Project FENIX

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Cape Town

NIX·CZ

Co-financed by the European Union
Connecting Europe Facility

NIX.CZ

Neutral platform for peering

7 data centers in Prague (3 in Bratislava)

157 connected networks

731 Gbps peek data flow

… and Project FENIX

NIX·CZ

History

- Reaction to (D)DoS attacks in 3/2013
  - 4 days long
- Multiple CZ targets
  - media, banks, cell phone operators, Seznam.cz (czech „Google“)
- Lunch Break
- Source of attacks out of CZ (nothing from CZ)
- Through upstream and NIX.CZ
- No response source

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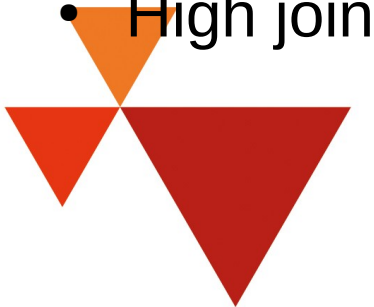
Idea of FENIX

- Club of „trustworthy“ companies
- Technical tool „Secure VLAN“
- Czech eyeballs can connect to local content
  - home banking, media, email, ...
- „Island“ mode as a last resort
- faster than regulations
- High joining conditions



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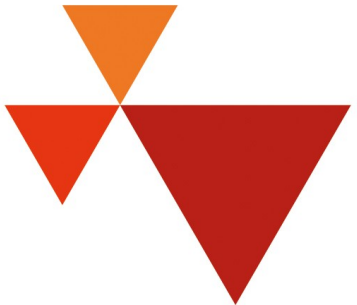
Conditions of FENIX

- End user terms and conditions (spam, attack, ...)
- 24x7 NOC with no IVR
- CSIRT team listed by Trusted Introducer
- Active participation
- Recommendation from 2 members, no veto



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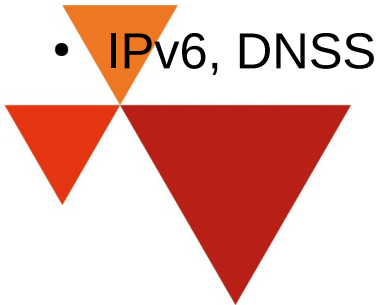
Conditions of FENIX

- BCP-38/SAC004 to prevent IP spoofing
- RTBH filtering using route servers
- Full redundancy on NIX.CZ
- Network monitoring
- Control plane policy (RFC6192)
- Amplification attack mitigation (DNS, NTP, SNMP, …)
- Response on security incident time < 30 min
- BGP – TCP MD5
- IPv6, DNSSEC



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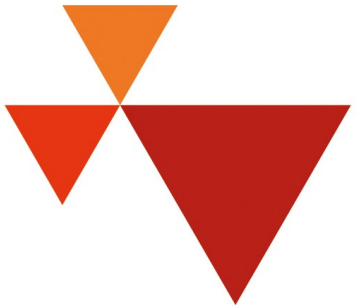
Birth of FENIX

- 6 founding companies – January 2014
- NIX.CZ is supervisor over roles



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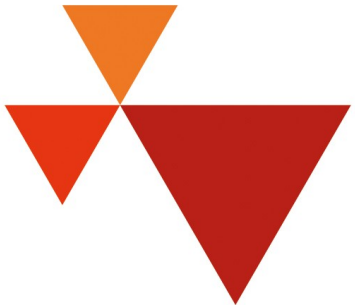
FENIX today



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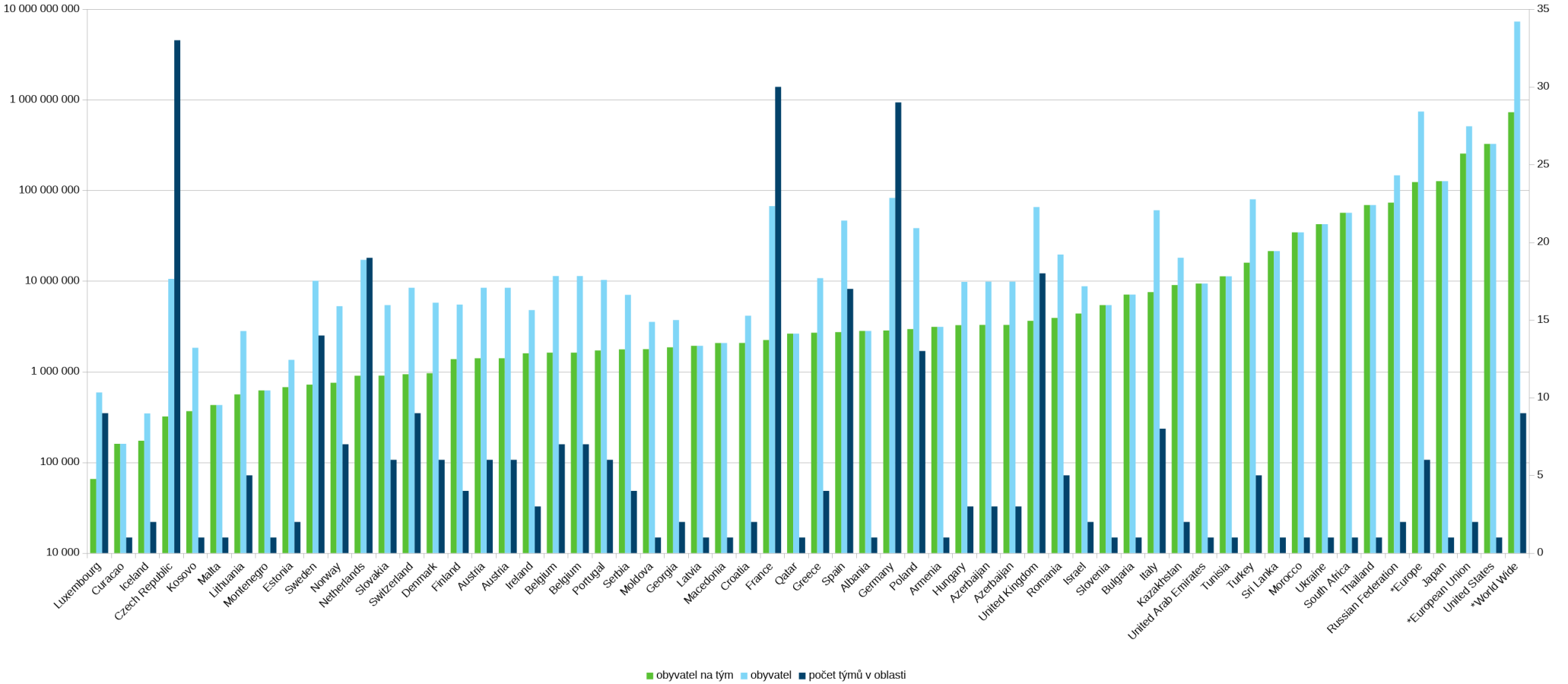
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Russian Federation
*Europe
Japan
*European Union
United States
*World Wide
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počet týmů v oblasti

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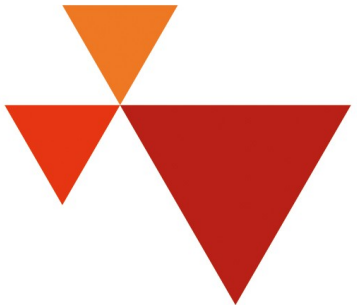
Working on

- Traffic filtration „as-a-service“
- Cooperation with government on cyber-related laws



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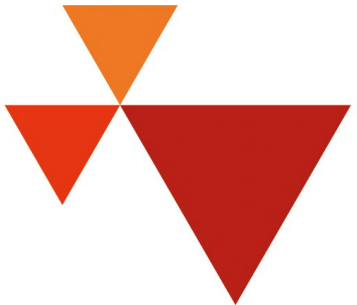
Q&A



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