

CYBERCRIME FRIENDLY SALES POLICY...

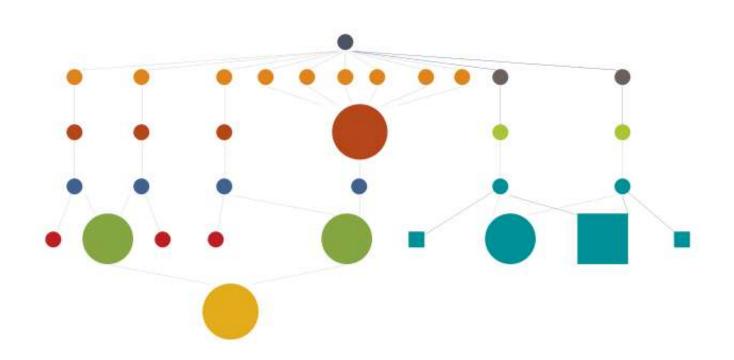
Varis Teivans 05.10.2017. Kiberšahs 2017, Riga, Latvia

Why Cybercrime friendly?

- Free SSL "Let's Encrypt" is reducing costs for attackers to stay covert in their operations
- Low Cost domain names, fast registration & activation, anonymity, crypto currency
- Low cost hosting services, anonymity, crypto currency
 - IP source address spoofing

Data is needed to find the answers

- Indicators Of Compromise
 - IP
 - DNS
 - URI
- HOSTING
 - ORG-name
 - Accepts cryptocurrency?
- Historical data sets
 - PDNS & P-Whois
 - PSSL



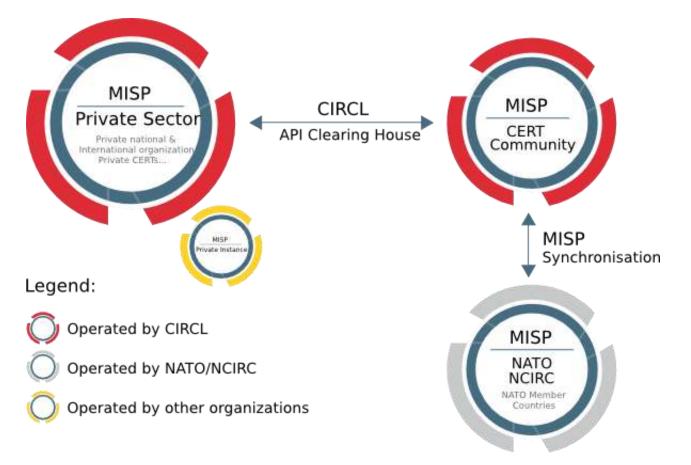
Data sources - IOC

•2.3 million records

CERT.LV

Information Technologies Security Incident Response Institution





DNS & some difficulties along the way

- DNS price range 0 5 \$ / yr mapping them on IOCs
- Safeguards to mitigate DNS abuse?
 - Yes, DNS crowd is working on that... ICANN working group https://www.icann.org/news/announcement-2-2016-03-15-en
- Common TOS helping CERTs to make a difference
- Common whois requirements thick and machine friendly data

DNS



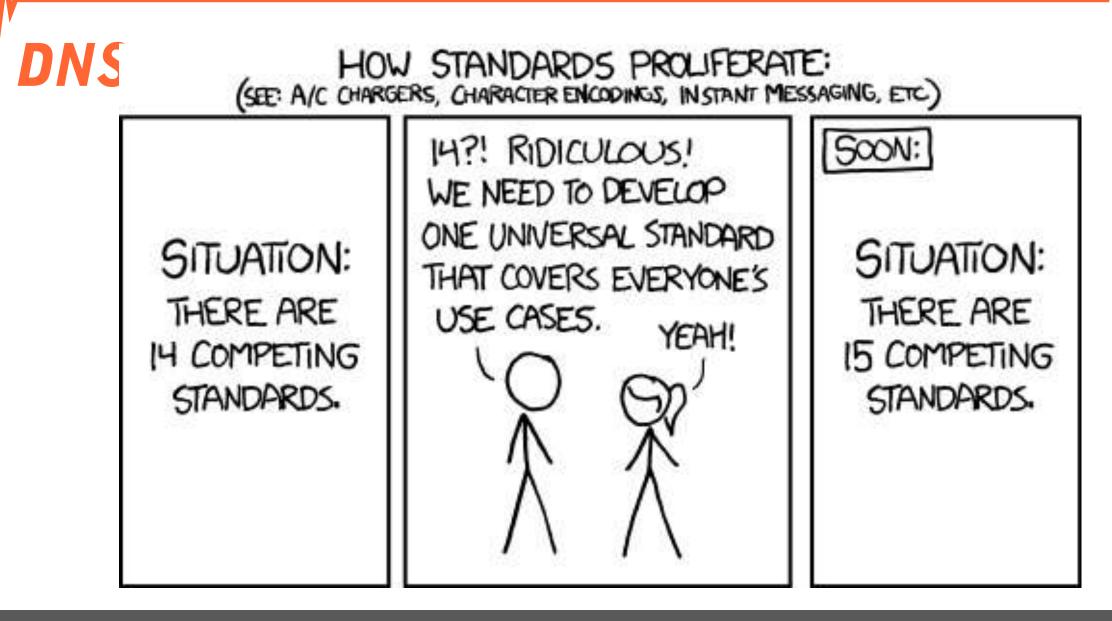
About Whois Format

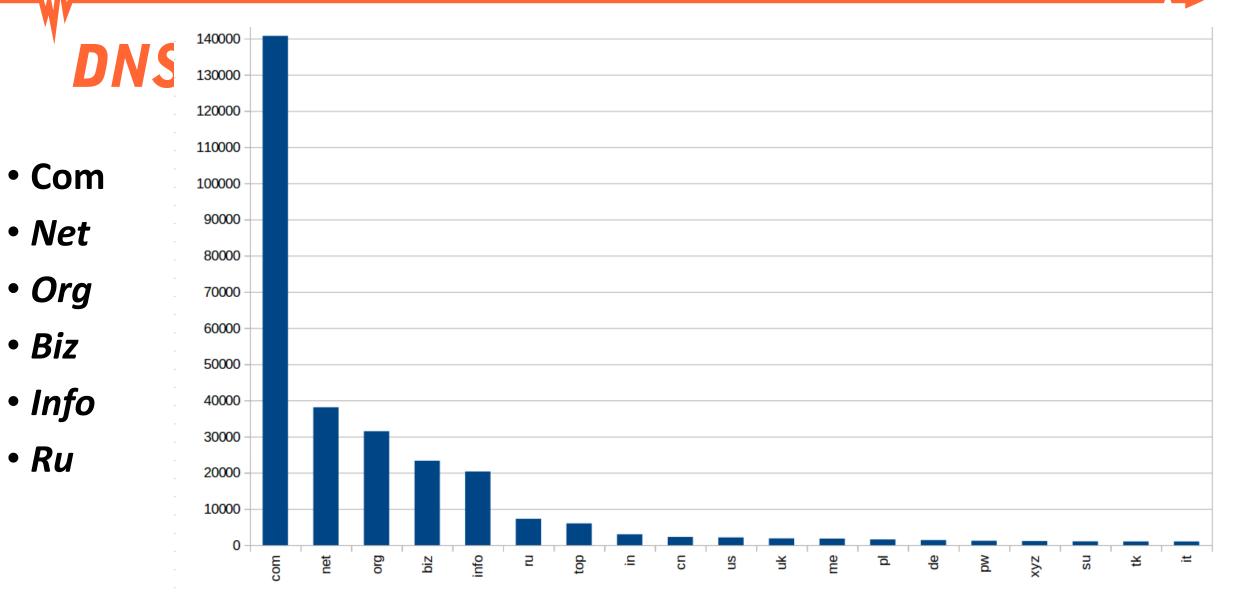
The 2013 Registrar Accreditation Agreement (RAA) requires ICANN-Accredited registrars to provide registration data (Whois) in a specific format. The specific format is detailed in the Registration Data Directory Service (Whois) Specification.

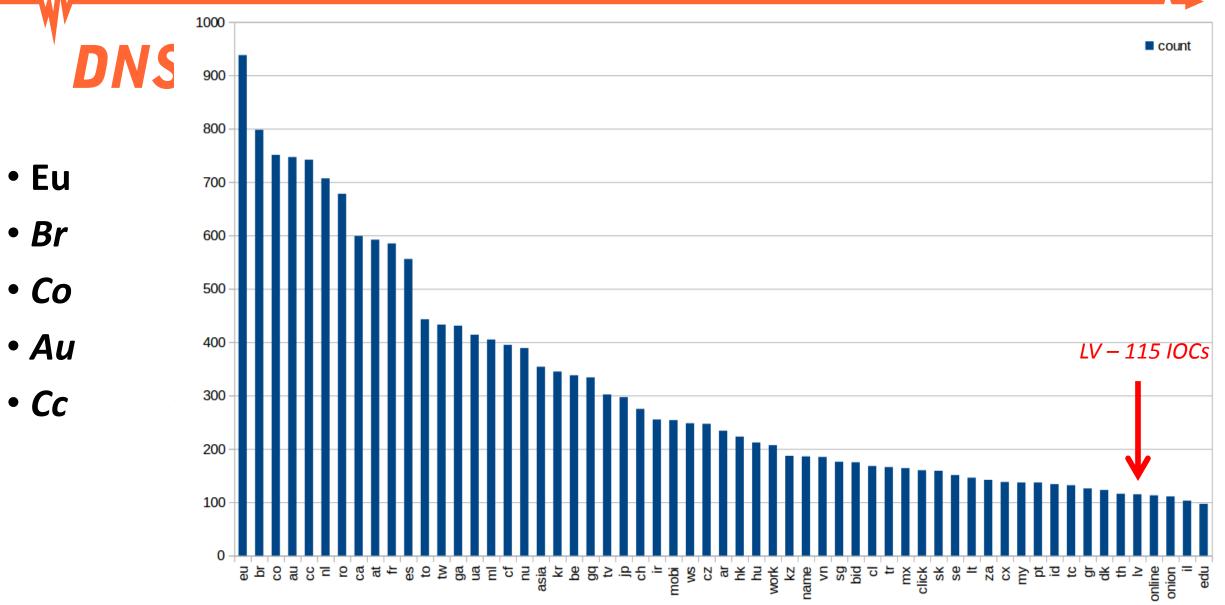
Registrars still under the 2001 or 2009 RAA do not have this requirement.

To determine which RAA version applies to your registrar, visit the ICANN-Accredited Registrars page, which lists the RAA version for every registrar.

If you have a complaint regarding incorrectly formatted Whois data, please submit a Whois Service Complaint Form.







DNS

tld	count
info	20358
ru	7296
top	6026
in	3005
cn	2265
us	2133
<mark>uk</mark>	1868
me	1810
pl	1563
de	1404
pw	1221
xyz	1143
<u>su</u>	1038
tk	1016
it	1006

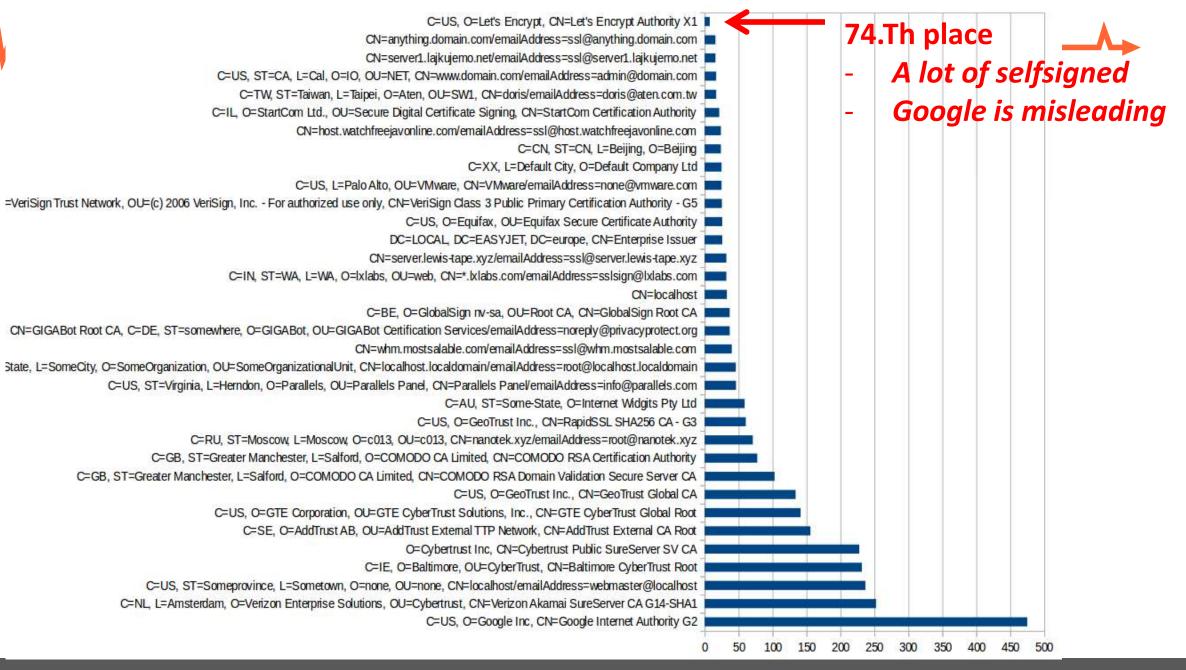
15 - 25 EUR----->

SSL

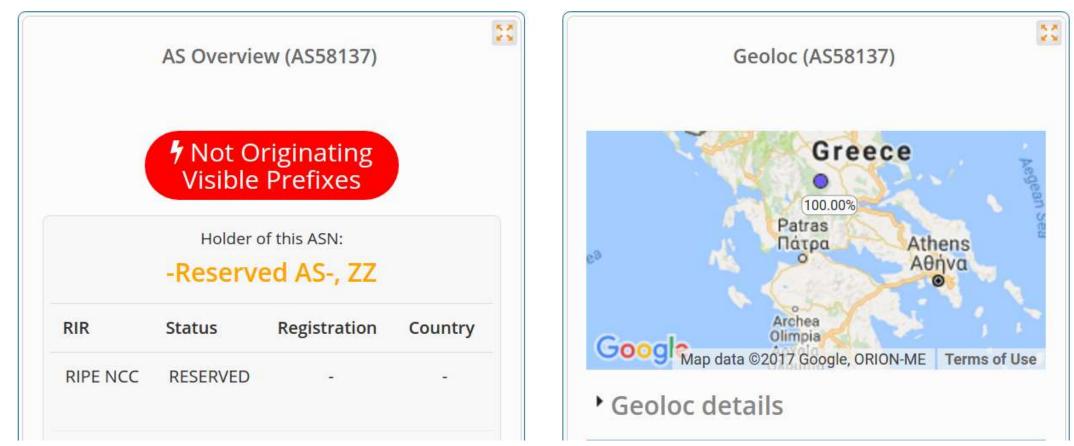
- Observations
- Trustworthiness
- Good VS Bad
- PSSL Passive SSL Database CIRCL.LU
 - Idea from GCHQ project "Flying Pig"







tl	d Autonomous Systems	count
A	S13069 Broadnet AS	4862
A	AS58137 GazInvestProekt ltd.	4859
A	AS16509 Amazon.com, Inc.	4532
A	AS4134 Chinanet	4355
A	AS36947 Telecom Algeria	4313
A	AS44676 VMAGE LLC	<mark>412</mark> 0
A	AS41122 GTO LTD.	4103
A	AS29256 Syrian Telecom	3891
	lone	3327
A	AS16276 OVH SAS	2760
A	AS48721 ADM Service Ltd.	2055
A	AS24940 Hetzner Online GmbH	1642
A	AS15169 Google Inc.	1405
A	AS174 Cogent Communications	1346
A	AS60781 LeaseWeb Netherlands B.V.	13 <mark>1</mark> 9
A	AS14618 Amazon.com, Inc.	1266
A	AS47155 ViaEuropa i Lund AB	1212
A	AS26496 GoDaddy.com, LLC	1100
Α	AS17444 AS number for New World Telephone Ltd.	1015

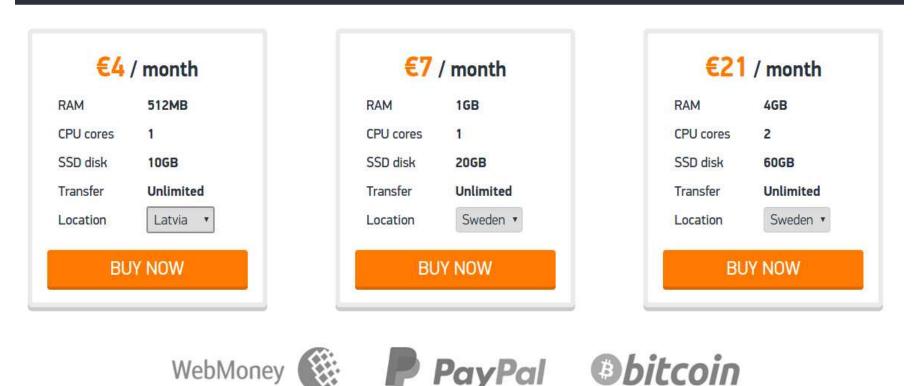


Possibly prefix hijacking of network that is not in use



Hosting

 Best practices are nice as long as there is somebody who cares...



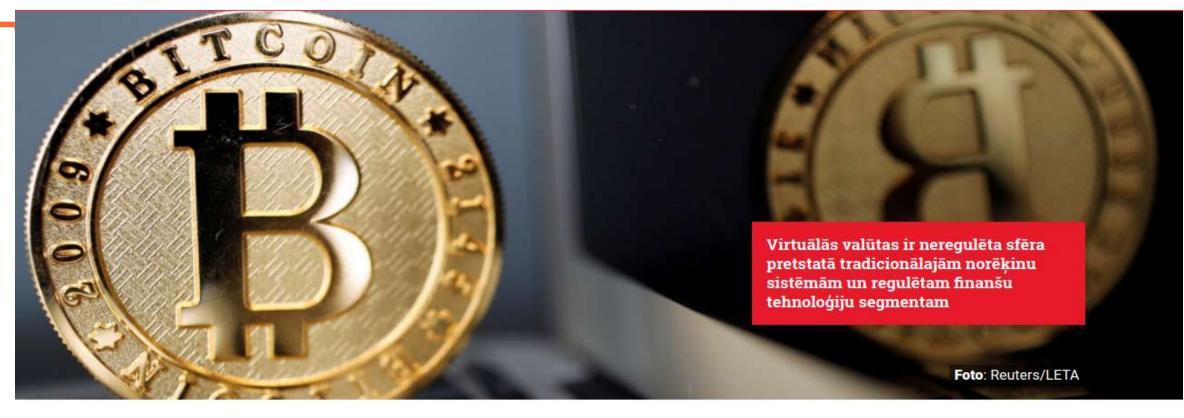
🔕 LINUX VPS

Performance SSD servers for web, streaming, gaming, VPN and everything in between.





r | Q



FKTK: *Bitcoin* nav uzskatāms par oficiālu valūtu, tāpēc jāapzinās riski

"Nebūšu pārsteigts, ja drīz norēķinus klienti vēlēsies veikt ar *Bitcoin* vai citā kriptovalūtā," *Dienai* nesen, raksturojot to, kā virtuālās vides attīstība ietekmē juristu darbu, sacīja zvērināts advokāts, juridiskā biroja *Sorainen* partneris Jānis Taukačs. Pagaidām finanšu sektora pārstāvji gan aicina būt piesardzīgiem, izvēloties virtuālo valūtu. Nesen portāls *Diena.lv*, atsaucoties uz *The Guardian*, vēstīja – ASV ietekmīgās bankas *JP Morgan* vadītājs Džeimijs Daimons sacījis, ka viņš bez vilcināšanās atlaistu darbinieku, kurš investētu kriptovalūtā.

Conclusions

 Results from the available IOC data analysis do not reveal an overwhelming abuse of low cost IT services however, there are strong indications of specific Cybercrime interest (research should be extended)

Conclusions

- Low cost domains (with exceptions) Cyber Crime Friendly
- VPS hosting accepting crypto currency Cyber Crime Friendly
- Free SSL not really but soon..
- Malware hosting & Cyber Crime tourism
- Policy & regulations will come.. Casualties VS Time

Thank you!

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