

RSA®Conference2015

San Francisco | April 20-24 | Moscone Center

SESSION ID: HTA-W03

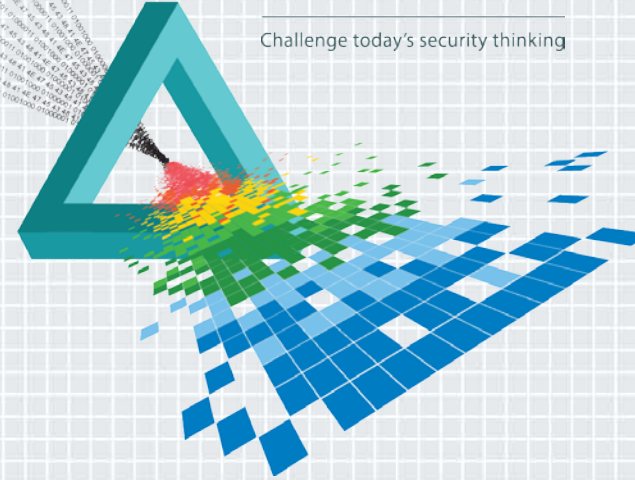
How Vulnerable Are Our Homes? - The Story of How My Home Got Hacked

David Jacoby

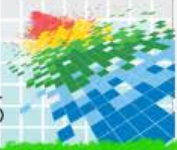
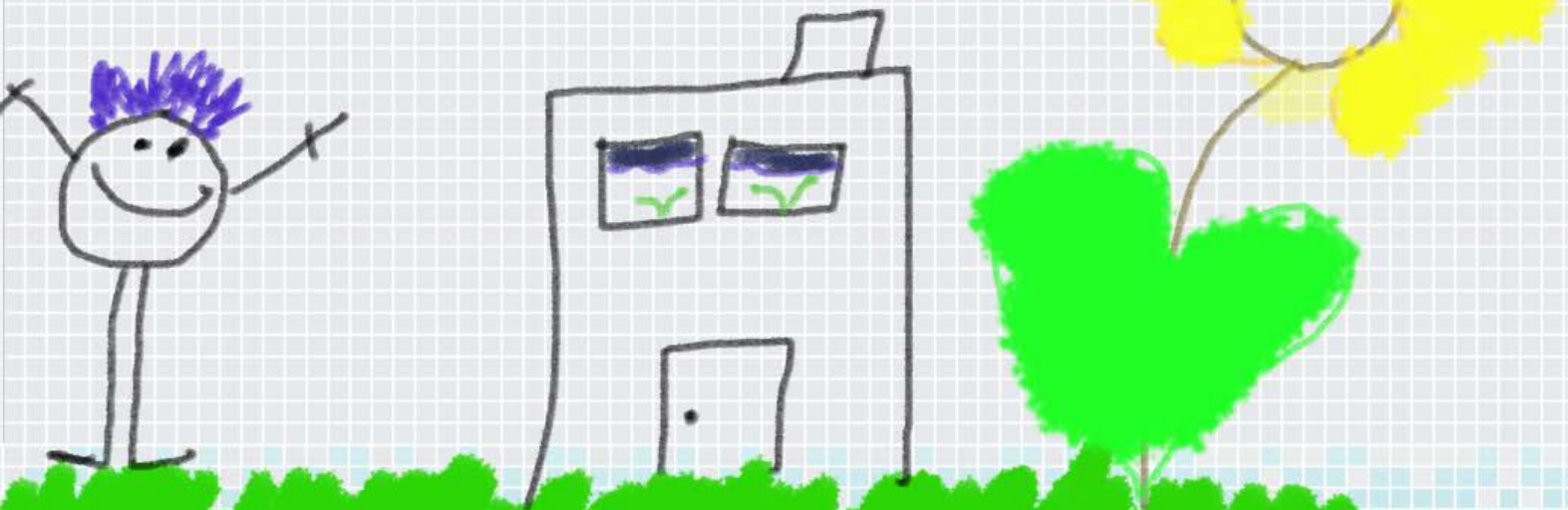
Security Evangelist – Kaspersky Lab
@JacobyDavid

CHANGE

Challenge today's security thinking



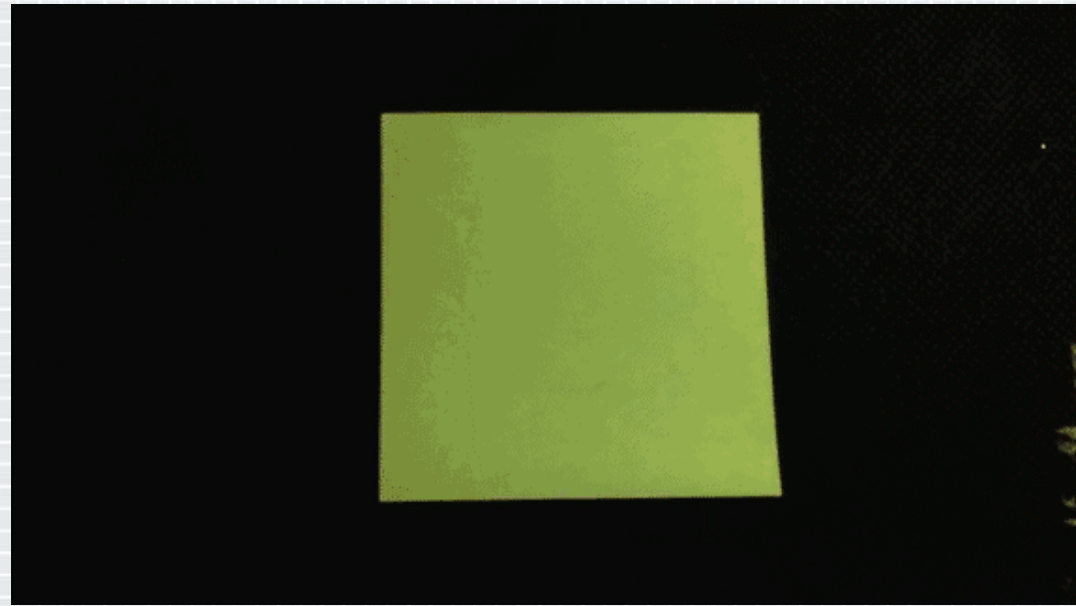
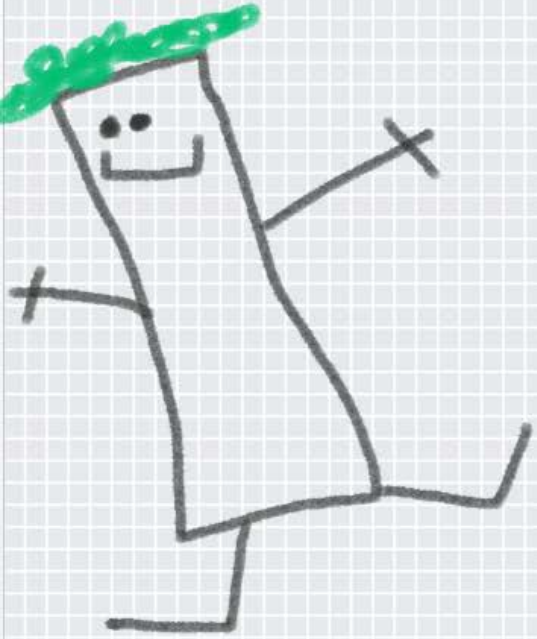
How I HACKED MY HOME!





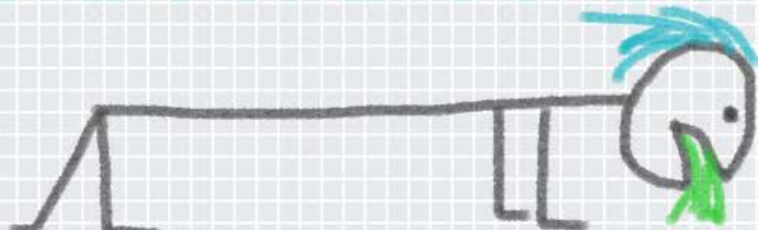
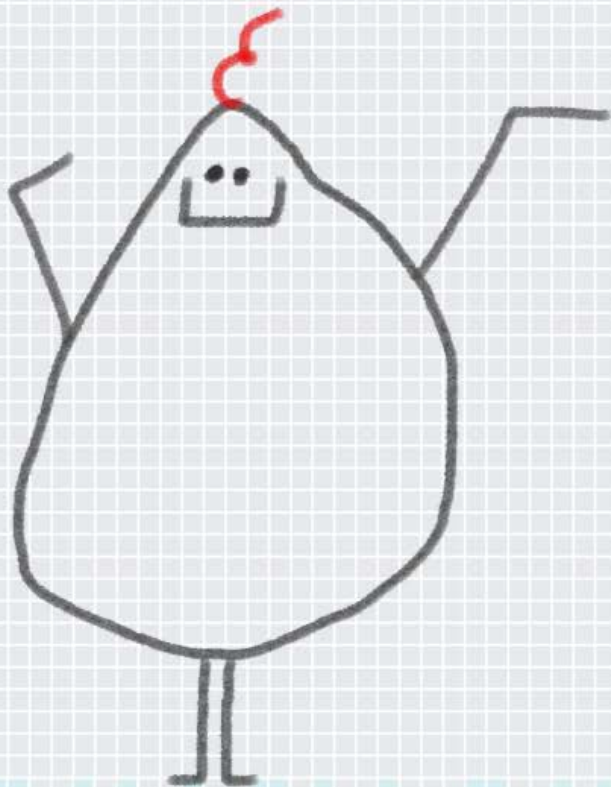
DAVID JACOBY





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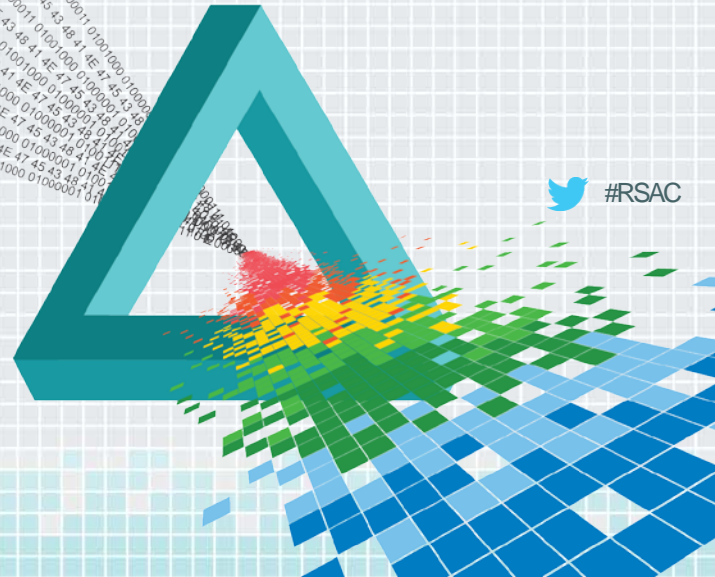




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WHAT IS IT-SECURITY?

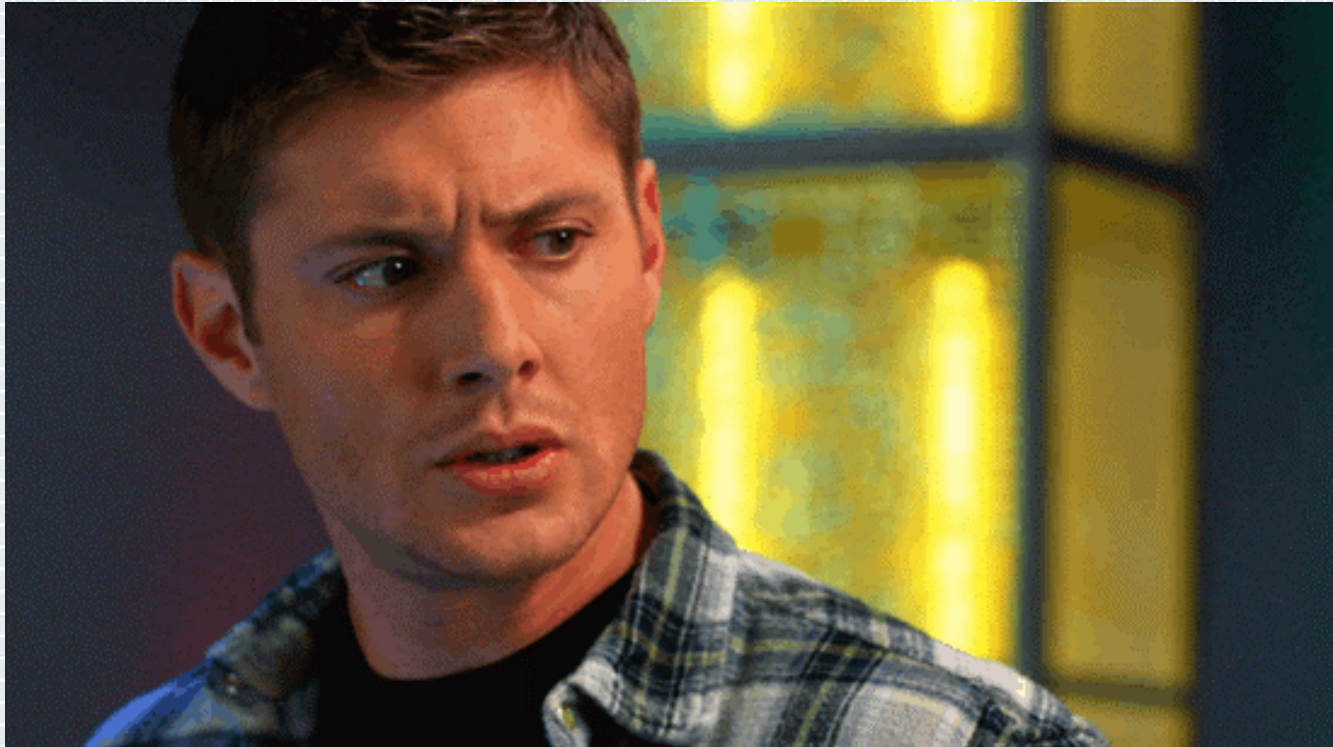


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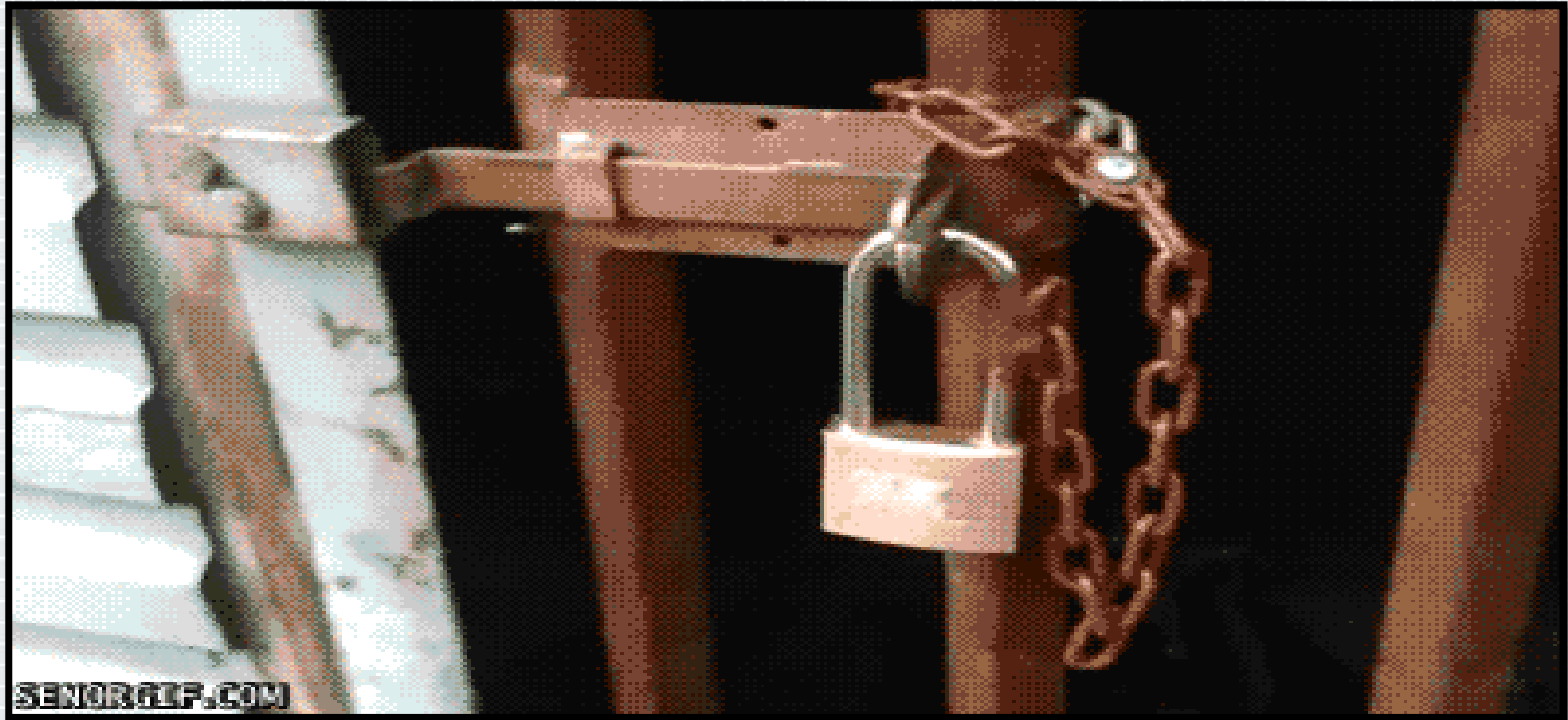




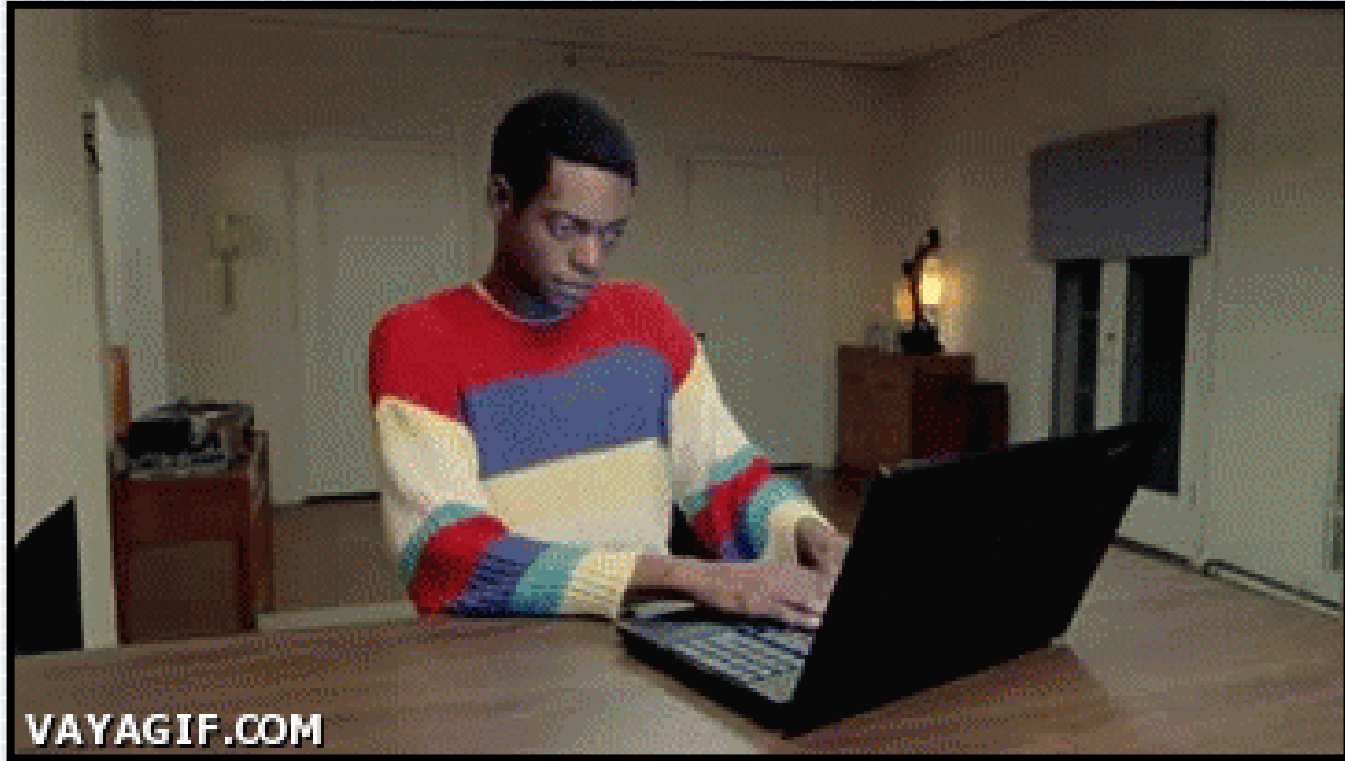












VAYAGIF.COM

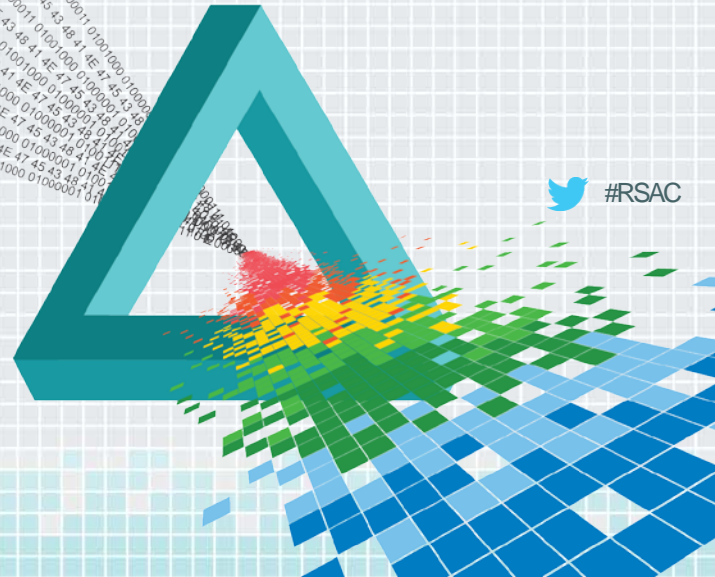




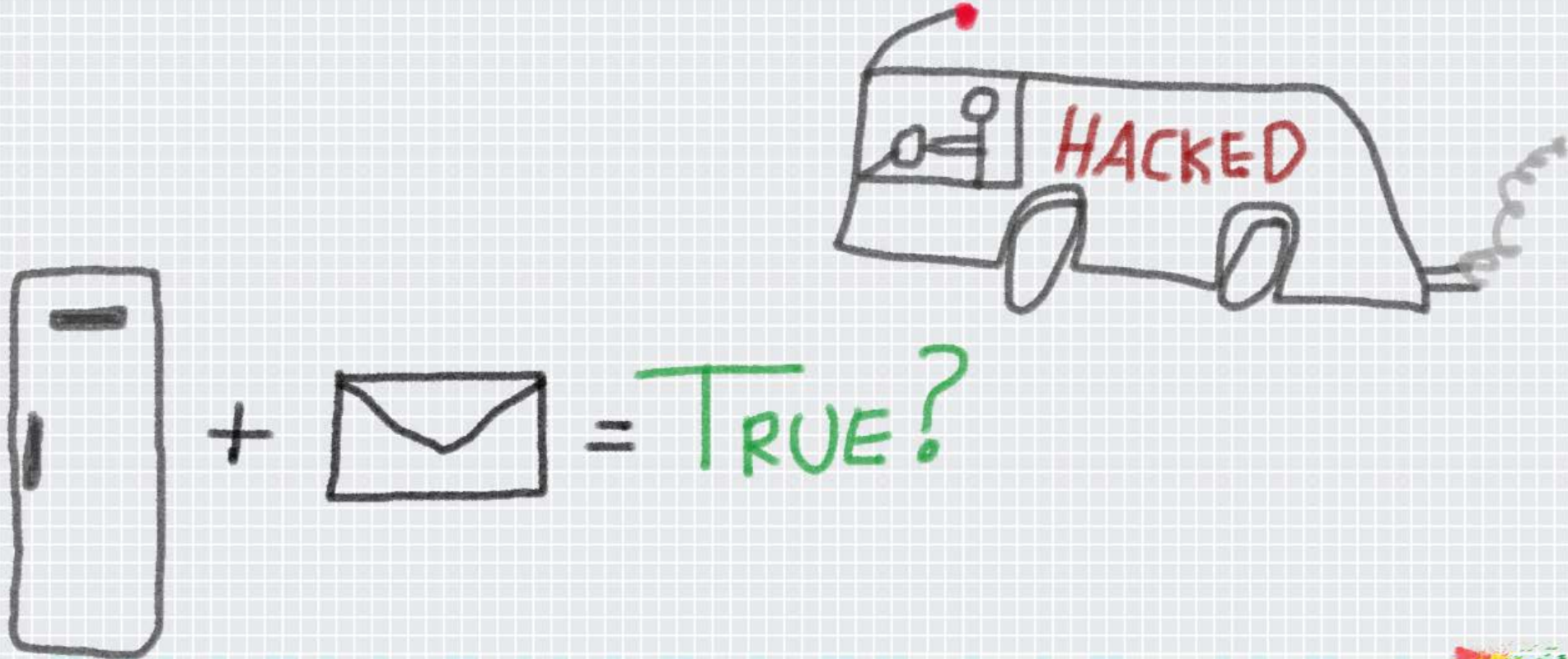
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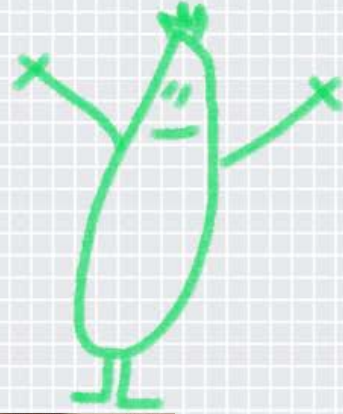
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WHAT IS IOT SECURITY?



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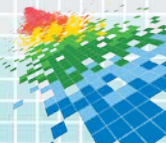


OMG!

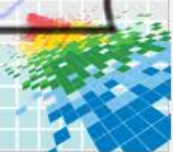
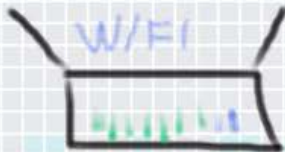
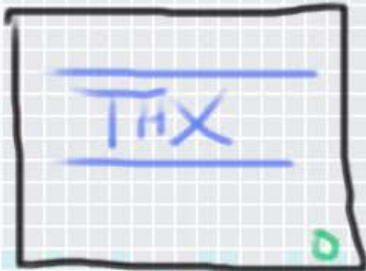


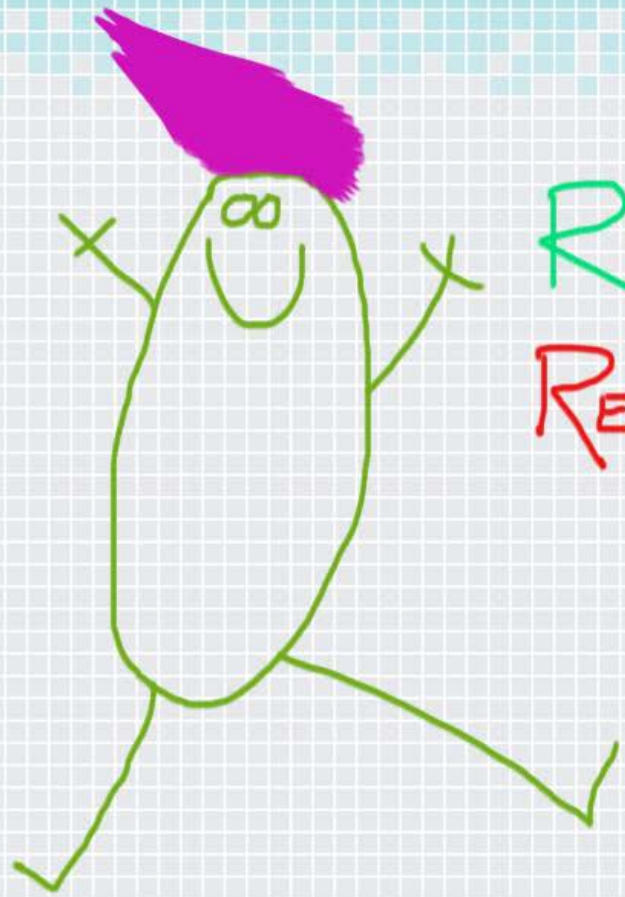
OMG!





MY DEVICES





REMOTE PRE-AUTH r00t VULN

REMOTE PRE-AUTH CONFIG DOWNLOAD

TROJANIBLE

NAS




```

Terminal - david@ubuntu: ~/code/iot-research
... [BLACK ARMOR CONFIG EXTRATOR] ...
-----
[!] Downloading configuration file
* Machinename: BA-073098
* Description: storage

[!] Extrating usernames and passwords!

- username: admin
- fullname: Administrator
- passwd:
- smblan:
- smbnt:
- admin: yes

- username: heidi
- fullname:
- passwd:
- smblan:
- smbnt:
- admin: HASH(0x182fda0)

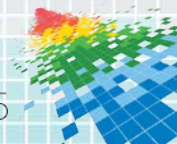
- username: david
- fullname: David Jacoby
- passwd:
- smblan:
- smbnt:
- admin: yes

- username: ftpuser
- fullname: FTP user
- passwd:
- smblan:
- smbnt:
- admin: HASH(0x18328a0)

- username: test
- fullname: Test User
- passwd:
- smblan:
- smbnt:
- admin: yes

david@ubuntu:~/code/iot-research$ █

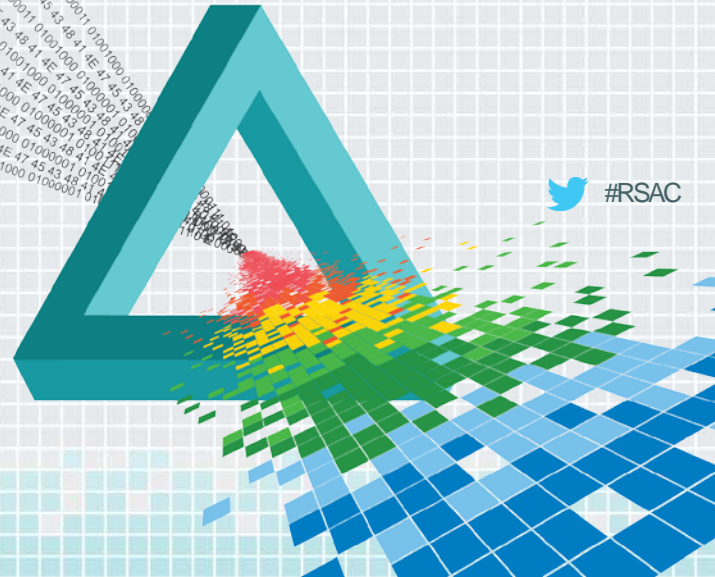
```



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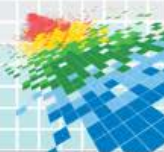
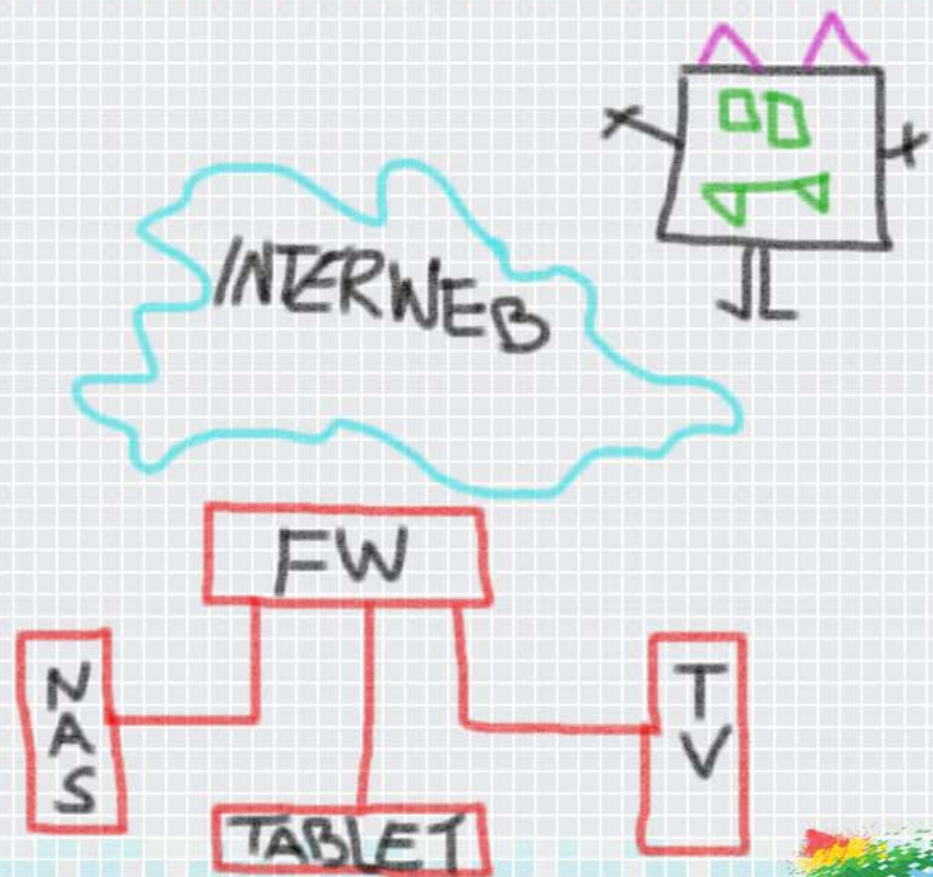
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HACKING IT REMOTELY!

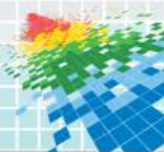
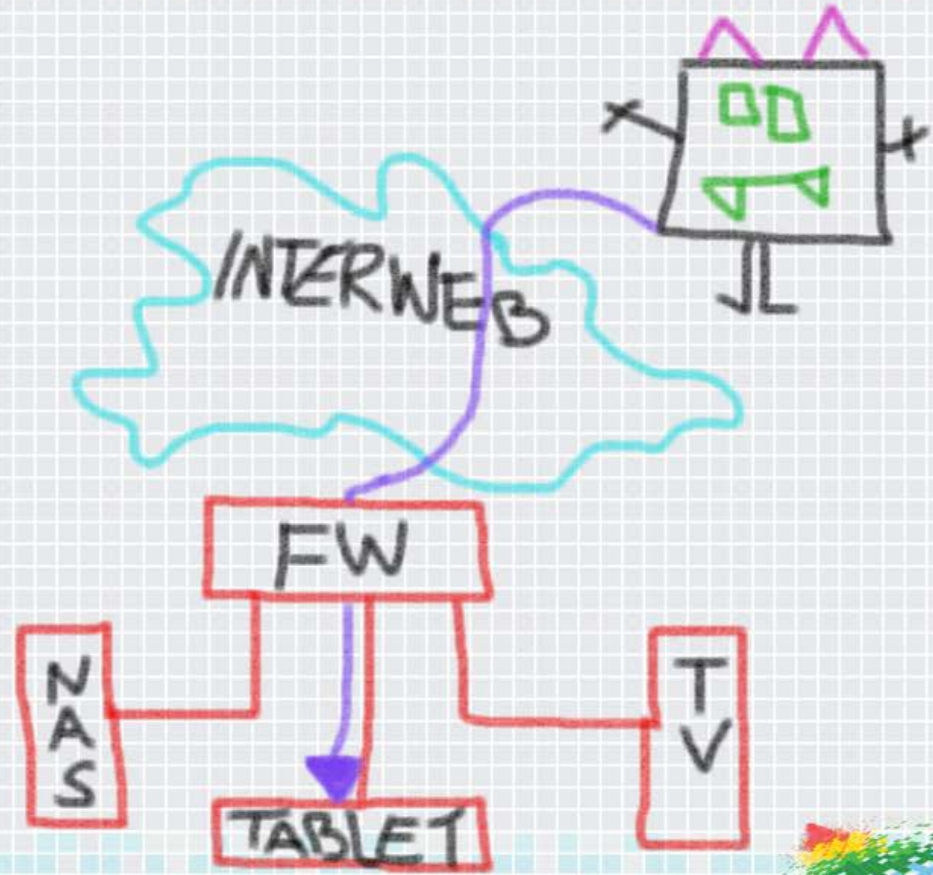


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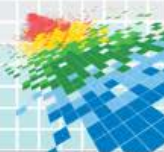
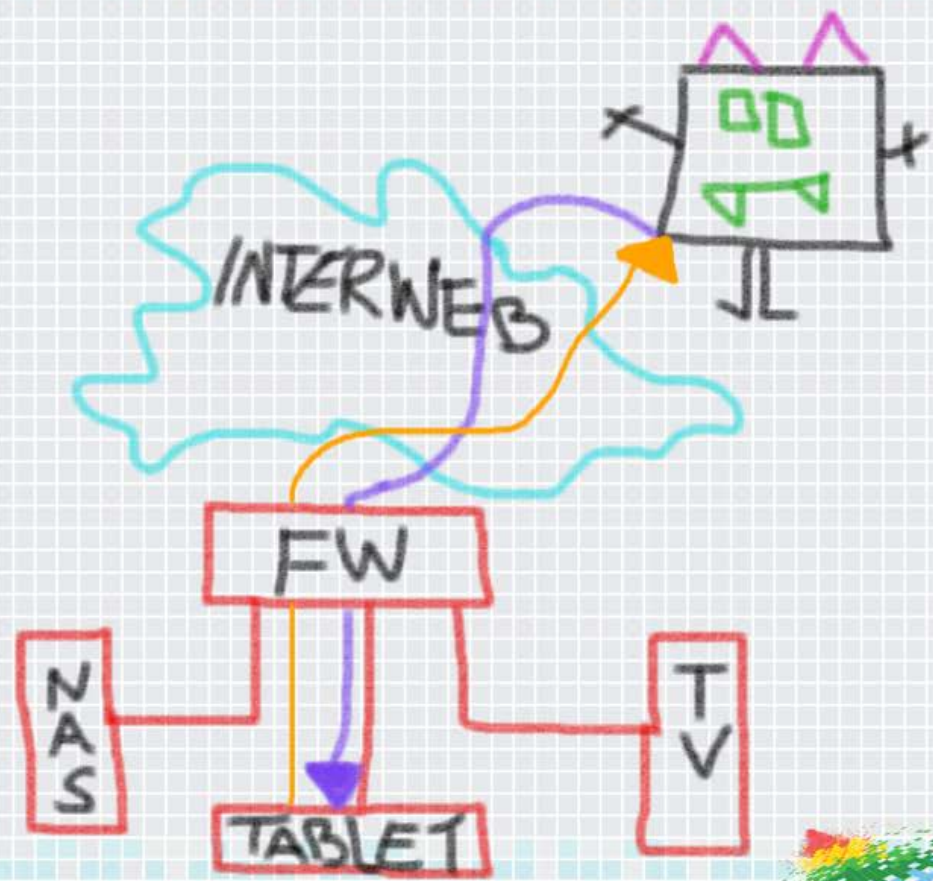
MY NORMAL SETUP



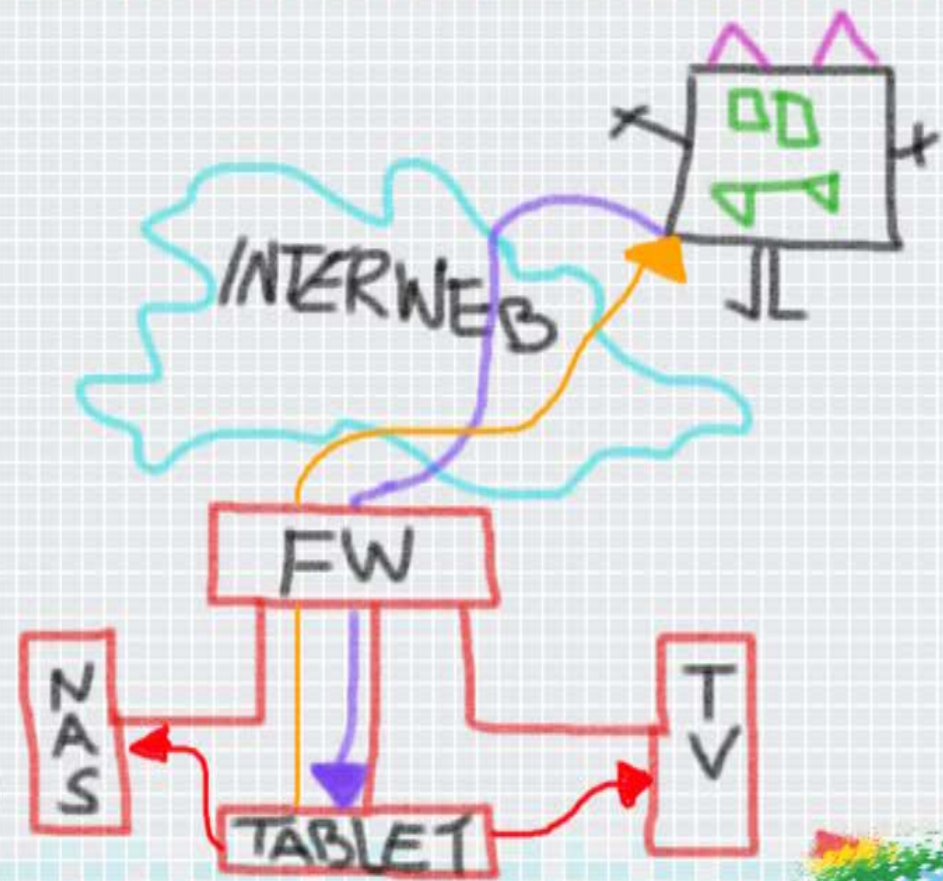
SEND LINK!



VISITS LINK



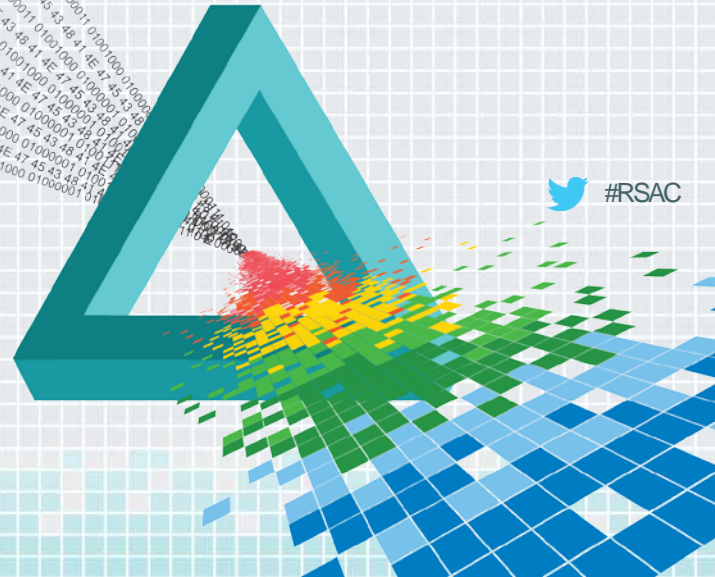
STARTS SCANNING



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LIVE DEMO!!!

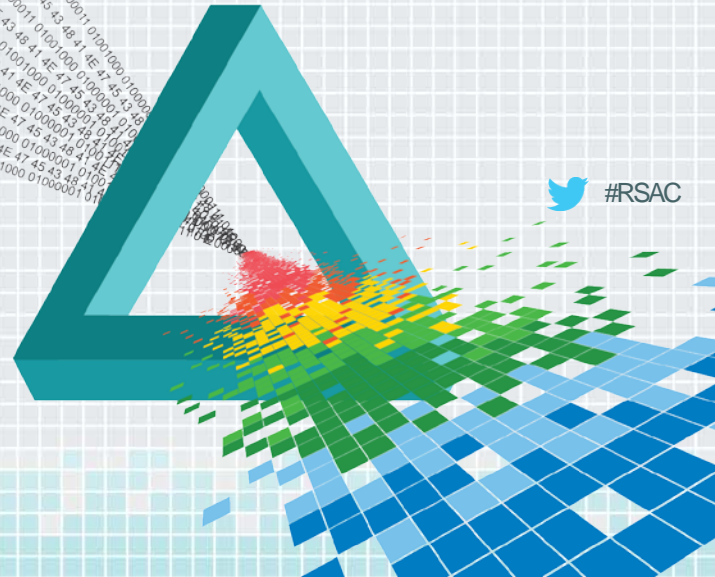


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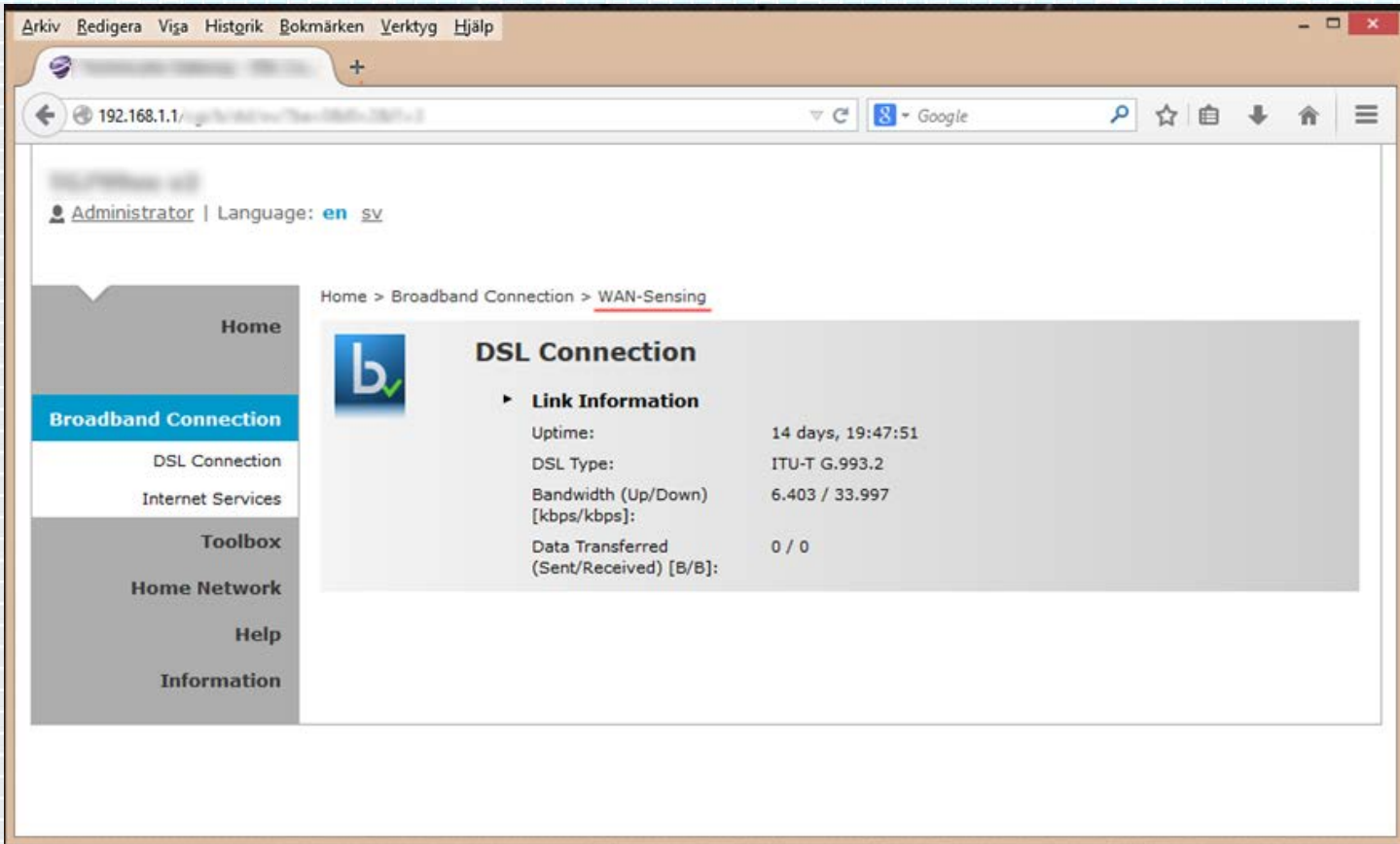
OTHER DEVICES?



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Z



Arkiv Redigera Visa Historik Bokmärken Verktyg Hjälp

192.168.1.1/

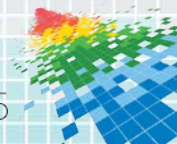
Administrator | Language: [en](#) [sv](#)

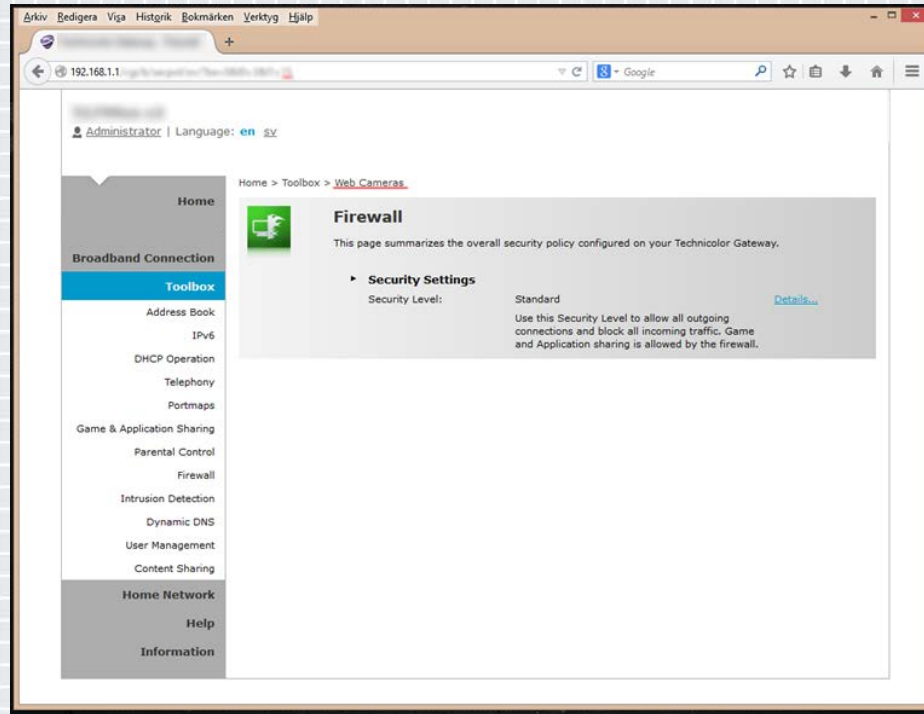
Home > Broadband Connection > WAN-Sensing

DSL Connection

Link Information

Uptime:	14 days, 19:47:51
DSL Type:	ITU-T G.993.2
Bandwidth (Up/Down) [kbps/kbps]:	6.403 / 33.997
Data Transferred (Sent/Received) [B/B]:	0 / 0





Arkiv Bedigera Visa Histgnik Bokmärken Verktyg Hjälp

192.168.1.1

Administrator | Language: en sv

Home > Toolbox > Web Cameras

Firewall

This page summarizes the overall security policy configured on your Technicolor Gateway.

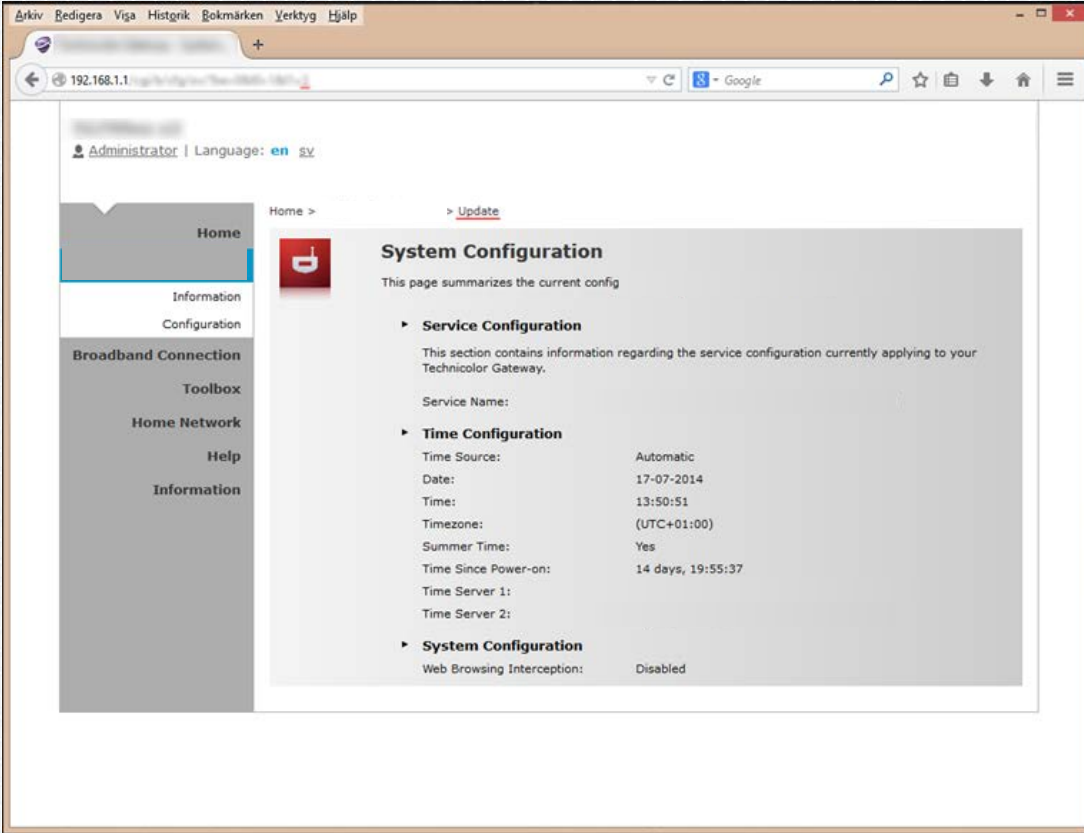
- **Security Settings**
 - Security Level: Standard [Details...](#)

Use this Security Level to allow all outgoing connections and block all incoming traffic. Game and Application sharing is allowed by the firewall.

Home Network

- Help
- Information





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192.168.1.1

Administrator | Language: en sv

Home > > Update

System Configuration

This page summarizes the current config

- ▶ **Service Configuration**

This section contains information regarding the service configuration currently applying to your Technicolor Gateway.

Service Name:
- ▶ **Time Configuration**

Time Source:	Automatic
Date:	17-07-2014
Time:	13:50:51
Timezone:	(UTC+01:00)
Summer Time:	Yes
Time Since Power-on:	14 days, 19:55:37
Time Server 1:	
Time Server 2:	
- ▶ **System Configuration**

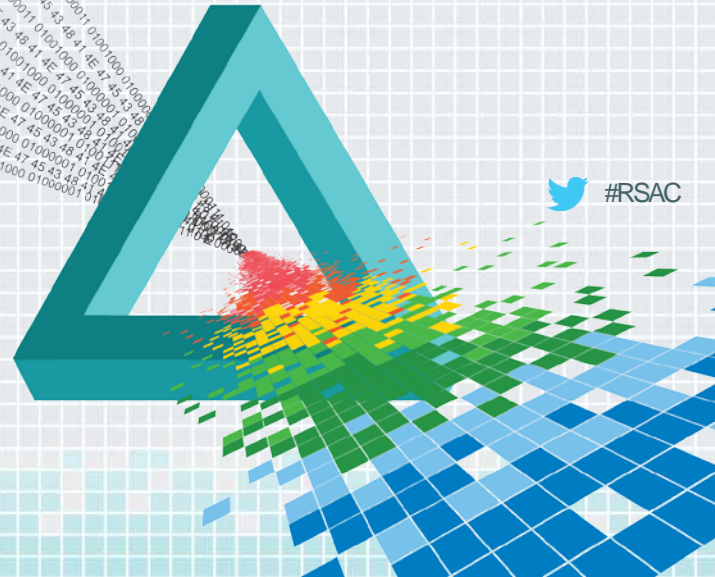
Web Browsing Interception:	Disabled
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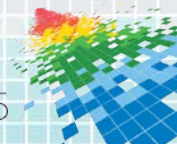
CONCLUSION



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CONCLUSIONS

- ◆ More and more devices gets connected!
- ◆ Bad guys are already hacking us!
- ◆ Exploitation is easy and effective



CONCLUSIONS

- ◆ Good solutions for software vendors
 - ◆ BuildItSecure.ly
 - ◆ I Am The Cavalry
 - ◆ OWASP
 - ◆ iEEE Guides

- ◆ No solutions / help for consumers

