Operators Tools

RIPE Labs

..illuminating new ideas and tools **from** the community **for** the community

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A Bit of History

- RIPE NCC started as Coordination Center for the RIPE community
  - RIPE Database, mailing lists, meetings
- Only later it became an RIR
  - Once it was accepted as a neutral place
  - Providing platform for operators to coordinate their activities

RIPE Labs – back to the Roots

What is RIPE Labs?

- It is a web site, but more importantly:
  - A platform and a tool for the community
- You can
  - Test and evaluate new tools and prototypes
  - Contribute new ideas and research results
  - Discover and discuss in forums and blogs

http://labs.ripe.net

Currently on RIPE Labs

INRDB

IP Allocation Movies

Resource Explainer (REX)

IPv4 and IPv6 Measurements

NetSense

DNS Related Tools

INRDB

- The Internet Number Resource Database
- A system to store and retrieve large amounts of Internet Number Resource related data
  - Routing Information Services (RIS) table dumps, IANA and RIR allocation and assignment data, other external datasets
- Helps accomplish RIPE NCC to serve the community by enabling efficient access across heterogeneous historical data
- Allows us to provide you new types of services

http://labs.ripe.net/content/intro-inrdb-internet-number-resource-database

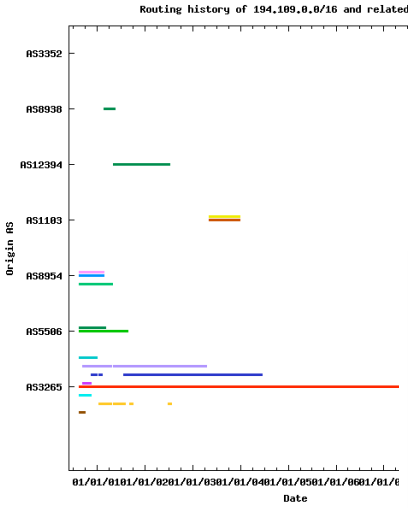
Resource Explainer

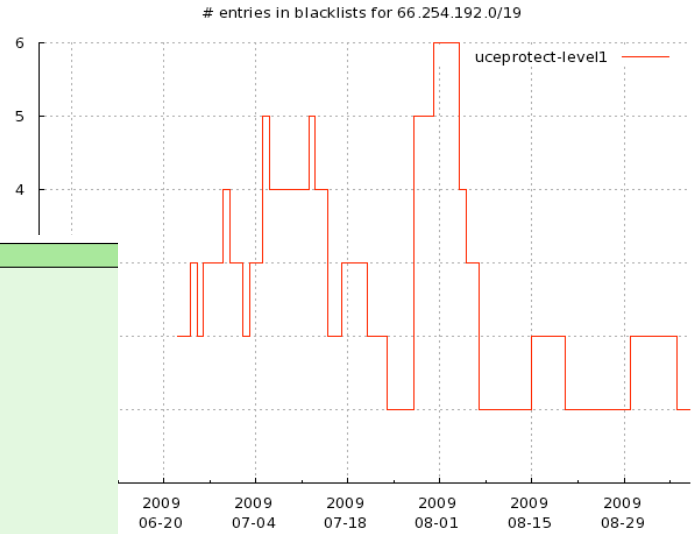
- Based on growing community needs, a service where:
  - History and current **status of resources** can be looked up
  - Information from many sources are **combined** and **explained**

- Some reasons are
  - Growing use of recycled / transferred resources
  - Proliferation of resource abuse
  - Support resource management activities

http://labs.ripe.net/content/rex-resource-explainer

Resource Explainer live!





Most recent information as of 2009-10-02

Reverse DNS delegations as seen in RIPE Database domain objects

Methodology

No domain objects found in the RIPE Database

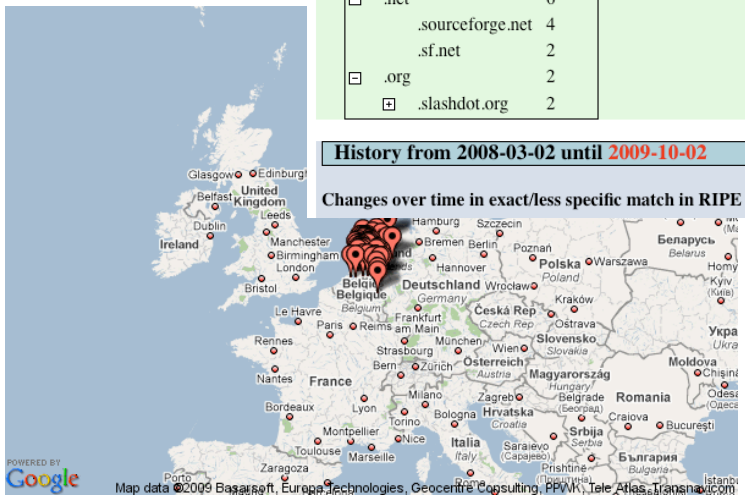
Domains seen in reverse DNS lookups in the month before 2009-09-30

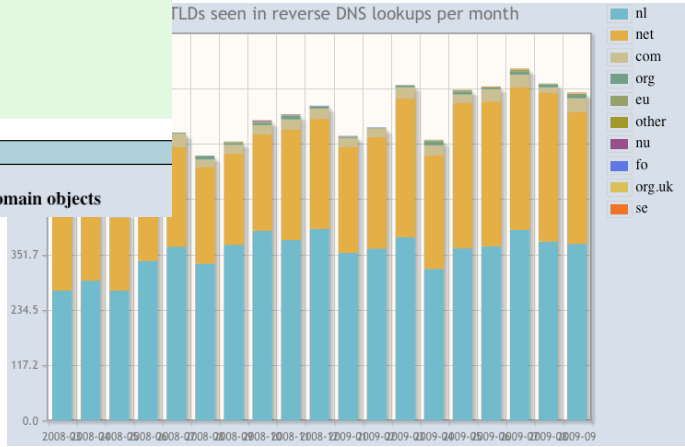
Methodology

Domain	Count
.com	8
.sourceforge.com	4
.thinkgeek.com	3
.net	6
.sourceforge.net	4
.sf.net	2
.org	2
.slashdot.org	2

History from 2008-03-02 until 2009-10-02

Changes over time in exact/less specific match in RIPE Database domain objects





Resource Explainer Plans

- Recently included IPv6 support and ASNs

Future Plans:

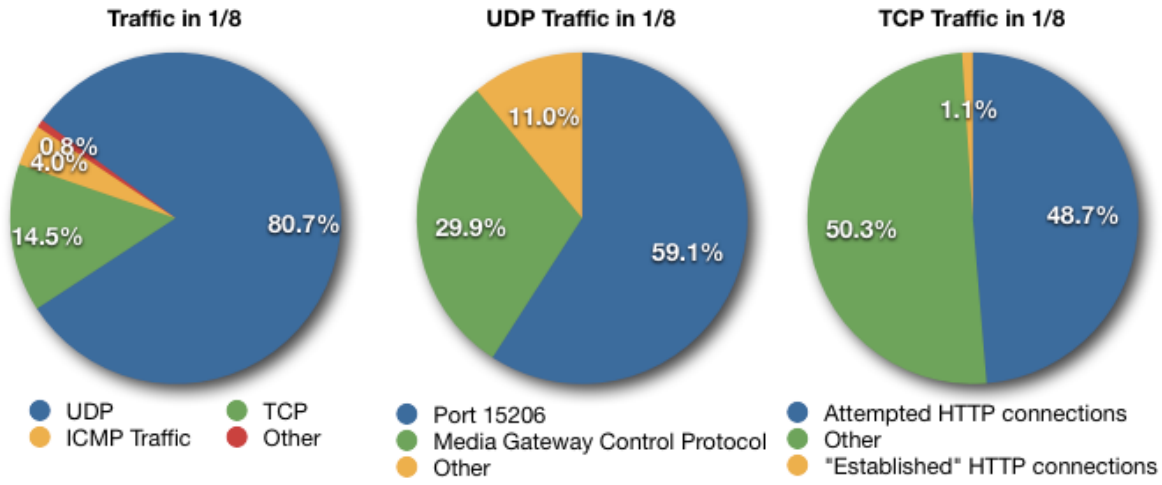
- Add more aspects and more details to existing ones
- Please let us know what else would be useful!

NetSense (netsense.ripe.net)

- Consistent interface integrating various measurement services provided by the RIPE NCC

Pollution in 1/8

- 1/8 allocated to APNIC
- Lots of discussion about usability of 1/8
- How much of it us already routed?
- Lots of interest in the results



http://labs.ripe.net/content/pollution-18

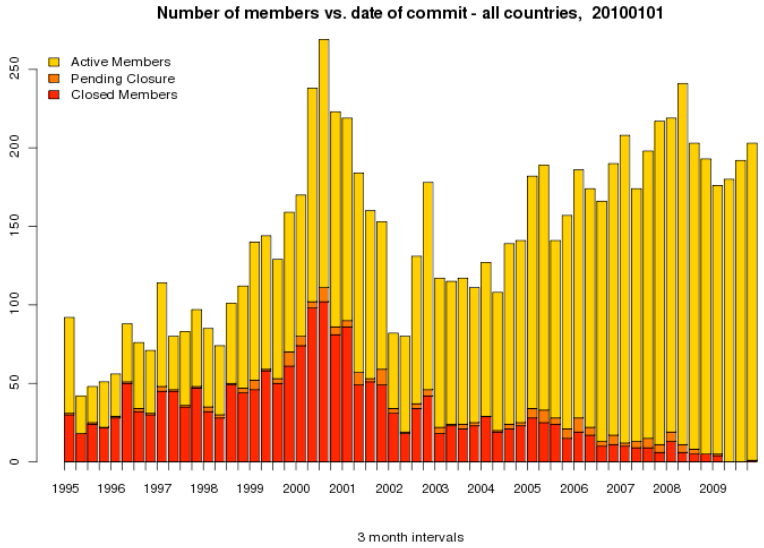
IPv6 Measurements

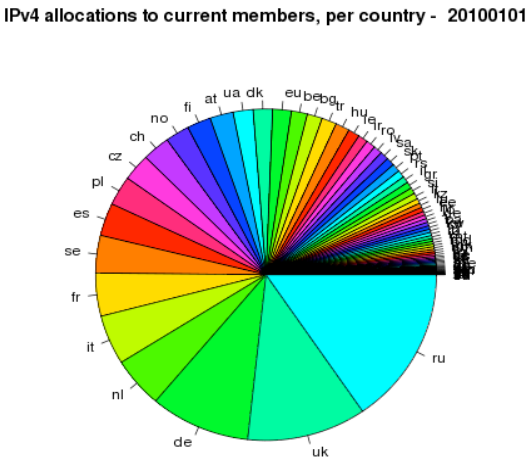
- A compilation of IPv6 measurements
  - List of IPv6 measurements and tools from various sources with a short description and links to the tools and results
  - Please let us know what type of measurements would be helpful for your operations

http://labs.ripe.net/content/ipv6-measurement-compilation

LIR Growth Statistics

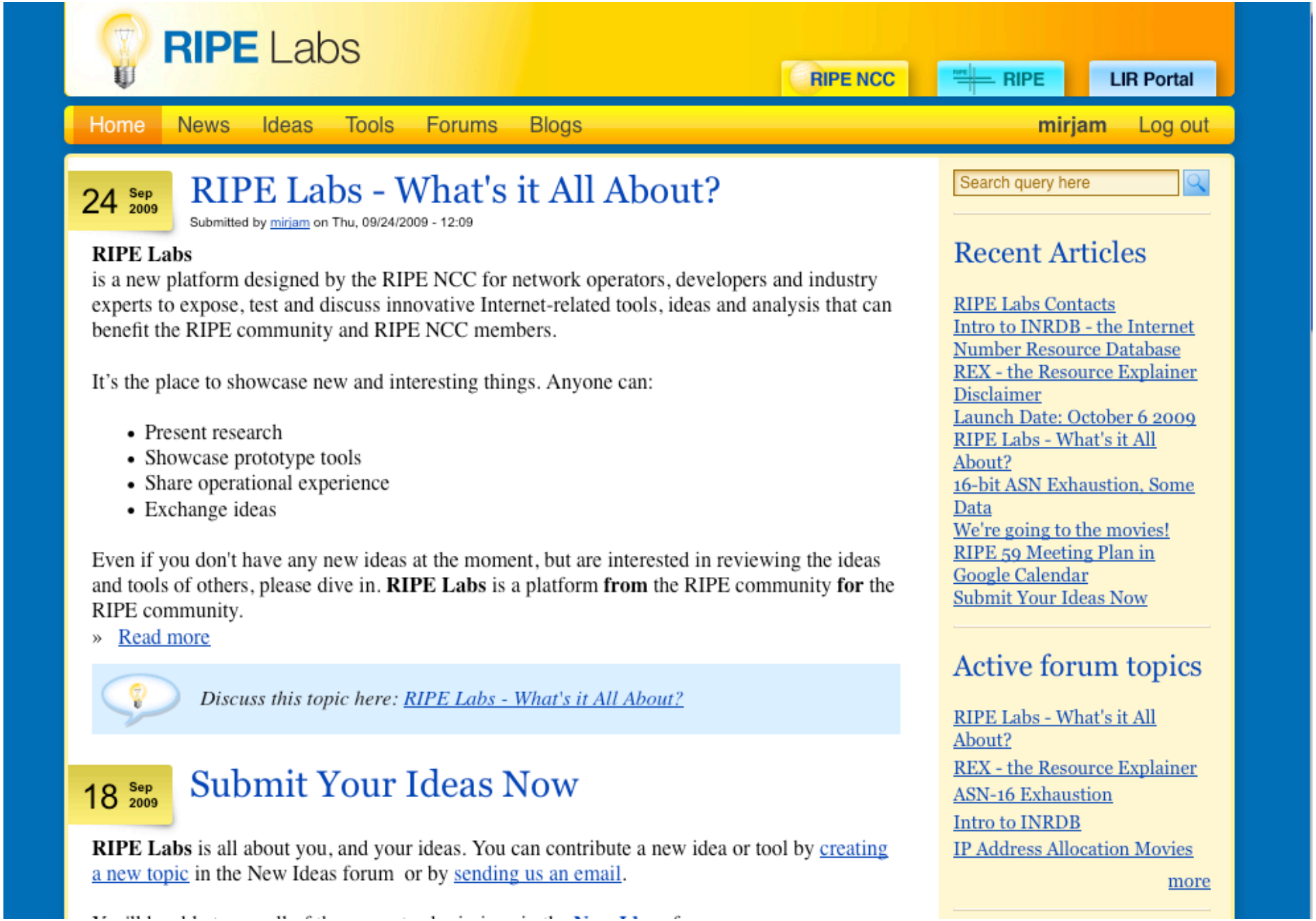
- RIPE NCC membership demographics
  - http://labs.ripe.net/content/ripe-ncc-membership-growth
- Internet number resources are distributed among the membership
  - http://labs.ripe.net/content/members-and-their-number-resources





DNS related Tools

- DNS Lameness checker (Shane Kerr)
  - Downloadable tool for DNS operators
- DNSSEC for the root zone
  - Plans for signing K-root
- DNS reply-size tester
  - Easy tool to determine maximum size of DNS response packets your resolver can handle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Submitted by mirjam on Thu, 09/24/2009 - 12:09
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is a new platform designed by the RIPE NCC for network operators, developers and industry experts to expose, test and discuss innovative Internet-related tools, ideas and analysis that can benefit the RIPE community and RIPE NCC members.
It's the place to showcase new and interesting things. Anyone can:
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Showcase prototype tools
Share operational experience
Exchange ideas
Even if you don't have any new ideas at the moment, but are interested in reviewing the ideas and tools of others, please dive in. RIPE Labs is a platform from the RIPE community for the RIPE community.
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Why RIPE Labs?

- Faster, tighter innovation cycle
  - Provide useful prototypes to you earlier
  - Adapt to the changing environment more quickly
- Closer involvement of the community
  - Openness
  - Make feedback and suggestions easier and more effective

RIPE Labs Rules

- Free and civil discussion between individuals
  - Anyone can read RIPE Labs content
  - Please register before contributing
- No service guarantees
  - Content can disappear based on
    - Community feedback
    - Legal or abuse issues
    - Too little resources

Questions or Comments

- Please take a look and participate
- Questions or comments
  - mir@ripe.net or labs@ripe.net