



Security Assessment of IoT Devices and Services

By: José Ramón Monleón





What is happening?



Threats



Thousands of attacks aimed at client routers ... botnets like Satori, Matusa ... Leaks

Technology | CyberSecurity

What is Masuta? Hacker Nexus Zeta behind Satori botnet creates new Mirai 'master' variant

The Masuta botnet uses a weaponised router exploit to recruit more vulnerable IoT devices and expand.

Source: https://www.ibtimes.co.uk/what-masuta-hacker-nexus-zeta-behind-satori-botnet-creates-new-mirai-master-variant-1656572



Source:

https://informationisbeautiful.net/visualizations/worl
ds-biggest-data-breaches-hacks/

Masuta: Satori Creators' Second Botnet Weaponizes A New Router Exploit.



Source: https://blog.newskysecurity.com/masuta-satori-creators-second-botnet-weaponizes-a-new-router-exploit-2ddc51cc52a7

Google to shut down Google+ after failing to disclose user data leak

Company didn't disclose leak for months to avoid a public relations headache and potential regulatory enforcement

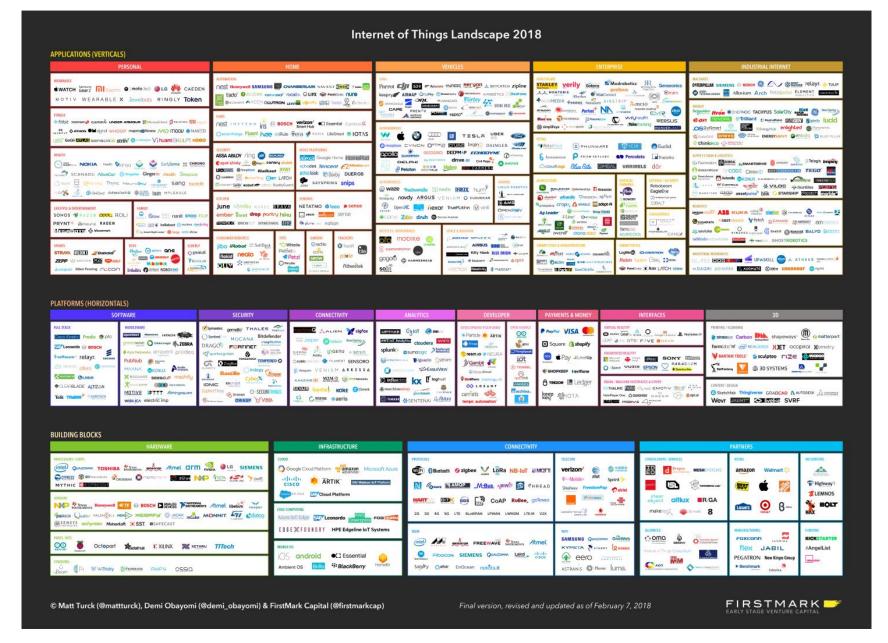
Source:

https://www.theguardian.com/technology/2018/oct/08/google-plus-security-breach-wall-street-journal



Environment









Certification Guidelines



Initiatives in progress







Promoting best practice for the secure design, development and deployment of IoT services, and providing a mechanism to evaluate security measures, the GSMA IoT Security Guidelines and IoT Security Assessment help create a secure IoT market with trusted, reliable services that can scale as the market grows.



ECSO: European Cyber Security Organization (October 2016)

July 2016 European Commission signs an agreement with the private sector to develop a common framework a market in cybersecurity.



ENISA: European Union Agency for Network and Information Security June 2018 the European Commission grants permanent status to the EU Cybersecurity Agency.



ETSI: European Telecommunications Standards Institute

19 February 2019. The ETSI Technical Committee on Cybersecurity (TC CYBER) has just released *ETSI TS 103 645*, a standard for cybersecurity in the Internet of Things, to establish a security baseline for internet-connected consumer products and provide a basis for future IoT certification schemes.





What are we doing?



iSec4loT Intelligent Security for IoT



Center of excellence for devices, CPEs and IoT, for control and security audits of Orange and Jazztel routers and IoT

- Security flaws detection
- Security incidents prevention
- Security certifications
- Replication of client scenarios in controlled environments











Thanks Gracias