



# Story about NIX.CZ

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Budva, Montenegro 1.10.2014



NIX.CZ

# Neutral Internet eXchange.Czech republic

- Based in Prague, Czech republic
- Non-profit association
- Member governed



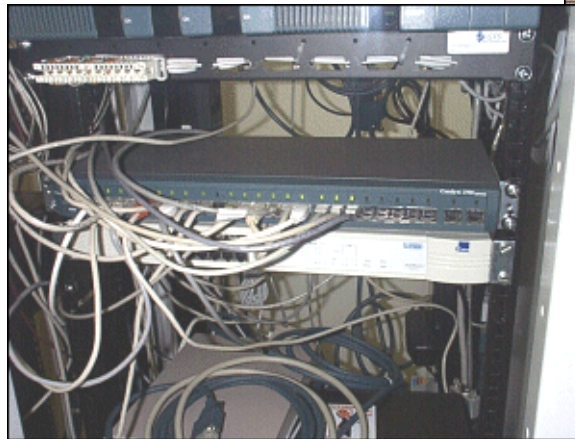
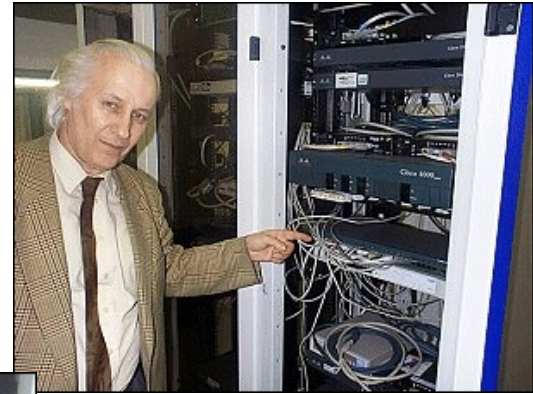
# History of NIX.CZ

- First discussion at RIPE in 1995
- Established in 1996
- 1<sup>st</sup> PoP at Prague TV tower



# History of NIX.CZ

- Start in February 1997
- 10 BASE Ethernet



# Milestones of NIX.CZ

- Established CZ.NIC 1998 (.cz TLD registry)
- 2<sup>nd</sup> PoP in 2000
- 1<sup>st</sup> employee in 2002
- 2 new PoPs in 2003
- Joining Euro-IX in 2003
- Thorough testing of C6509E

# Milestones of NIX.CZ

- Dual star infrastructure in 2010
- 5<sup>th</sup> PoP (after long 8 years)
- CEE Peering Day (with VIX.at)
- Project FENIX aka Secure VLAN

# Project FENIX



- Reaction to DOS attacks in 3/2013  
4 days
- Multiple CZ targets  
media, banks, cell phone operators, Seznam.cz
- Source of attacks out of CZ
- Nothing from CZ
- Through upstream and NIX.CZ
- No response source

# Project FENIX



- Club of “trustworthy” companies
- Technical tool “Secure VLAN”
- Czech eyeballs can connect to local content  
home banking, media, email ...
- Island mode  
last resort
- Faster than regulations
- High joining criteria



# Project FENIX organization rules



- End user terms and conditions  
spam, attacks
- 24x7 technical conditions  
no IVR
- CSIRT team  
listed by Trusted Introducer, Terena
- Active participation
- Recommendation from 2 members, no veto

# Project FENIX technical rules



- BCP-38 – IP spoofing
- Full redundant connection
- IPv6
- DNSsec
- Be ready for RTBH
- etc

# Project FENIX beginnings



- 6 founding companies – January 2014
  - Active 24
  - CESNET (NREN)
  - CZ.NIC
  - Dial Telecom
  - Seznam.cz
  - O2 Czech Republic (incumbent operator)
- NIX.CZ supervisor of rules

# Project FENIX

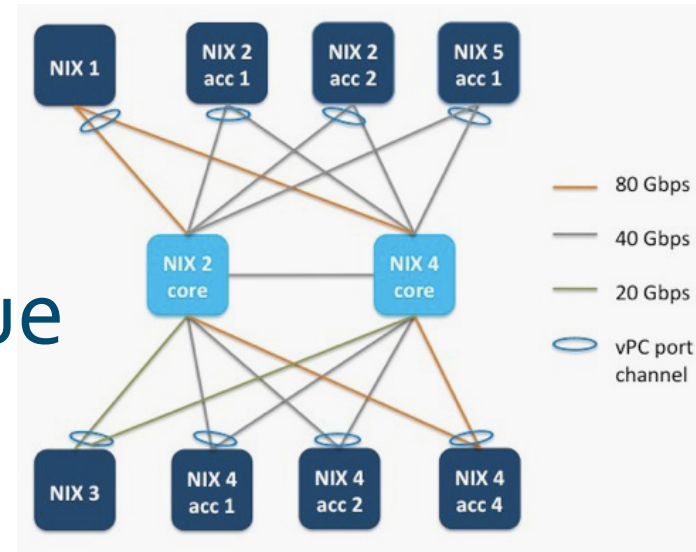
## current status



- First founders meeting
- Update of rules
- Secure way of sharing information - confidentiality
- Administrative matters
  - Voting mechanism, how to join new members, etc.
- 2 new members in September 2014!
- 3 in progress
- <http://fenix.zone>

# NIX.CZ today

- Open organization
- Neutral platform
- 5 data centers in Prague
- 120 networks
- 41 international
- Daily peak passing 300 Gbps
- Own first duct line between PoP



# Peering Day 2015

- March 18.-19. 2015
- Bratislava, Slovakia
- In cooperation with VIX.at
- Special thanks to RIPE NCC
- **Registration is open**
- [www.peeringday.eu](http://www.peeringday.eu)



# Follow us



.. and at [www.nix.cz](http://www.nix.cz) 😊