sense
maker
samst
erdam

IoT-SensemakersAMS is a volunteer based community dedicated to:

Connecting people and sharing knowledge, ideas & hands-on experience

Powered by:

MARINETERREIN Amsterdam

SODAQ

speaksee

CODAM

Toolz.nl

SURF SARA

oba

NESSCIS SOFTWARE INTERNET

We meet up....

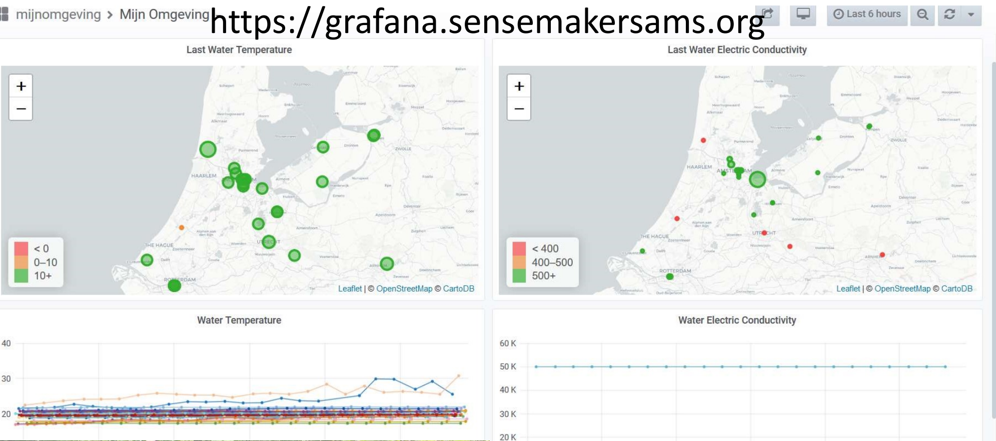
- 1th Wednesday of the month: DIY LAB/projects
  DIY hands-on in the Makerspace at OBA (IoT, 3Dprinting, Lasercutting)

- 3th Wednesday: Sensemakers Meetup
  Sharing knowledge, ideas & connecting people at Codam College

- Random: Sensemakers Specials
  Handson workshops, excursions or …

- Conferences
  Sharing free & discounted tickets

https://grafana.sensemakersams.org


mijnomgeving › Mijn Omgeving
Last 6 hours
Last Water Temperature
< 0
0–10
10+
Last Water Electric Conductivity
< 400
400–500
500+
Leaflet | © OpenStreetMap © CartoDB
Water Temperature
40
30
20
Water Electric Conductivity
60 K
50 K
40 K
30 K
20 K
10 K
0
11:00
12:00
13:00
14:00
15:00
16:00
EC 231 EC 212 EC 217 EC 241 EC 205 EC 208 EC 201 EC 218 EC 224 EC 210
EC 243 EC 204 EC 239 EC 232 EC 228 EC 222 EC 207 EC 206 EC 209 EC 237
EC 233 EC 213 EC 236 EC 235 EC 202 EC 216 EC Prototype 002 EC 211
EC Prototype 001 EC 230 EC 219 EC 240

SENSING CLUES

AmsterdamSounds

waag
technology & society

we code for less noise in the city

Amsterdam Sounds

Duration: 1 mei 2018 - 1 mei 2019

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Programm

- 19.10 IoT in Cyberwarfare – Chris Kubecka

- 19.45 SPIN – Jelte Jansen
- 20.15 Open mic (Make Health,…)
- 20.30 Drinks & networking

Wifi:Codamguest
CodamCodingCollege2019

Twitter: @SensemakersA
#Sensemakers

IOT in Cyberwarfare

16 October 2019

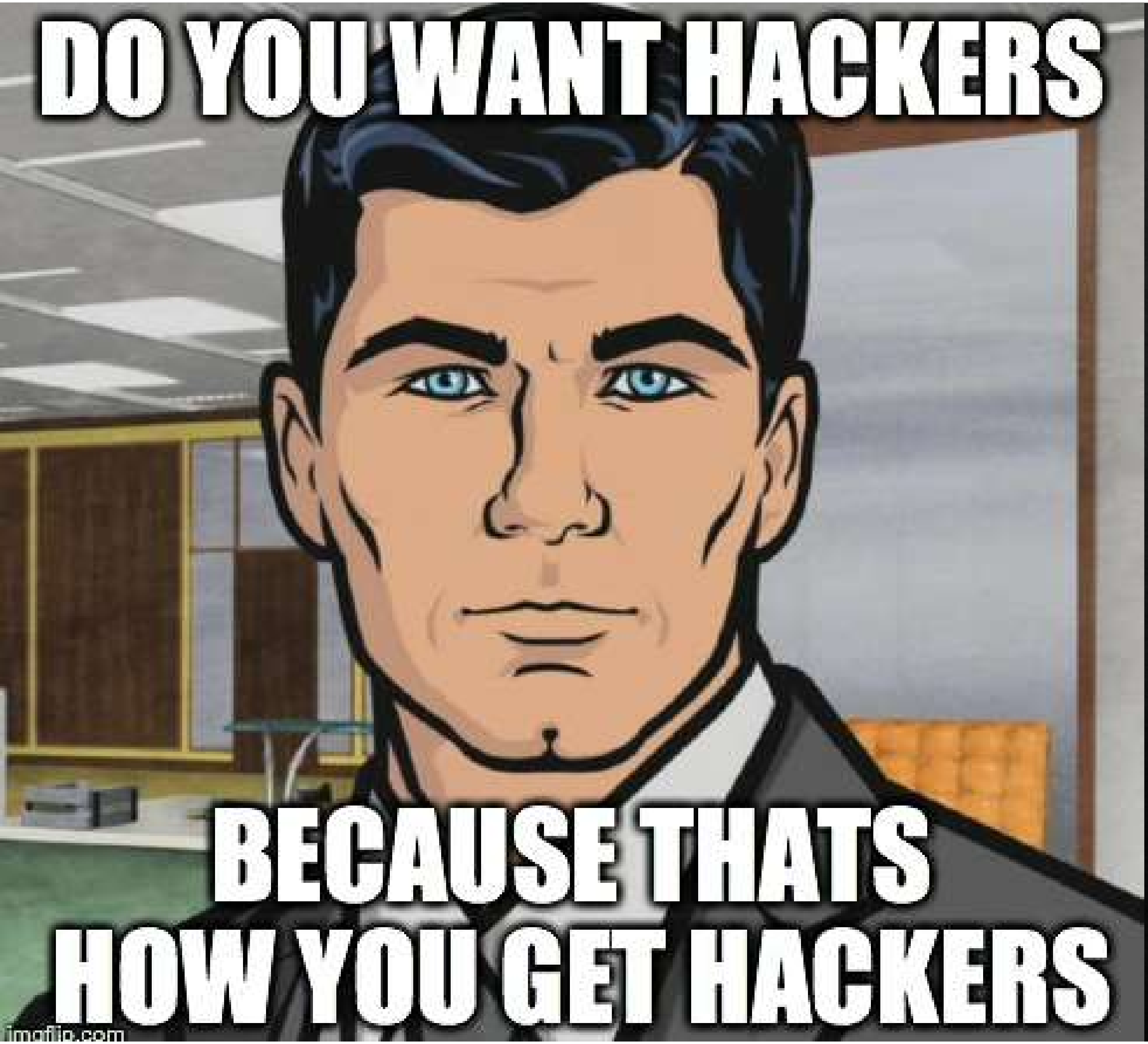
Chris Kubecka, CEO
HypaSec

Biography

- Cyber warfare incident management and advisement EU/ UK governments
- Critical infrastructure security expert: Oil & Gas, Water, Electric & Nuclear
- Author, presenter at Black Hat, Security BSides, ICS/SCADA Nuclear Cyber Security
- Previous headed Aramco Overseas Security Operations, Information Protection & Intelligence
- Previous U.S Air Force Space Command

Chris Kubecka, Cybersecurity Expert. PHOTO: Cybercrime Magazine.

How A 10-Year-Old War Dialer Became A Top Cybersecurity Expert

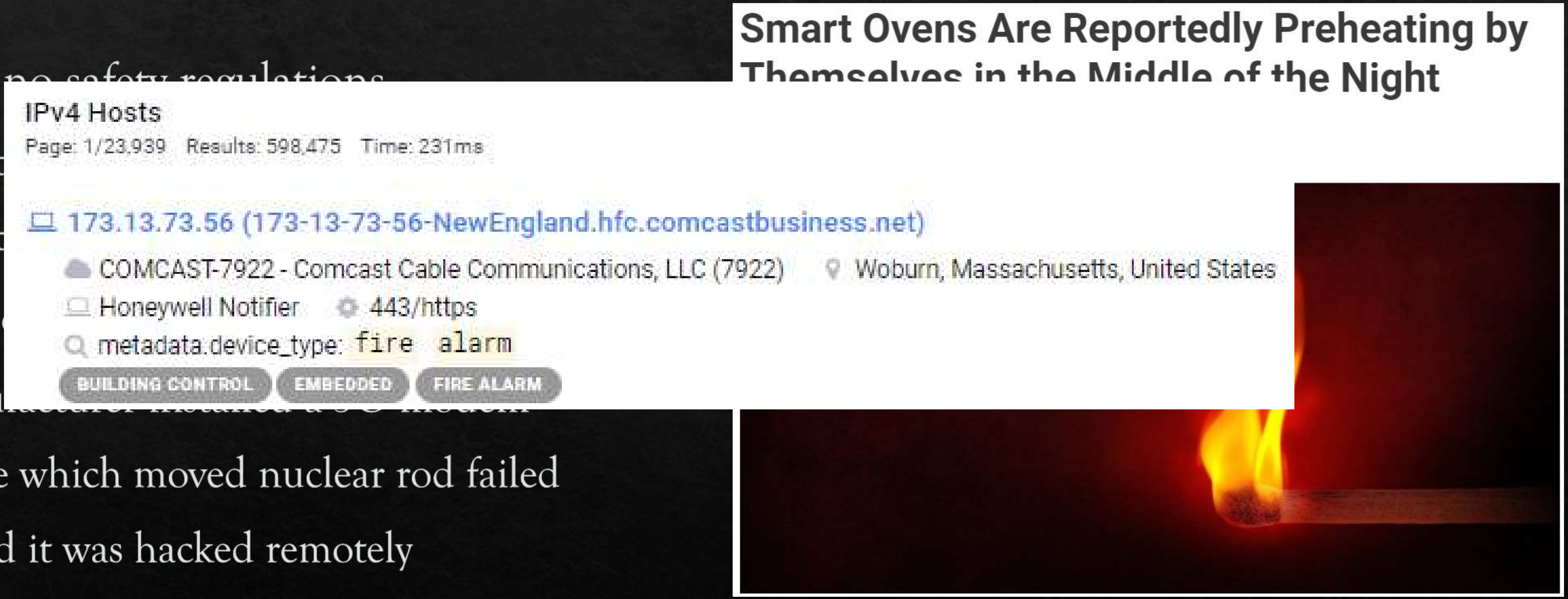


Security Challenges

- Large number of access points
- Profit over vulnerabilities
- No required security testing
- Most equipment privately owned
- Weak configuration
- Security an afterthought

Safety Challenges of IOT

- Little to no safety regulations
  - Smart
  - Smart
- Nuclear
  - Manufacturer installed a 3G modem
  - Crane which moved nuclear rod failed
  - Feared it was hacked remotely



Smart Ovens Are Reportedly Preheating by Themselves in the Middle of the Night

IPv4 Hosts

Page: 1/23,939 Results: 598,475 Time: 231ms

173.13.73.56 (173-13-73-56-NewEngland.hfc.comcastbusiness.net)

COMCAST-7922 - Comcast Cable Communications, LLC (7922) Woburn, Massachusetts, United States

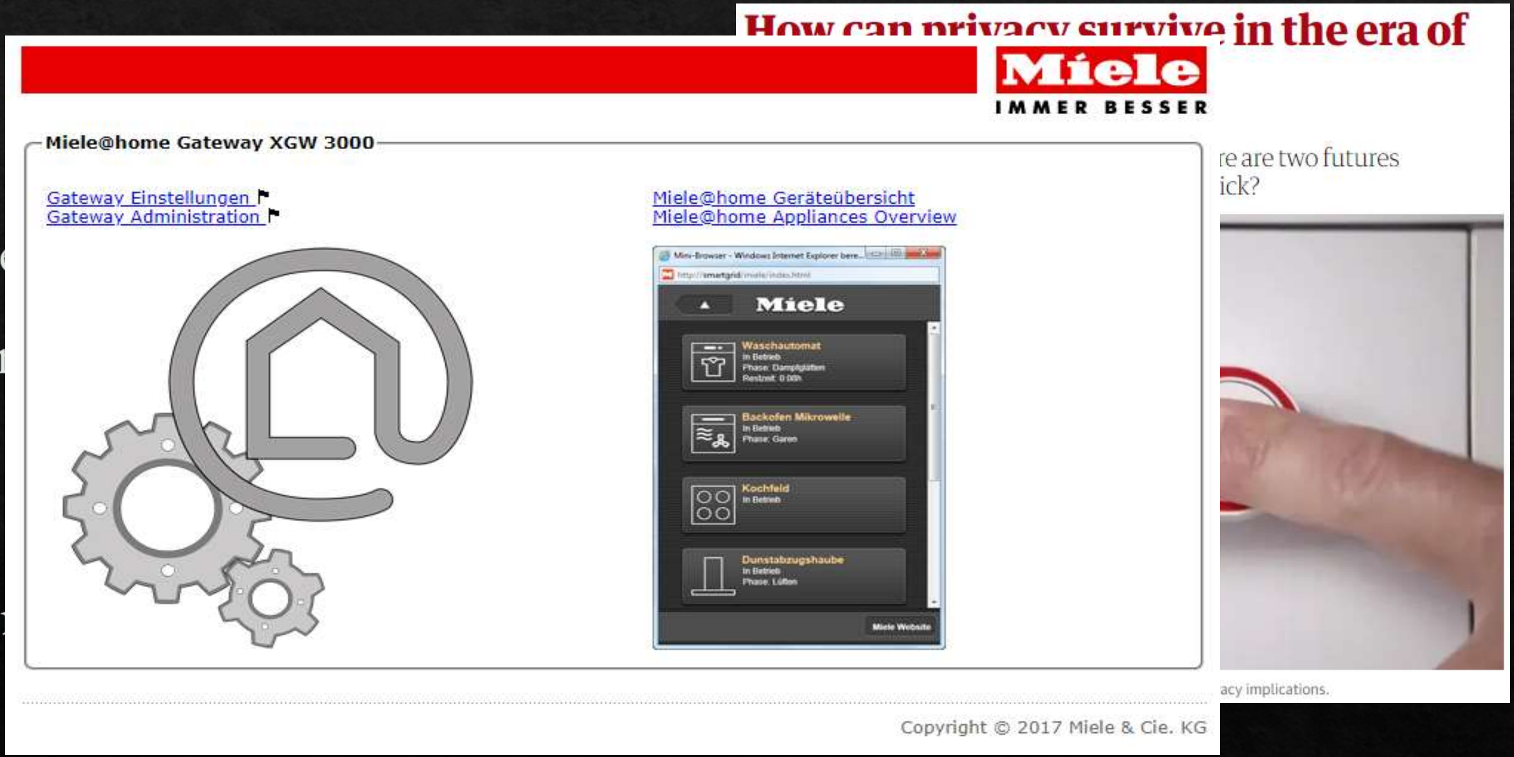
Honeywell Notifier 443/https

metadata.device_type: fire alarm

BUILDING CONTROL EMBEDDED FIRE ALARM

Privacy Challenges

- Smart devices
- Smart appliances
- Smart electric mete
- Iranian IOT camer
  - Required to be
    locations
  - Monitored by I
  - Images used by



How can privacy survive in the era of

re are two futures
ick?

acy implications.

Miele
IMMER BESSER

Miele@home Gateway XGW 3000

Gateway Einstellungen
Gateway Administration

Miele@home Geräteübersicht
Miele@home Appliances Overview

Mini-Browser - Windows Internet Explorer bere...

http://smartgrid/miele/index.html

Miele

Waschautomat
In Betrieb
Phase: Dampfglätten
Restzeit: 0:00h

Backofen Mikrowelle
In Betrieb
Phase: Garen

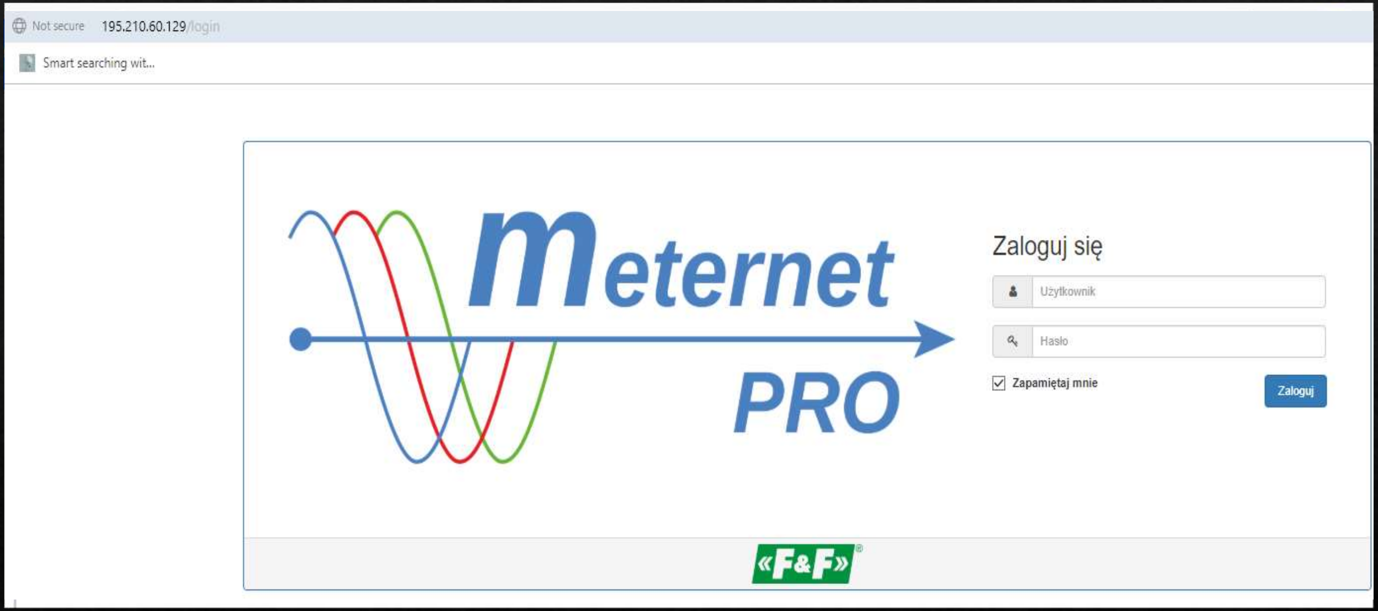
Kochfeld
In Betrieb

Dunstabzugshaube
In Betrieb
Phase: Lüften

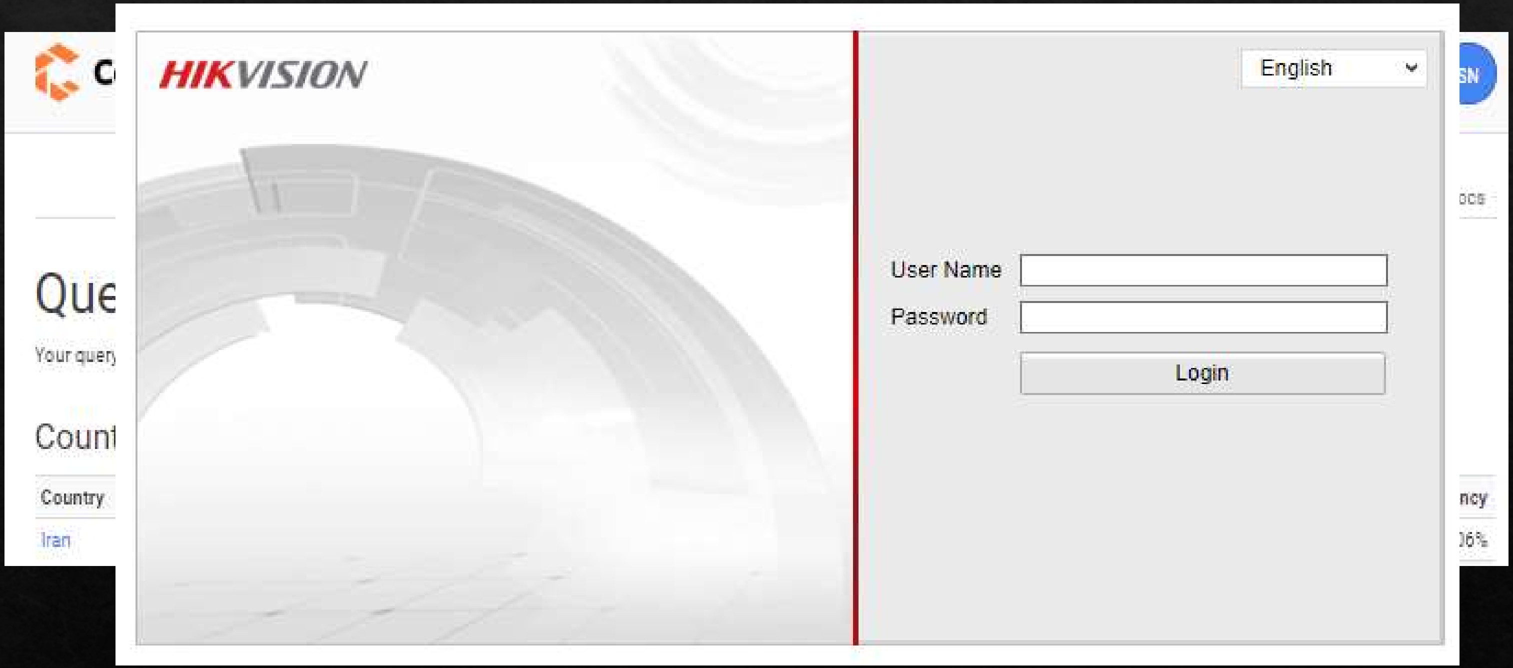
Copyright © 2017 Miele & Cie. KG

Chris Kubecka @SecEvangelism

Smart Meters

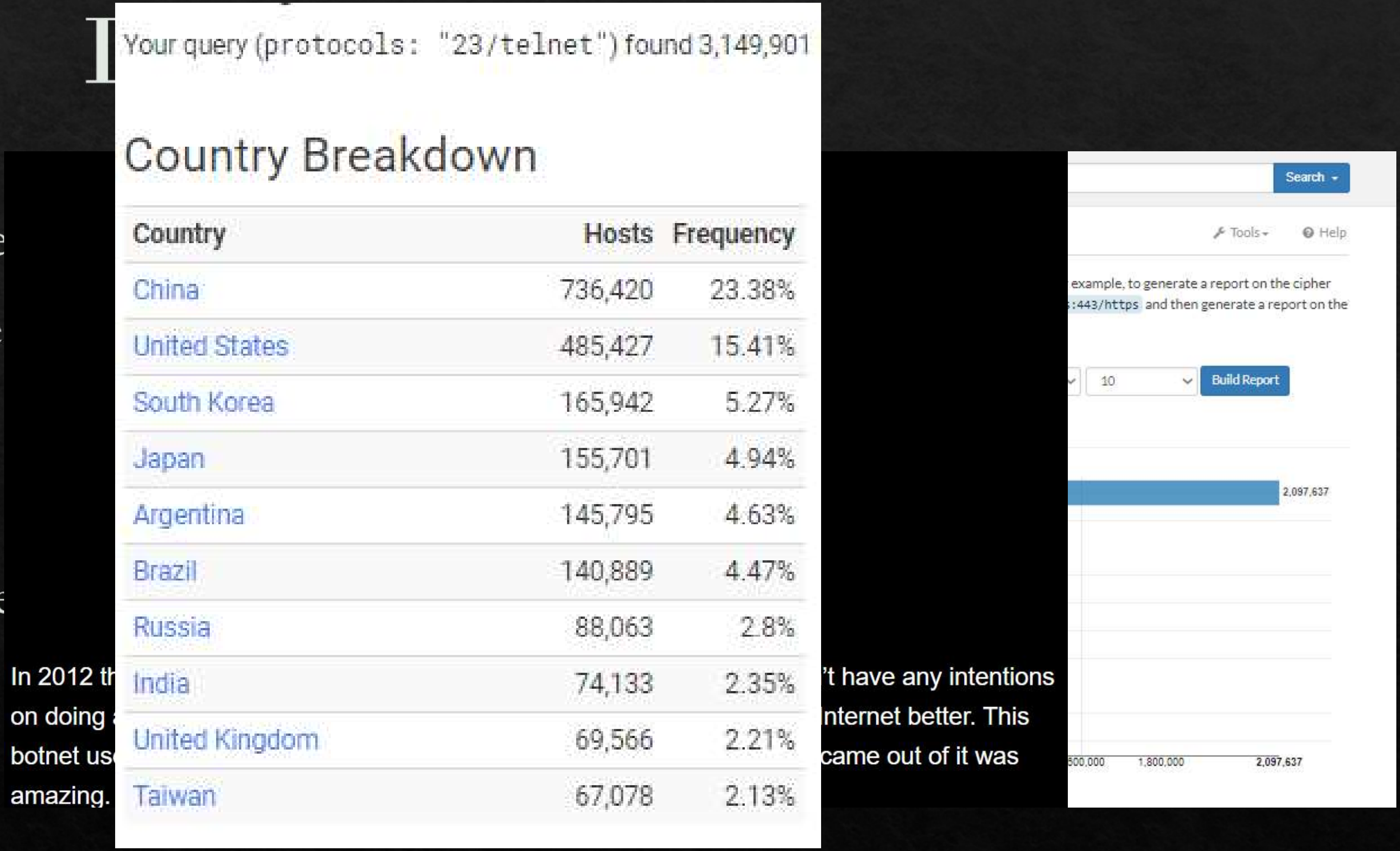


Iranian IOT Cameras



I

- ◈ Older Linux kerne
- ◈ Known vulnerable
- ◈ Open ports
- ◈ Old technology
- ◈ Security nightmare



Your query (protocols: "23/telnet") found 3,149,901

Country Breakdown

Country	Hosts	Frequency
China	736,420	23.38%
United States	485,427	15.41%
South Korea	165,942	5.27%
Japan	155,701	4.94%
Argentina	145,795	4.63%
Brazil	140,889	4.47%
Russia	88,063	2.8%
India	74,133	2.35%
United Kingdom	69,566	2.21%
Taiwan	67,078	2.13%

In 2012 th 't have any intentions
on doing a Internet better. This
botnet us came out of it was
amazing.

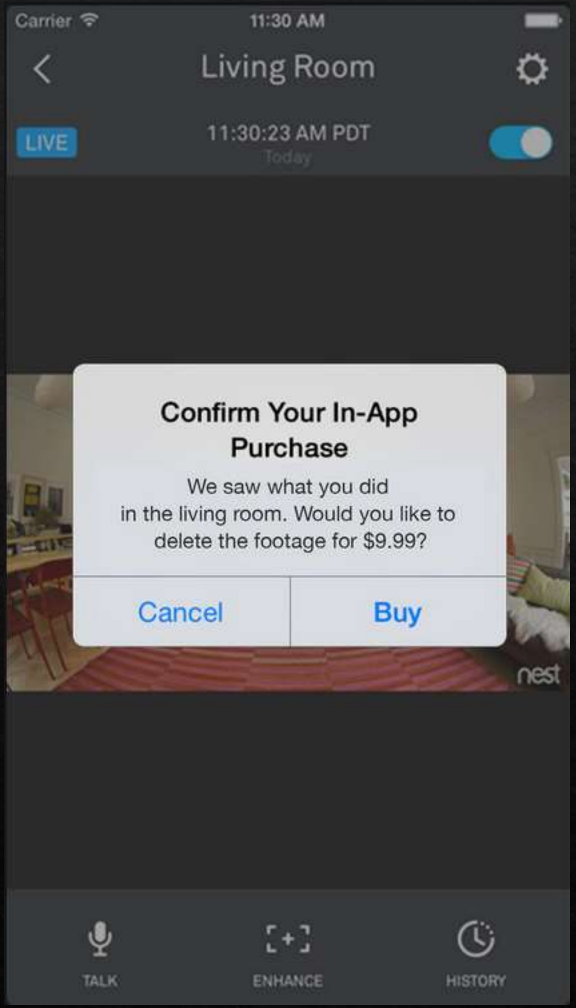
example, to generate a report on the cipher
:443/https and then generate a report on the

IOT Cyberwar Strategy

- Most are privately owned
- Can be used during an Act of Emergency
- No international definition of cyberwar (yet)
- Amplification after digital borders closed
- Can be attacked or used to attack
    - Dual Use

Possible Solutions

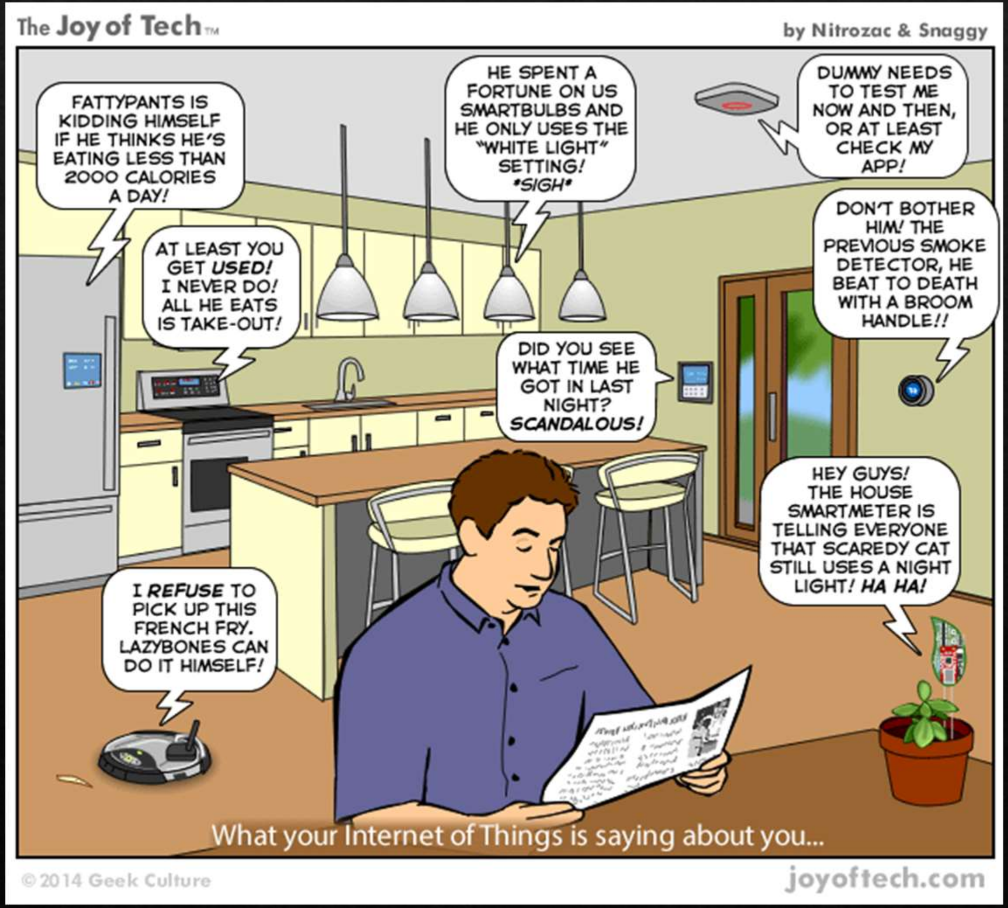
- Proactive EU level CERT
- Including cyber in all EU national defense
- Basic regulations
- Joint EU & US response plans
- Vendor liability
- S-BOM Software bill of materials
- Stop connecting everything to the internet (?)



Confirm Your In-App Purchase

We saw what you did in the living room. Would you like to delete the footage for $9.99?

Questions


The Joy of Tech™
by Nitrozac & Snaggy
FATTYPANTS IS KIDDING HIMSELF IF HE THINKS HE'S EATING LESS THAN 2000 CALORIES A DAY!
AT LEAST YOU GET USED! I NEVER DO! ALL HE EATS IS TAKE-OUT!
HE SPENT A FORTUNE ON US SMARTBULBS AND HE ONLY USES THE "WHITE LIGHT" SETTING! *SIGH*
DUMMY NEEDS TO TEST ME NOW AND THEN, OR AT LEAST CHECK MY APP!
DON'T BOTHER HIM! THE PREVIOUS SMOKE DETECTOR, HE BEAT TO DEATH WITH A BROOM HANDLE!!
DID YOU SEE WHAT TIME HE GOT IN LAST NIGHT? SCANDALOUS!
HEY GUYS! THE HOUSE SMARTMETER IS TELLING EVERYONE THAT SCAREDY CAT STILL USES A NIGHT LIGHT! HA HA!
I REFUSE TO PICK UP THIS FRENCH FRY. LAZYBONES CAN DO IT HIMSELF!
What your Internet of Things is saying about you...
©2014 Geek Culture
joyoftech.com

Thank you

- @SecEvangelism
- https://en.wikipedia.org/wiki/Chris_Kubecka
- Hacking the World with OSINT & Censys
- Down the Rabbit Hole an OSINT Journey
- Dank u wel @_Manonsens