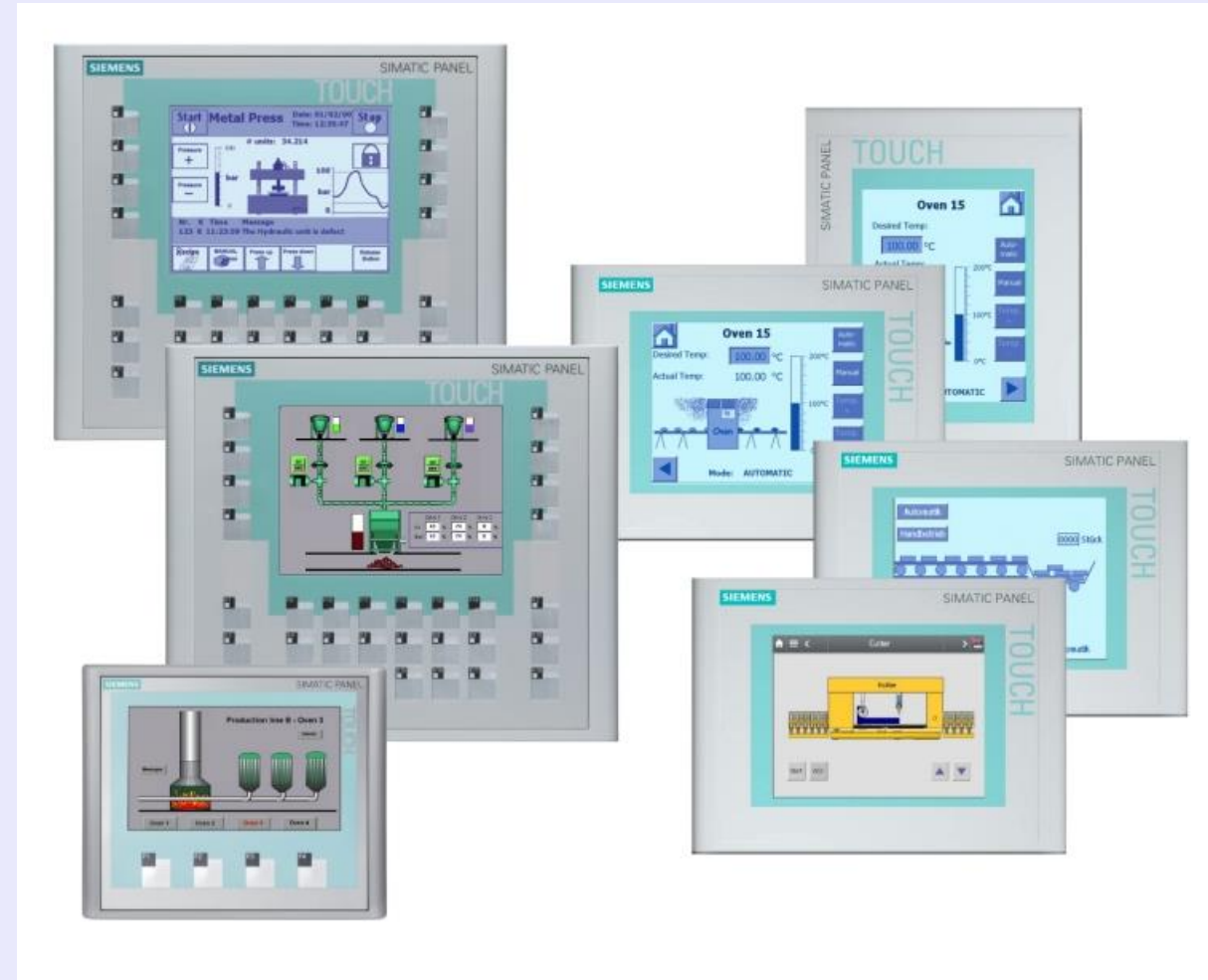
The runtime is running

General Device Information

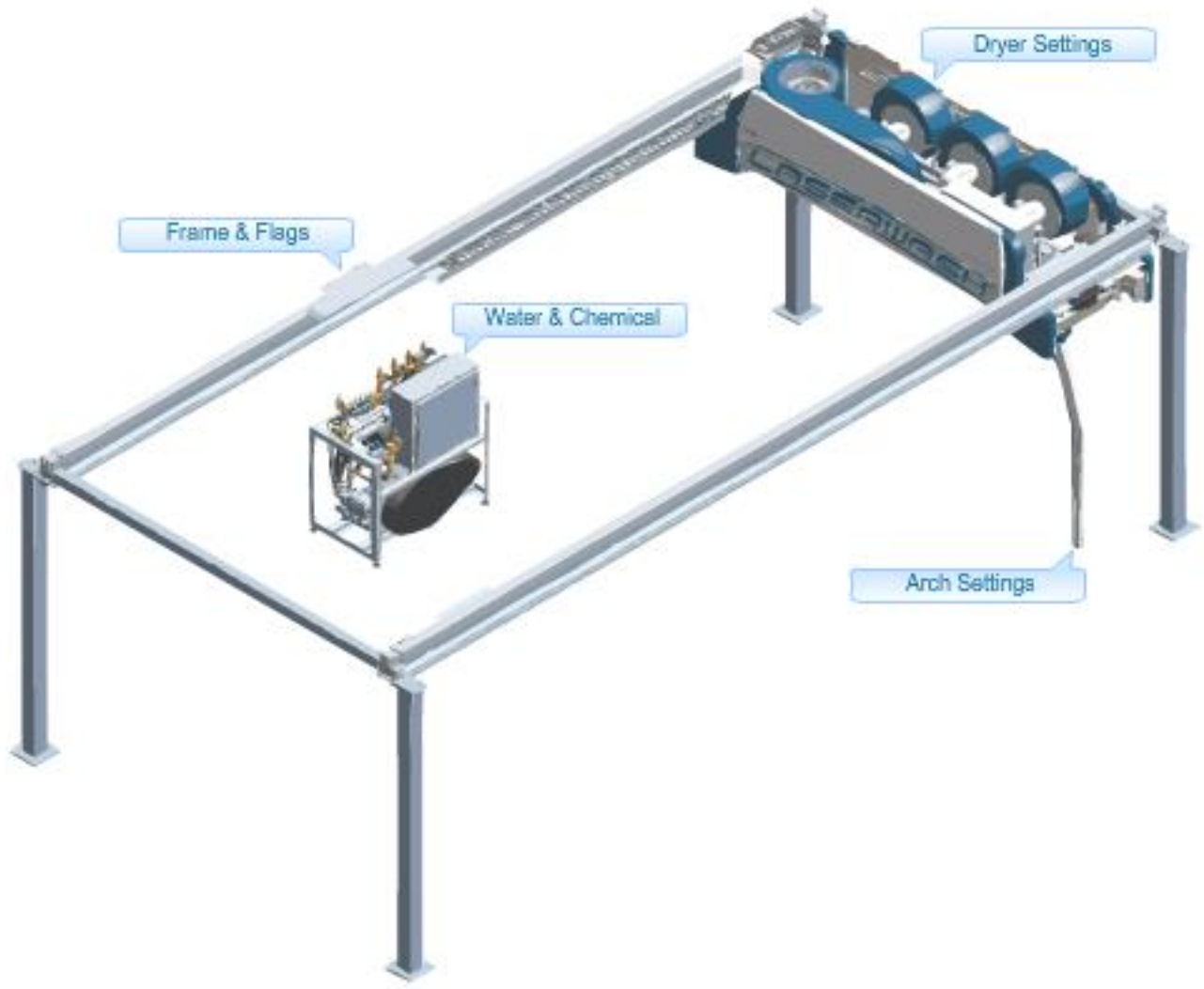
Device Type	TP 177B color PN/DP
Image version	V01.01.02.01_01.09
Bootloader version	1.02
Bootloader release date	16.4.2010
Device Name	HMI_Panel

Hint:

When the devicename contains an underscore (_) some browsers have a bug that makes it impossible to log in. One possible solution may be to use the IP address of the device instead of the name, or to use another browser.



- [Abort/Recovery Options](#)
- [Door Settings](#)
- [Dryer Settings](#)
- [Freeze Protection](#)
- [Installed Options](#)
- [Machine Dimensions](#)
- [Machine Offsets](#)
- [Timers](#)
- [Water and Chemical](#)



Nordex Control Login

Certificate Secure Basic

Username

Password

Login

Select Language

Language

Wind Farm Total Summary

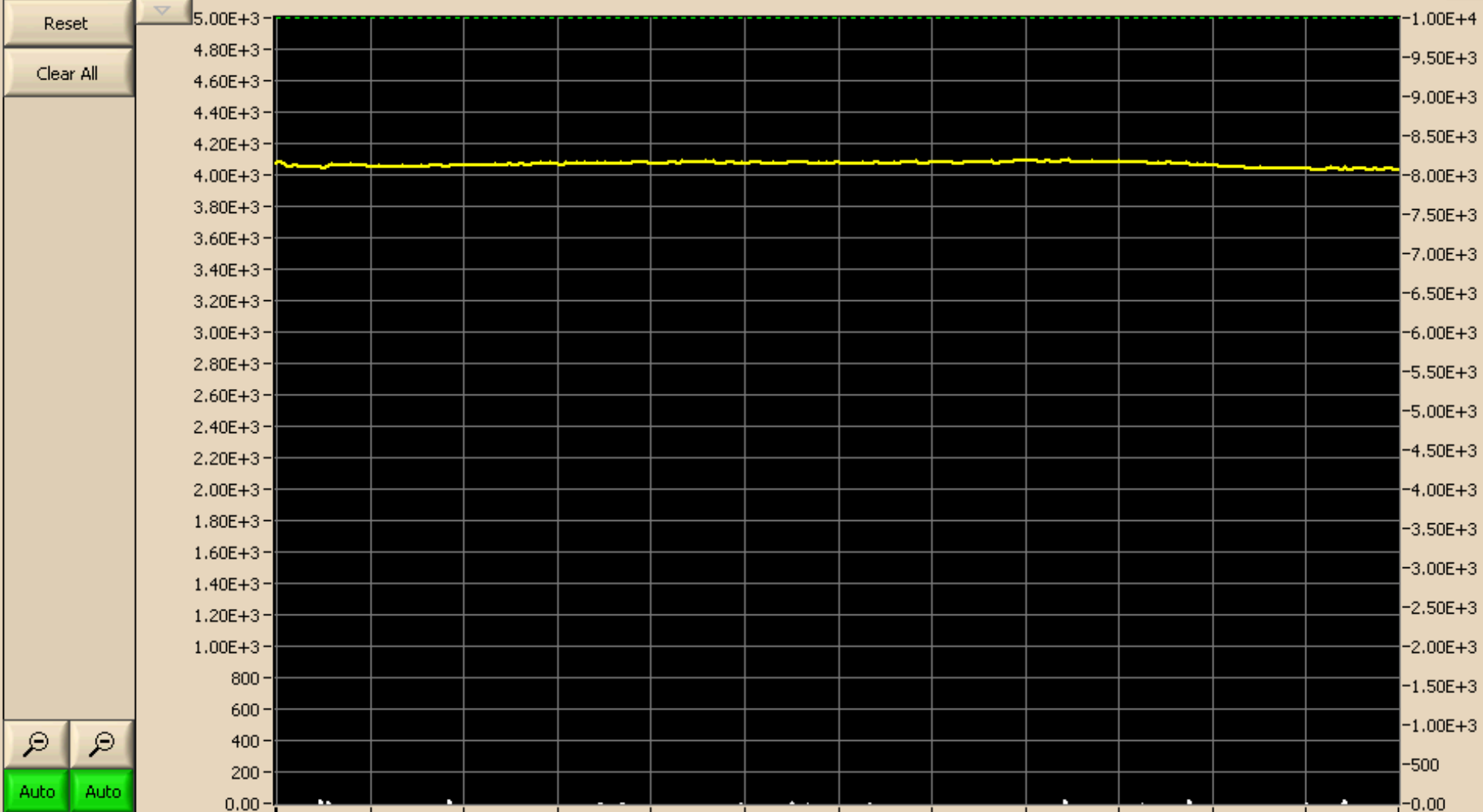
Wind Farm Handover	15.12.2003
Number of Turbines	9 (9)
Total Production	146122.44 MWh
Data Availability	72.37 %
Availability	95.28 %
Capacity Factor	34.67 %
Mean Wind Speed	5.7 m/s



B88 Stack Monitoring

Sat, 4/24/10 16:00:25

Select Axis	Left	Right	Alarms	Replay	Scale	Total viewed	Next
Left	▲				1.0E+4	-9.5E+6 Bq	59
Rgt	▲				2.0E+4	2.0E+5 m3	59

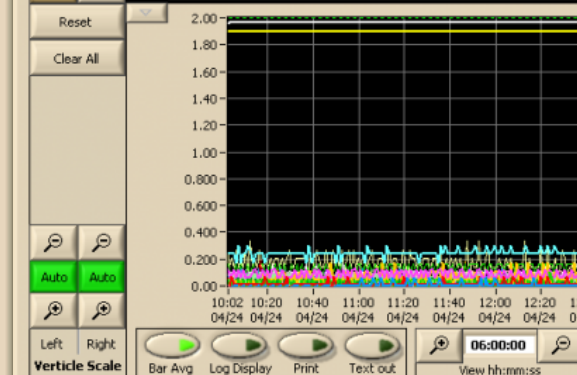


15:57 18:00 20:00 22:00 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 15:57
04/23 04/23 04/23 04/23 04/24 04/24 04/24 04/24 04/24 04/24 04/24 04/24 04/24

View hh:mm:ss

ALS Interlocked Radiation Monitors

Select Axis	Left	Right	Alarms
	Rgt	[Beam current]	499.95 mA
Left	▲	[Beam Energy]	1.89 GeV
Left	▲	BL2.1	0.12 mR/hr
Left	▲	BL3.3_SS205	0.07 mR/hr
Left	▲	BL4.0_M201	0.05 mR/hr
Left	▲	BL4.2_MONO201	0.04 mR/hr
Left	▲	BL5.0_SS001	0.24 mR/hr
Left	▲	BL6.0_XS121	-0.08 mR/hr
Left	▲	BL6.3.1_M1	-0.08 mR/hr
Left	▲	BL7.0_SS8	-0.04 mR/hr
Left	▲	BL7.3_EZ5	0.15 mR/hr
Left	▲	BL8.0_SS8	0.16 mR/hr
Left	▲	BL8.2_XS207	0.03 mR/hr
Left	▲	BL8.2_XS209	-0.05 mR/hr
Left	▲	BL8.3_BPM101	0.17 mR/hr
Left	▲	BL8.3.2_HUTCH	-0.07 mR/hr
Left	▲	BL9.0_SS2	0.17 mR/hr
Left	▲	BL9.3_EZ3	0.21 mR/hr
Left	▲	BL10.0_EZ106	-0.18 mR/hr
Left	▲	BL11.0_EZ101/201	0.12 mR/hr
Left	▲	BL11.3_EZ206	-0.01 mR/hr
Left	▲	BL12.0_SS3	-0.03 mR/hr
Left	▲	BL12.2_EZ201	0.12 mR/hr
Left	▲	BL12.2_MONO201	-0.20 mR/hr
Rgt	▲	[BL4.0.2 in shield]	3.20 mR/hr
Left	▲	[BL4.0.2 Neutron]	0.05 mR/hr
Left	▲	[JH2-1 Gamma Roof]	0.04 mR/hr
Left	▲	[JH2-1 Neutron Roof]	0.00 mR/hr
Left	▲	[JH12-6 Gamma Roof]	-0.08 mR/hr
Left	▲	[JH12-6 Neutron Roof]	0.02 mR/hr
Left	▲	[SR In]	-0.06 mR/hr



View hh:mm:ss

BARRAGE DE FUMEL

Dan Tentler

Puissance T1 1173.98 kW
Ouverture Pale T1 34.84 %
Ouverture Vanne T1 39.6 %
Température Pivot T1 64.7765 °C

Puissance T2 1152.05 kW
Ouverture Pale T2 36.31 %
Ouverture Vanne T2 41.03 %
Température Pivot T2 65.0765 °C

T° palier Turbine T1 46.0 °C

T° palier Turbine T2 41.0 °C

Niveau Amont 64.7716 m
Niveau Grille 64.7972 m
Niveau Aval 57.3256 m

Production journalière Turbine 1 54280.0 kWh

Production journalière Turbine 1 de la vanne 12.0 kWh

Production journalière Turbine 2 54936.0 kWh

Production journalière Turbine 2 de la vanne 432.0 kWh

Ouverture VS1 -0.0449 %

Ouverture VS2 -0.2624 %

Consigne de niveau VS 64.84 m

Consigne de niveau Turbine 64.79 m

TECHNOLOGY





ØMQ



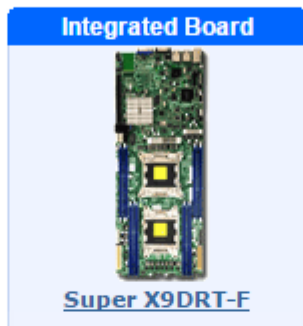
python™



redis

SuperServer 6017TR-TF

[Products](#) ▶ [Systems](#) ▶ [1U](#) ▶ [\[6017TR-TF \]](#)



Available Colors: Black

- ▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Tested HDD](#)
- ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References](#)

Key Features

Two systems (nodes) in a 1U form factor. Each node supports the following:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
3. 1x Low-profile PCI-E 3.0 x16 slot
4. I/O ports: 1 VGA, 1 COM, 2 GbE LAN, 2 USB 2.0 ports, 1 dedicated LAN for system management
5. 2x 3.5" Hot-swap SATA3 HDD Bays
6. 1280W Digital Switching Power Supply **Platinum Level (95%)**

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-6017TR-TF • SuperServer 6017TR-TF (Black)

Motherboard

[Super X9DRT-F](#)

Chassis

Form Factor • 1U Rackmount
Model • [CSE-808BT-1K28B](#)

Dimensions

Width • 17.2" (437mm)
Height • 1.7" (43mm)

NO RAID





Not Built By Aliens Pyramid T-Shirt!

Design was done by artist Felix Laflamme, watch a work in progress video on [YouTube](#)

Want a T-Shirt?

BUY HERE!

The Pylons Project



The Pylons Project was founded by the people behind the Pylons web framework to develop web application framework technology in Python. Rather than focusing on a single web framework, the Pylons Project will develop a collection of related technologies. The first package is the Pyramid web framework.

Who's using Pylons Project software



From the inside

Pyramid - Hacker T-Shirt

Pyramid - Hacker T-Shirt, designed by artist Felix Laflamme, is now available for online purchase via the [Pylons Project Store - Hacker page](#).

Pyramid 1.5 released

Pyramid 1.5 was released on April, 8 2014. Read the [What's New In Pyramid 1.5](#) document for an overview of

Latest discussions

[Re: \[pylons-discuss\] How to store session data server side?](#)

Chris McDonough

Apr 28, 17:07

[Re: \[pylons-discuss\] How to store session data server side?](#)

Michael Merickel

Apr 28, 15:23

[Re: \[pylons-discuss\] How to store session data server side?](#)

Jonathan Vanasco

Apr 28, 15:07

Latest project activities

No activities for now... Come back later.

HOW IT WORKS

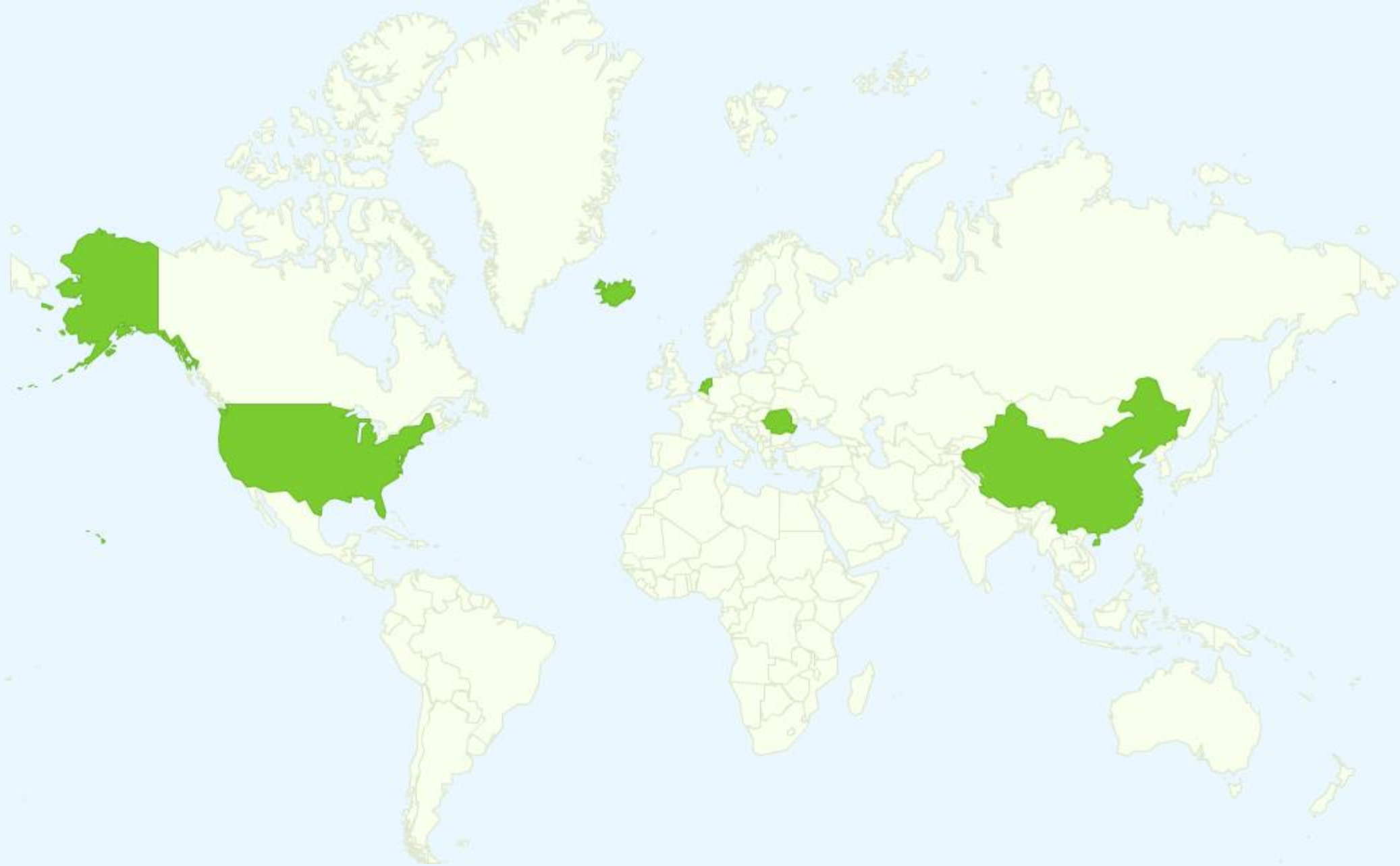
- SCANS 24/7
- RANDOM
- DISTRIBUTED
- NON-INTRUSIVE
- SCANS THE INTERNET EVERY MONTH

C++

STATELESS SCANNING

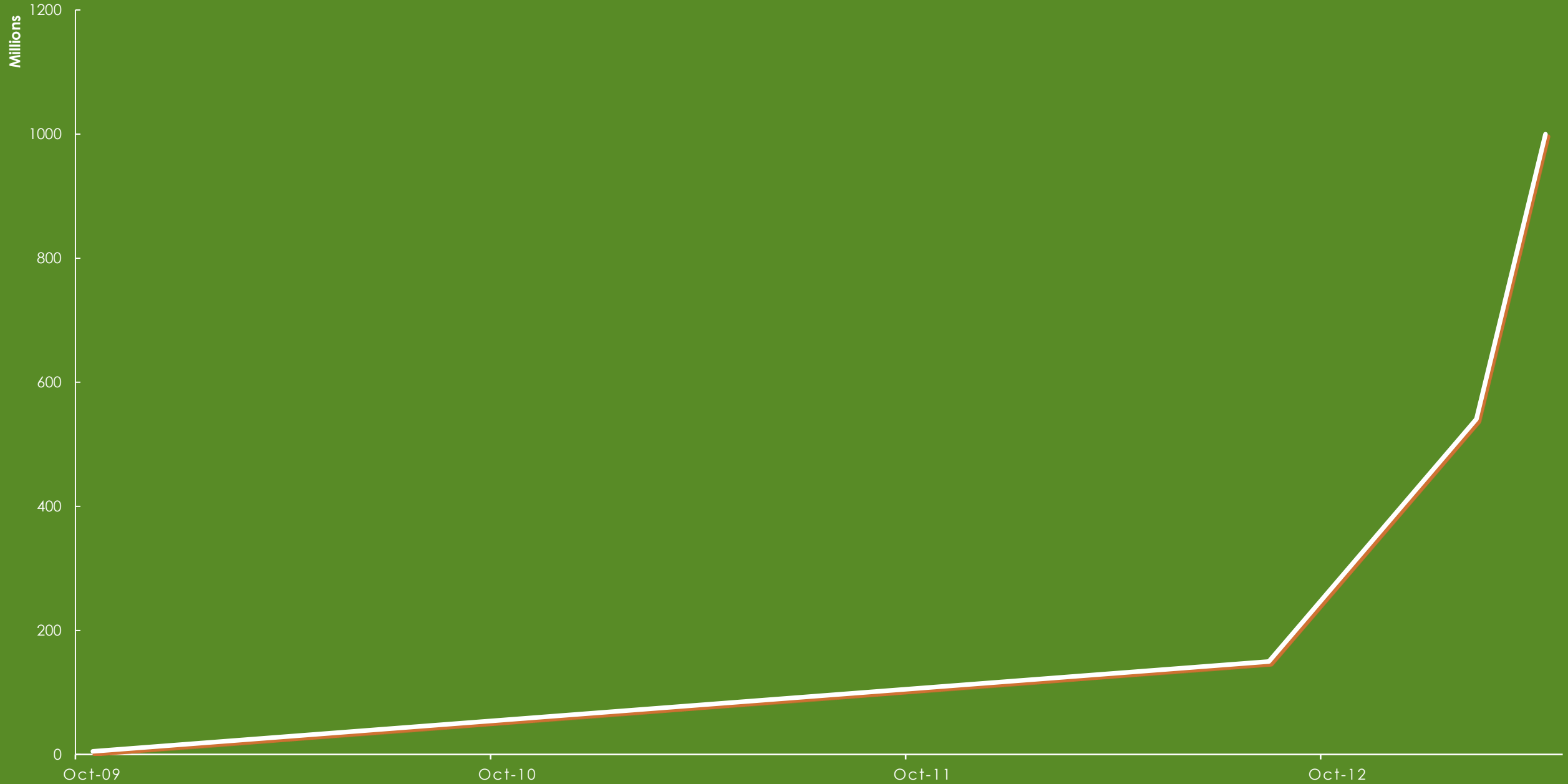


```
1 from base import TcpModule
2 from imaplib import IMAP4, IMAP4_SSL
3 from socket import setdefaulttimeout
4
5 class ImapModule(TcpModule):
6
7     name = 'imap'
8     description = 'Get the welcome message of the IMAP server'
9     port = 143
10
11     def process(self, ip):
12         setdefaulttimeout(self.timeout)
13         con = IMAP4(ip)
14         return con.welcome
15
16
17 class ImapSslModule(TcpModule):
18
19     name = 'imap-ssl'
20     description = 'Get the welcome message of the secure IMAP server'
21     port = 993
22
23     def process(self, ip):
24         setdefaulttimeout(self.timeout)
25         con = IMAP4_SSL(ip)
```

ABUSE EMAILS

DATABASE SIZE

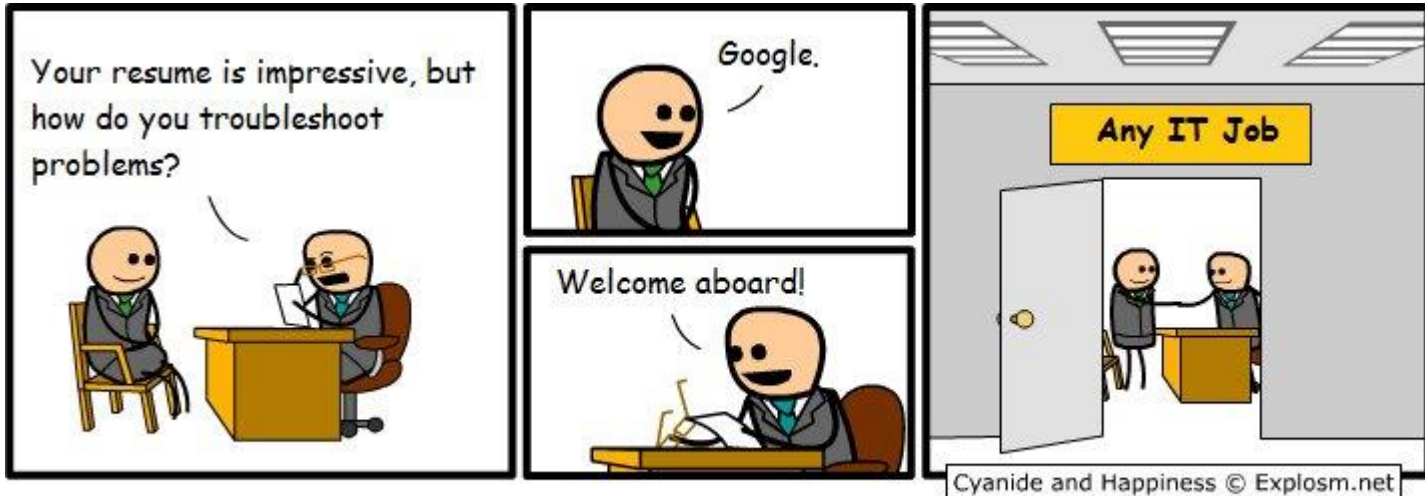


SPEED \propto ABUSE

10-15 ABUSE EMAILS/ DAY

AUTOMATED SYSTEMS

- 99% OF RESPONSES GET IGNORED
- NEVER GO AWAY
- NUISANCE TO HOSTING PROVIDER
- RARELY MAINTAINED



“DO NOT CONNECT TO MY SERVER”

15 MINS LATER...

Richard Pike

1005 Dale Street • Malvin, MS 83100
712.421.8511 • richard@aol.com

Education

University of Southern Mississippi– Hattiesburg, December 2007

- Bachelor of Science in Biological Sciences; Chemistry Minor
- Alpha Epsilon Delta Honor Society – pre-med honor society based on GPA
- Omicron Delta Kappa Honor Society – nominated by faculty for outstanding campus leadership
- Order of Omega Honor Society – awarded to 100 students out of 4000 for academics and leadership
- Gamma Sigma Alpha Honor Society – based on high scholastic achievement
- Dean's List 2005 – Present

Experience

Ophthalmology Intern, Dr. Candice Collins, MD, Slidell, LA, May 2006 – Present

- Transcribed 20 patient charts discussing medication and vision prescriptions
- Observed 100 appointments for issues including glaucoma, macular degeneration, and detached retinas
- Helped fit new contact lens patients

Biology Lab Teaching Assistant, University of Southern Mississippi, August 2005 – June 2006

- Independently taught two biology labs per semester with 20 students in each
- Created lesson plans, and modified and presented curriculum for weekly classes
- Maintained lab with spiders, guinea pigs, beetles, and gecko
- Held weekly office hours and tutored dozens of students

President, Alpha Tau Omega Fraternity, November 2005 – November 2006

- Improved house academic standing from tenth to first on campus by instituting new scholarship program
- Increased philanthropic giving 66% to \$50,000 annually by overhauling two campus wide fundraisers
- Ranked first out of 140 ATO national chapters nationwide in total philanthropic hours donated
- One of 28 chapters in the country to win ATO True Merit Award for overall excellence across scholarship, philanthropy, communications, and operations

Founding Member, Future Optometrists of America, USM, Spring 2006 – Present

- Helped create USM's first chapter of national student organization
- Petitioned and secured official club status from student government
- Wrote constitution, by-laws, and mission statement and established executive structure

Vice President of Philanthropy, Inter-Fraternity Council, Fall 2004 – Spring 2005

- Organized pan-Greek Habitat-for-Humanity event attended by 250 students
- Tracked monthly philanthropic hours and dollars raised for entire fraternity population

Activities/Interests

- USM Orientation Director, 2004 – 2006
- Student Government Association, Freshman Associate, 2003 – 2004
- Catholic Student Association, Member, 2006 – Present
- Alpha Tau Omega, Member, 2003 – Present
- Intramural football, softball, basketball, soccer, 2003 - Present
- Interests include: music, sports, travel, volunteering, and James Michener novels

““

FILE DOES NOT EXIST:

/USR/LOCAL/APACHE/HTDOCS/**FAVICON.ICO**

PERFECT EXAMPLE OF WHY THEY SHOULD BE BLACK

LISTED.... COMMITTING EXPLOITS, DUCKING ABUSE

COMPLAINTS, ROLLING IPS TO GET AROUND THEM, ”

TRYING TO **ILLEGALLY ACCESS BELOW WEBROOT**,

REFUSING DEMANDS TO STAY GONE,

“

PLEASE EXCLUDE 0.0.0.0/0

”

“

WELL, CLEARLY YOU ARE WRONG, YOU ARE INTERFERING, YOU ARE HACKING BY DEFINITION AND YOU WILL BE BLOCKED TOTALLY IF THESE ACTIVITIES DO NOT END WITHIN 24 HOURS. THEN **WE WILL FORWARDING THIS INFORMATION TO THE FBI** AS THERE IS NO GOOD REASON FOR YOUR MINDLESS PROBES.

”

**"WHY ARE YOU SENDING A HTTP
REQUEST TO MY WEB SERVER?"**

**RUNS REDIS, MONGODB AND MYSQL WITHOUT
CREDS**

Unreal Tournament 2004 lends incontrovertible proof
to John Gabriel's Greater Internet Fuckwad Theory.

Normal Person



Anonymity



Audience



Total Fuckwad



+

+

=



KEEP
CALM
AND
DON'T FEED
THE TROLL

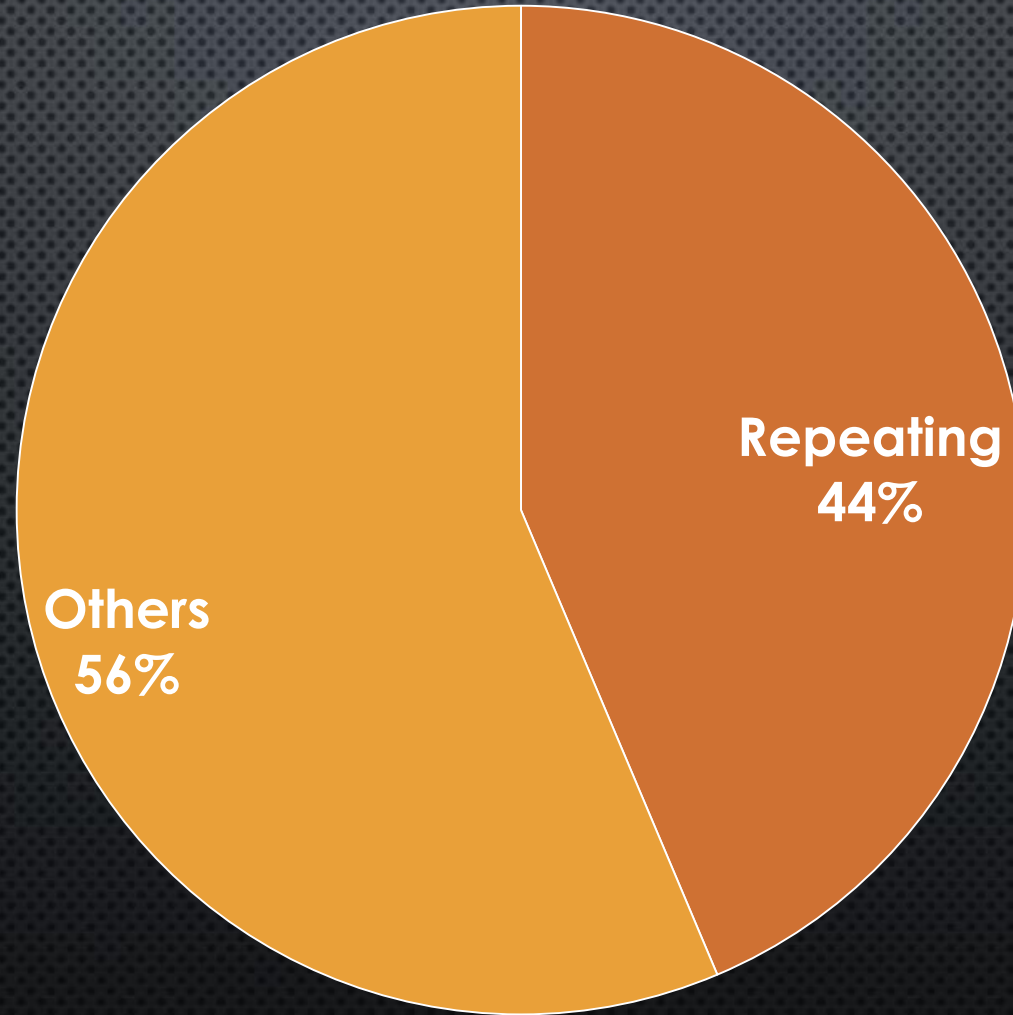
IN THE EARLY DAYS...

1 HOSTING PROVIDER / MONTH

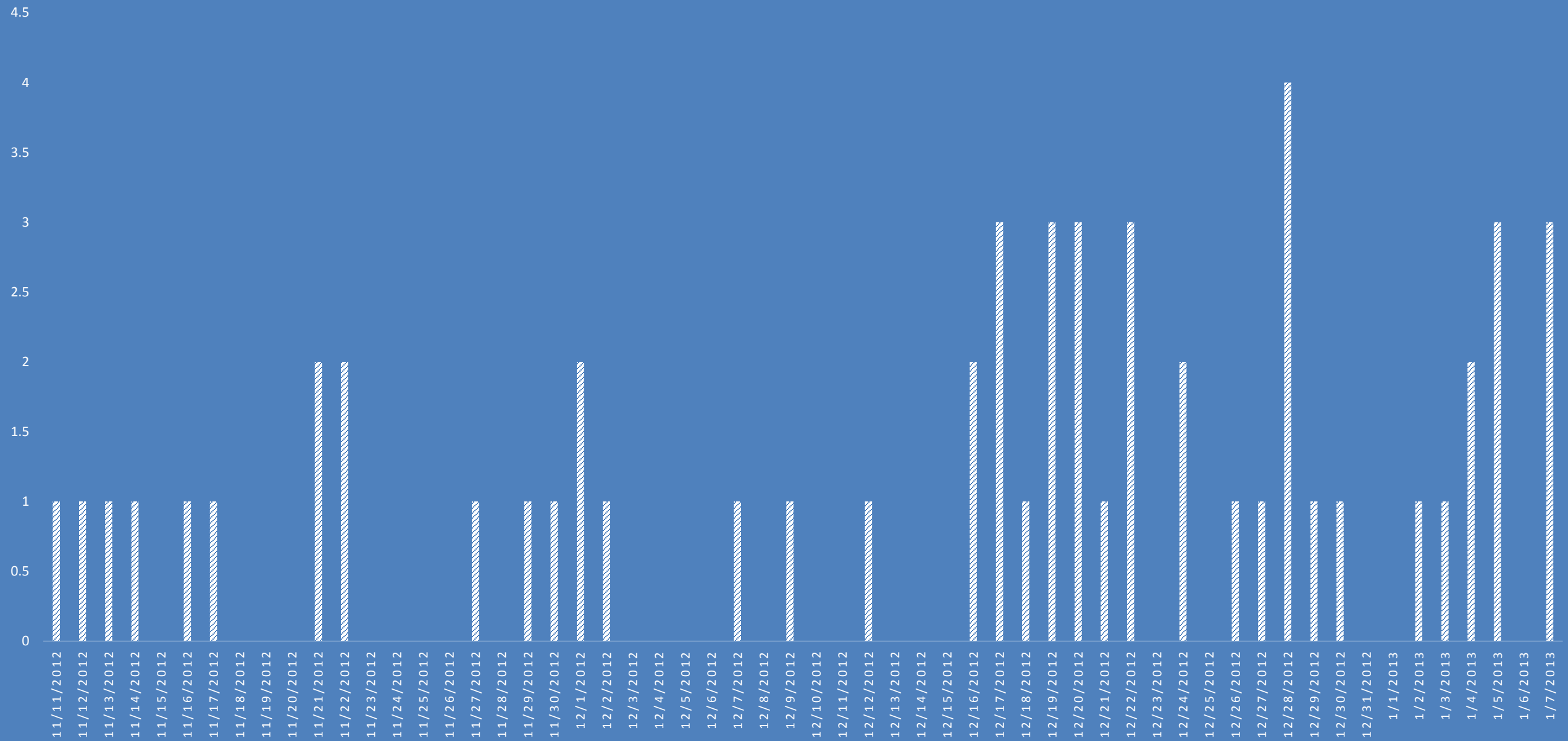
MANY HOSTING PROVIDERS LATER...

ABUSE TRANSPARENCY REPORT

Ticket Type



TICKET HISTOGRAM



EMPIRICAL ANALYSIS TO
DEMONSTRATE >50% REDUCTION IN
ABUSE TICKETS

\$\$\$

PRESS COVERAGE

“

THE SCARIEST SEARCH ENGINE ON THE
INTERNET

”

CNNMoney

“

THE WEB'S SCARIEST SEARCH ENGINE

”



“

THE TERRIFYING SEARCH ENGINE THAT FINDS
INTERNET-CONNECTED DEVICES

”

The Forbes logo is displayed in a white rectangular box. The word "Forbes" is written in a blue, serif font.

TOOL != DISCOVERY







**We Demand
To Be Taken
Seriously**

Total Results: 36,716,191

Top Services

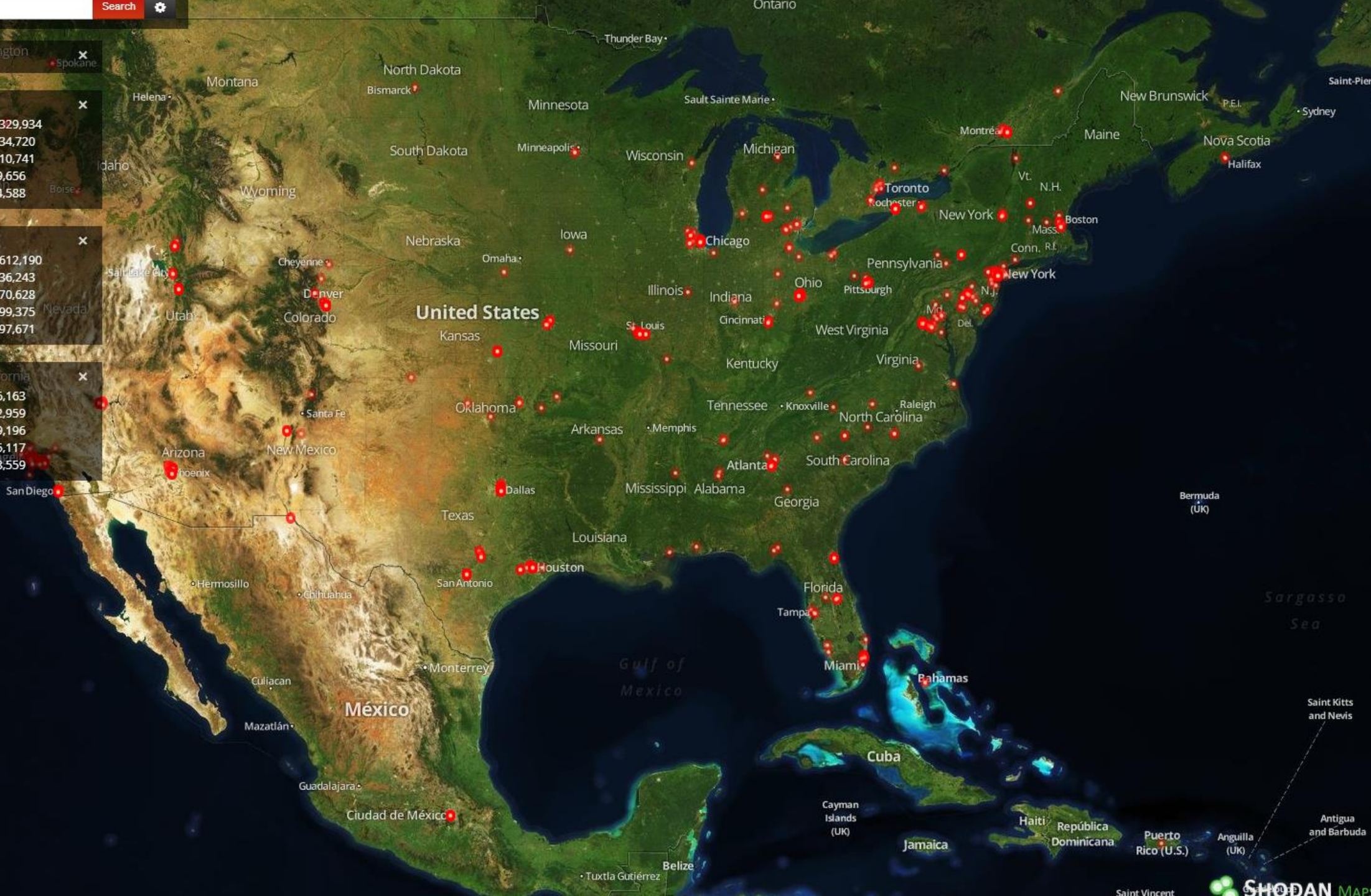
HTTP	25,329,934
HTTPS	8,934,720
HTTP (8080)	1,610,741
HTTP (81)	399,656
HTTPS (8443)	264,588

Top Countries

US	13,612,190
DE	3,236,243
JP	2,070,628
CN	1,899,375
GB	1,297,671

Top Organizations

Amazon.com	846,163
Ecommerce Corporat...	792,959
Verio Web Hosting	769,196
Unified Layer	625,117
GoDaddy.com, LLC	573,559

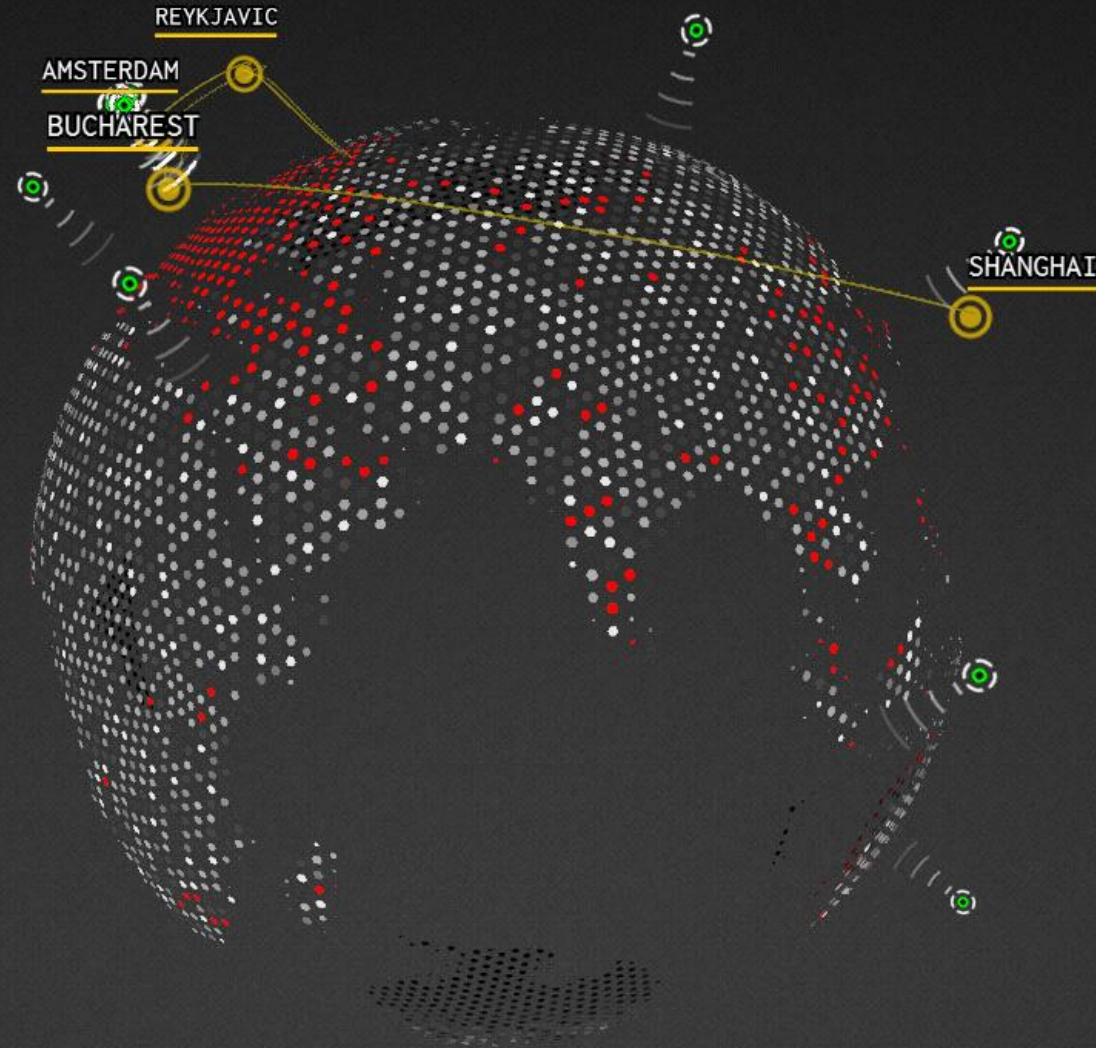


Protocols

BACnet: 10,530
DNP3: 588
EtherNet/IP: 3,943
Modbus: 13,949
Niagara Fox: 23,294
Niagara Fox with SSL: 159
Siemens S7: 2,701

About

The Shodan search engine has started to crawl the Internet for protocols that provide raw, direct access to industrial control systems (ICS). This visualization shows the location of these industrial control systems on the Internet as well as other related data.



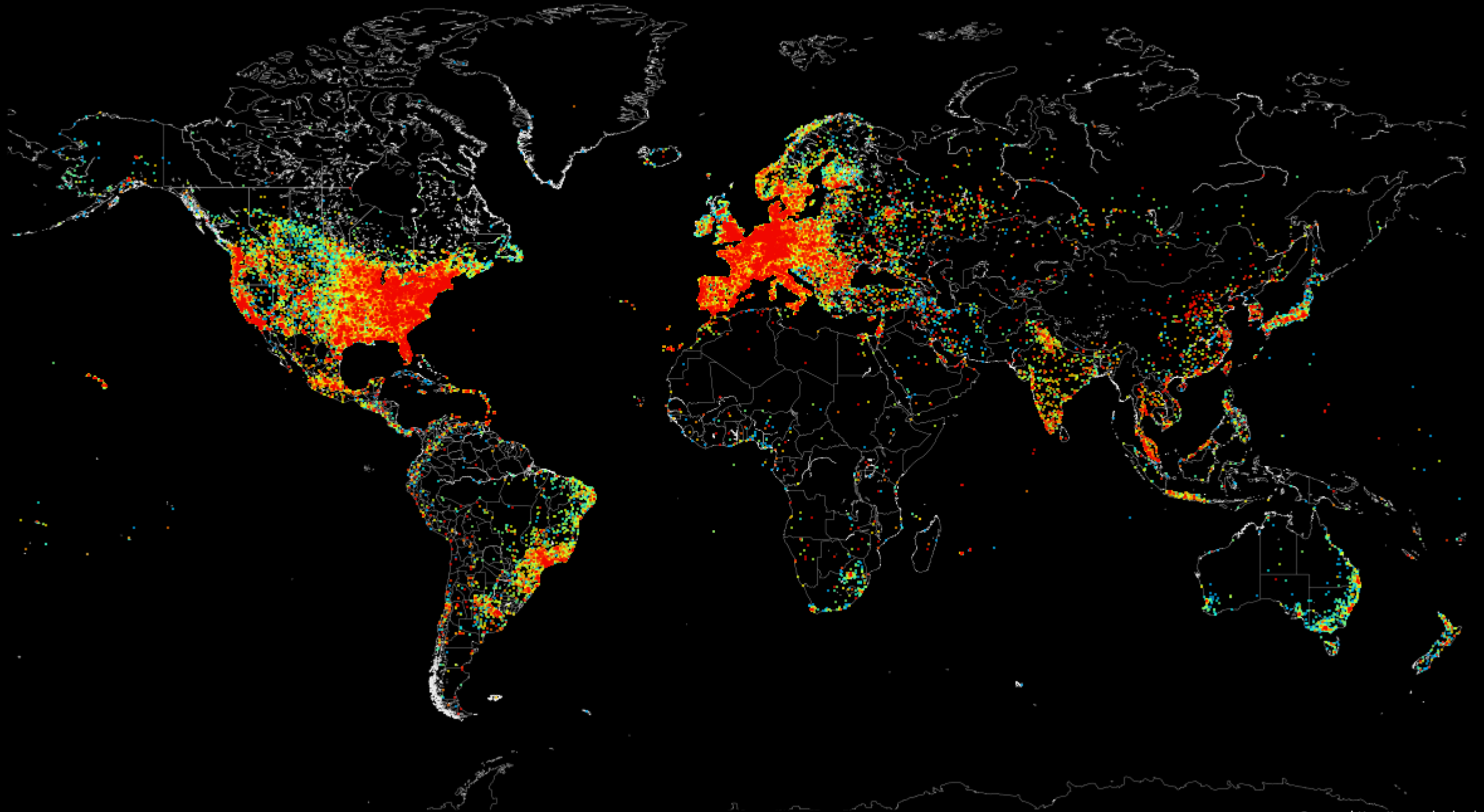
Legend

- ICS device
- Shodan crawler
- Honeypot

Contact

For all inquiries relating to Shodan or the ICS Radar please contact:

support@shodan.io
Twitter: [@shodanhq](https://twitter.com/shodanhq)

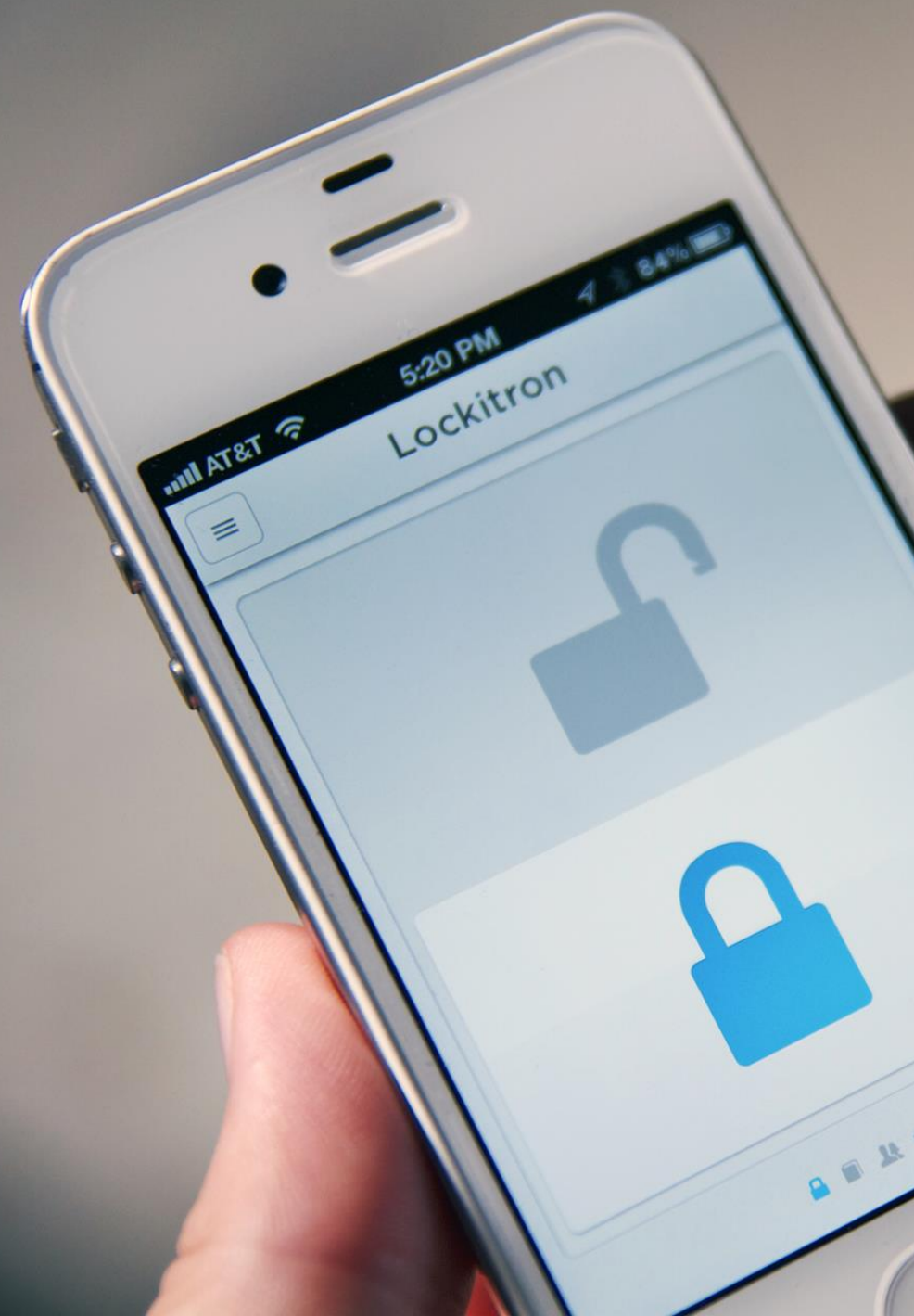


INTERNET OF THINGS



Hi!

Lockitron



Egg Minder

THE SMART EGG TRAY



iOS 7

iBeacons







9520
DAYS LIVED

43
DAYS RECORDED

James



TODAY
NOVEMBER 21ST



HEALTH

CREATIVITY



ROUTINE

PLEASURE



TODAY
NOVEMBER 21ST



WEIGHT

158.5lb

HEALTH STATUS

100%

GLASSES OF WATER

7

STRESS LEVEL

20%

STEPS

7854

CALORIES

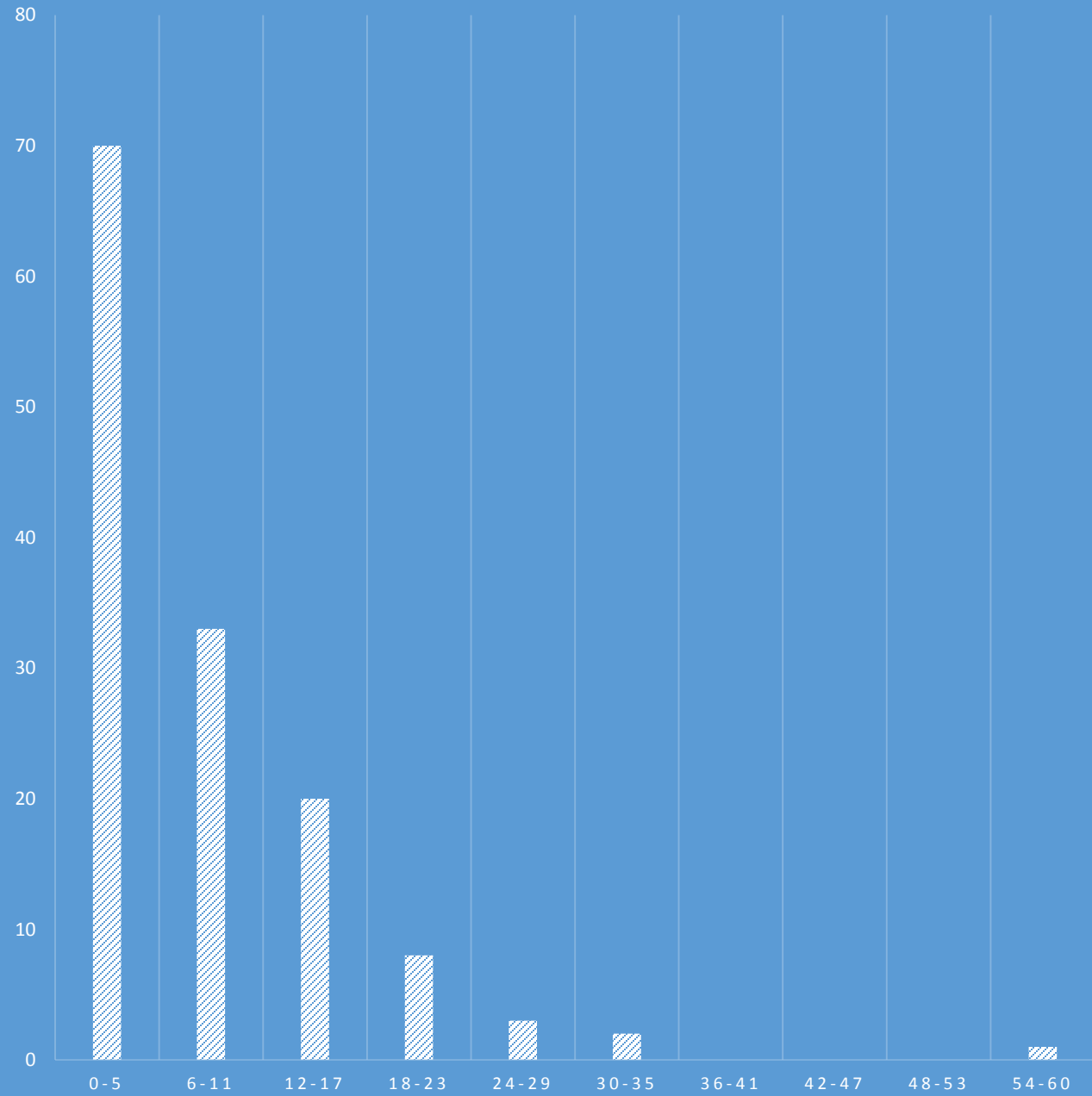
562cal



Universities Needing Toner

#1	Minnesota	89
#2	Hawaii	75
#3	Austin	60
#4	San Francisco	60
#5	Toronto	56
#6	Santa Cruz	55
#7	South Florida	55
#8	Boston	55
#9	Washington	54
#10	Pennsylvania	48

NUMBER OF TURBINES



FUTURE?

NEW SERVICES

- SERIALNUMBERD
- RIAK
- HBASE
- ZOOKEEPER
- TENDA BACKDOOR



+



redis :6379> monitor

OK

```
1399153823.250101 [0 10.134.9.33:56020] "RPOP" "conf:provider"
1399153823.250189 [0 10.134.9.33:56046] "RPOP" "conf:provider"
1399153823.250216 [0 10.134.9.33:56024] "RPOP" "conf:provider"
1399153823.250237 [0 10.134.9.33:56021] "RPOP" "conf:provider"
1399153823.250277 [0 10.134.9.33:56023] "RPOP" "conf:provider"
1399153823.250298 [0 10.134.9.33:55998] "RPOP" "FUL:"
1399153823.250363 [0 10.134.9.33:56019] "RPOP" "conf:provider"
1399153823.250383 [0 10.134.9.33:56022] "RPOP" "conf:provider"
1399153823.250714 [0 10.134.9.33:56037] "RPOP" "conf:tagimage"
1399153823.250788 [0 10.134.9.33:56034] "RPOP" "conf:tagimage"
1399153823.250940 [0 10.134.9.33:55998] "RPOP" "conf:CONTENTIMPORT:"
1399153823.250983 [0 10.134.9.33:56032] "RPOP" "conf:tagimage"
1399153823.251054 [0 10.134.9.33:56047] "RPOP" "conf:tagimage"
1399153823.251156 [0 10.134.9.33:54214] "RPOP" "conf:banimage"
1399153823.251202 [0 10.134.9.33:56039] "RPOP" "conf:tagimage"
1399153823.251223 [0 10.134.9.33:56038] "RPOP" "conf:tagimage"
1399153823.251240 [0 10.134.9.33:54209] "RPOP" "conf:banimage"
1399153823.251289 [0 10.134.9.33:56033] "RPOP" "conf:tagimage"
1399153823.251451 [0 10.134.9.33:55998] "HGET" "conf:ST:" "crawler.status.numitems-10.134.9.33-7553@Prism-QA6-2"
1399153823.251544 [0 10.134.9.33:54212] "RPOP" "conf:banimage"
1399153823.251612 [0 10.134.9.33:54213] "RPOP" "conf:banimage"
1399153823.251684 [0 10.134.9.33:54215] "RPOP" "conf:banimage"
1399153823.251737 [0 10.134.9.33:54219] "RPOP" "conf:disicon"
1399153823.251763 [0 10.134.9.33:54211] "RPOP" "conf:banimage"
1399153823.251781 [0 10.134.9.33:54222] "RPOP" "conf:disicon"
1399153823.251825 [0 10.134.9.33:54216] "RPOP" "conf:banimage"
1399153823.251934 [0 10.134.9.33:55998] "HGET" "conf:ST:" "crawler.status.bytesmedia-10.134.9.33-7553@Prism-QA6-2"
1399153823.252031 [0 10.134.9.33:54218] "RPOP" "conf:disicon"
1399153823.252076 [0 10.134.9.33:54221] "RPOP" "conf:disicon"
1399153823.252155 [0 10.134.9.33:54229] "RPOP" "conf:disimage"
1399153823.252206 [0 10.134.9.33:54235] "RPOP" "conf:disimage"
1399153823.252227 [0 10.134.9.33:54220] "RPOP" "conf:disicon"
```




[nodes](#)

[cluster](#)

Cluster: elasticsearch

Number of nodes: 2

Status: **yellow**

Experimental cluster Pack diagram:



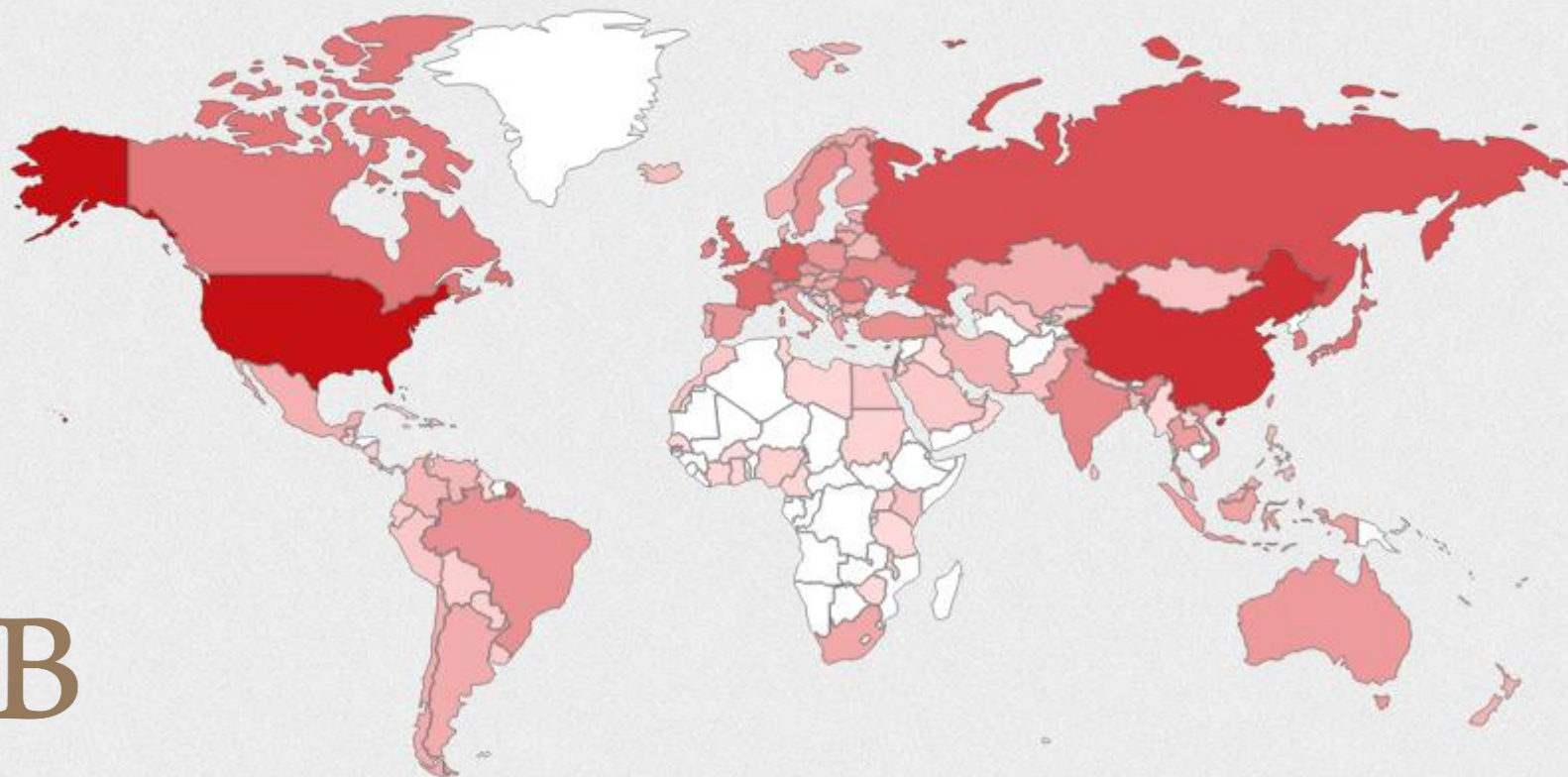
SUMMARY INFORMATION

Total Hosts
80,842

LOW HOST COUNT

MEDIUM HOST COUNT

HIGH HOST COUNT



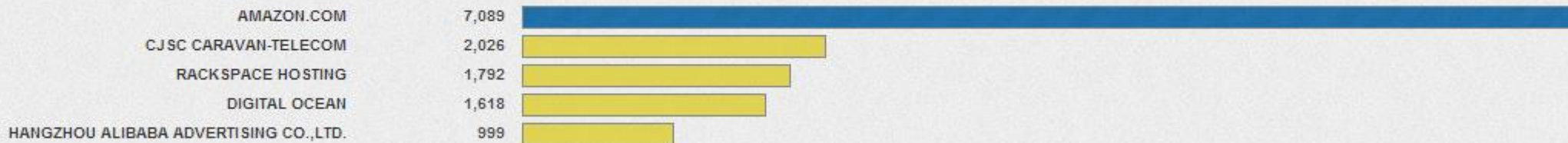
mongoDB

TOP ORGANIZATIONS

LOW OCCURRENCE

MEDIUM OCCURRENCE

HIGH OCCURRENCE



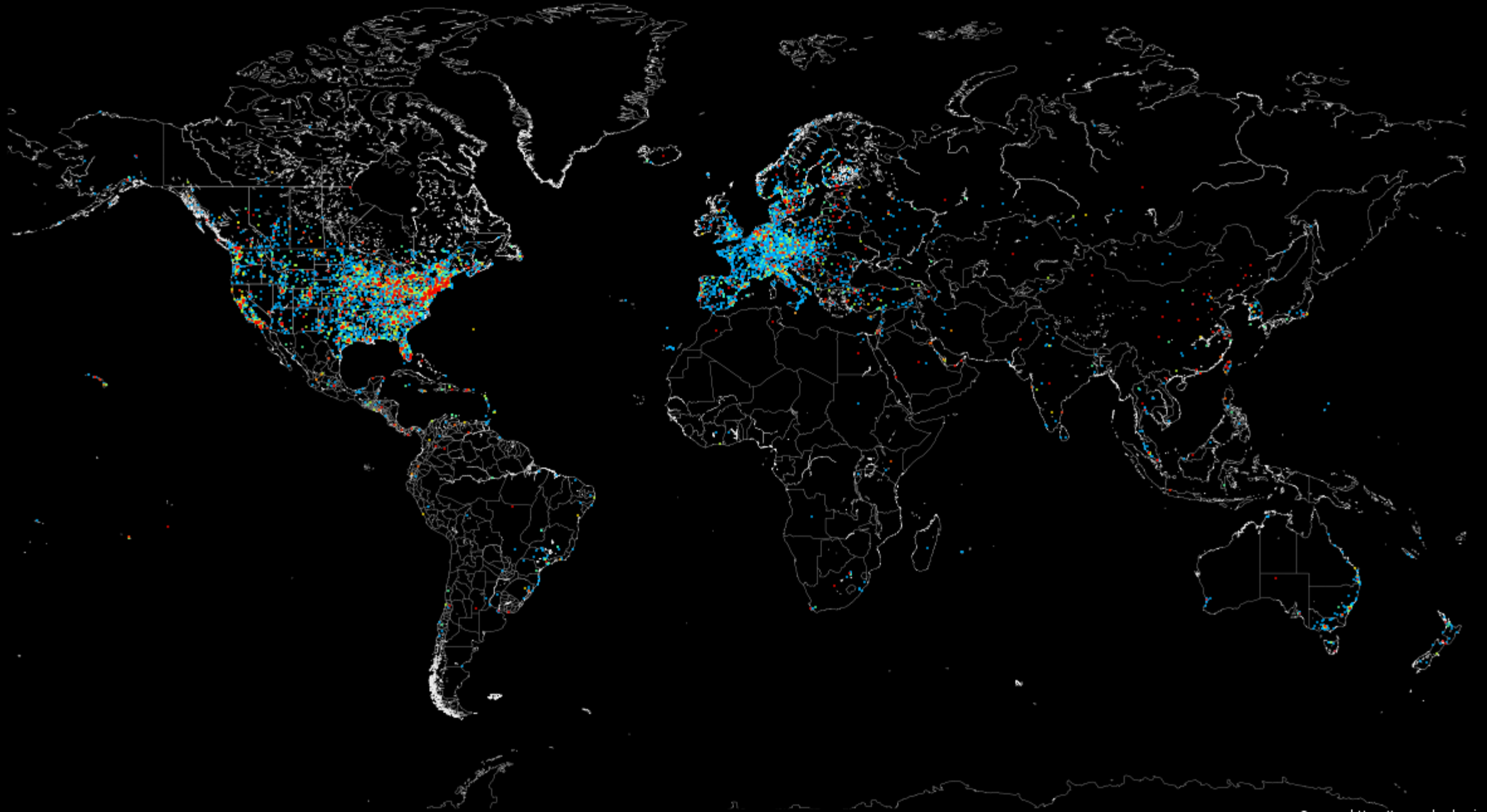
COLLABORATE!

Quantitatively Assessing and Visualising Industrial System Attack Surfaces

Éireann P. Leverett



University of Cambridge



THANK YOU