



Secure VLAN

Martin Semrad

ENOG 7
Moscow, 26. 5. 2014



NIX.CZ

NIX.CZ introduction

- Neutral platform
- 5 data centers in Prague
- 119 connected networks
- 41 international networks
- 286,5 Gbps peak data flow
- Patronage of Secure VLAN project

Secure VLAN

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

Secure VLAN

- 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

Secure VLAN 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

Secure VLAN technical rules

- BCP-38/SAC004 – granularity /24 (/48)
- RTBH filtering using RS
- IPv6, DNSSEC
- Full redundancy on NIX.CZ
- Network monitoring (MRTG, NetFlow, ...)
- Control plane policy RFC6192
- DNS, NTP, SNMP amplification protection
- Security incident time <30min
- BGP – TCP MD5

Secure VLAN start

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

Secure VLAN

current status

- First founders meeting
- Update of rules
- Secure way of sharing information - confidentiality
- Administrative matters
Voting mechanism, how to join new members, etc.
- Basic brand structure

Secure VLAN
only a technical tool
not brand name



FENIX

propojujeme důvěryhodné sítě



Připojen
k důvěryhodné síti

Follow us



.. and at www.nix.cz 😊