

Shared resources at .cz

CZ.NIC z. s. p. o.

Ondrej Filip / ondrej.filip@nic.cz

Oct 24, 2009 – ICANN / Seoul

Agenda

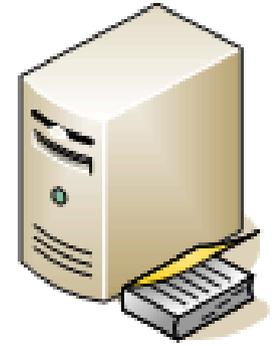
- Three areas
 - Registration system
 - Registry operations
 - R&D outputs



Registration system

- EPP registry (registry->registrar->registrant)
- Developed by CZ.NIC – multiple domains and ENUM domains
- GNU GPL – no restrictions
- Non commercial support – training, mailing list
- Currently used by .cz, .ao, .tz; .cr, .al. – some others testing
- Feedback and bugreports
- <http://fred.nic.cz>

Registry operations – DNS



- Support for smaller registries – DNS hosting (on CZ.NIC's HW – no cost)
 - .tz, .ao, .me (before transferred to Afilias), others welcome!
- Server exchange with larger registries – for example .cz, .cl DNS server exchange (each party administers its own HW)
 - Very good and cheap way deploying anycast copies in distant locations

R&D

- Larger registries – strong R&D department
- Outputs under free licenses (usually GPL)
- Products related to DNS (DNSSEC) or just for “Good of Internet“
- <http://labs.nic.cz>
- Introduction of 3 projects



DNS Firefox plugin

- End users has no information about DNSSEC
- Is my resolver supporting DNSSEC?
- Is the domain signed?
- Plugin for browser (Firefox)
- Similar icon to 'https'
- Green key – everything OK
- Red key – some problem (not validating etc.)
- No key – not signed
- <http://labs.nic.cz/> - ALPHA VERSION

DNS Firefox plugin – live demo



DNSSEC tester

- Testing DNSSEC usability at the End User side
- Many DSL/home routers have problems with DNS and especially DNSSEC
- Central database
- Application – Linux, MAC, Windows
- Reports DNS/DNSSEC compatibility to a central database
- Can be shared – different branding/languages
- <http://www.dnssec-tester.cz> - ALPHA VERSION

DNSSEC tester – live demo



Firefox®



BIRD Internet Routing Daemon

- Routing daemon – supporting BGP, OSPF, RIP – IPv6 and IPv4
- More general tools
- Used by CZ.NIC for routing of anycast DNS
- Used as route server by IXP (NIX.CZ, LoNAP)
- Lightweight, efficient
- Increase of robustness (more BGP implementation)
- <http://bird.network.cz>



¿Questions?

<ondrej.filip@nic.cz>