Database Update

Denis Walker
Business Analyst
and
Edward Shryane
Senior Software Engineer
RIPE Database statistics

- 2,700 unit tests
- 2,900 end-to-end and integration tests
- Operational stats:
  - about 206 queries per second
Action Point 67.1 issue tracking

- Issues now tracked on GitHub
  - https://github.com/RIPE-NCC/whois/issues
- New issues can be raised by users
- Code base also on GitHub
  - https://github.com/RIPE-NCC/whois/
- Users are continuing to contribute to the code
- If you have an idea, we can help you technically
Action Point 67.2 Release Management

- Releases made to **Release Candidate (RC) Test Environment** for at least 2 weeks
- Users can test against this with live copy of data
- For major changes will also release draft documentation with RC deployment
- Then deploy to production (close down RC)
- Is this working for you? How can we improve?
- RC is a very lonely database…it’s missing you
Since RIPE 67

- Continued working on RDAP, the Registration Data Access Protocol – more later
- Added “via” attributes in aut-num
- Member resources are covered by “abuse-c:”
- Provided wizard for adding “abuse-c:” to PI objects
- Currently 33% of IPv4 and 44% of IPv6 PI objects covered by “abuse-c:”
  - deadline for End Users/LIRs setting it is end Q3 2014
  - after deadline RIPE NCC will set to sponsoring LIR
Since RIPE 67 (2)

- Introduced SSO – Single Sign On for updates
  - When signed in, no passwords required for database operations on your data if your mntner object(s) include “auth: SSO xyz”
  - Currently 979 “auth: SSO” in use in 210 mntner objects
  - More features/services to come built on SSO...
    - authenticated queries
    - certification of PI resources (RPKI)
- Introduced pending route authorisation – 2 step hierarchical auth process
• Continued to improve documentation
  • Manuals linked to software version
  • Draft updates to manuals released with RC
  • Working with Comms on new documentation style
  • Focusing on 2 options – will choose 1 after meeting

• Hot node in Stockholm up and running
  • load balanced with Amsterdam servers
  • accepting queries now

• Cleanup of references to returned ASNs ongoing
Since RIPE 67 (4)

- Added mandatory “status:” to all aut-num objects to clearly identify authoritative source (‘ASSIGNED’, ‘LEGACY’, ‘OTHER’)
- Set all legacy inetnum objects to “status: LEGACY”
  - all top-level (4k) and all more specific objects (35k)
- FAQ with more details
- Added “sponsoring-org:” to End User resources, inetnum, inet6num, aut-num
- Software and converted data available for testing – Release Candidate Environment – check it out!!
Unresolved Features

- Deprecate “referral-by:” attribute
- New flag to request personal data
  - Reverse logic to not provide personal data by default
- Only block person objects when limits reached
  - Blocking query behaviour currently blocks all or nothing
- Internationalisation of data in RIPE Database
  - UTF-8 technically possible
  - still no policy on how to handle this data
Unresolved Features (2)

- Replace “changed:” with new auto-generated “created:” and “last-updated:” attributes
  - 7.4M objects, 8.6M “changed:”, 105K unique emails
  - 27.4% of “changed:” dates do not correctly document created or last updated dates
  - Real values available for most object types with history query ‘–list-versions’

- Improved dummification algorithm removing slightly less data and standardised wherever personal data is removed
Upcoming Features

- Improved user experience (requested from member survey 2013)
- Review of all error messages (do you parse them?)
- History query to show deleted data (no personal)
- **Role** object no longer considered personal data
- Convert **irt** object to **role** object
- Change syntax of “role:” to match “organisation:”
- Allow change of “person:” and “role:” names
Upcoming Features (2)

• Authenticated queries
  • If we know who you are and which organisation you are with, we can do more for you
• Creating personal views of your data
  • allow you to look at your own data in ways that are meaningful to you, but views restricted to you and your organisation
• Unlimited access to your personal data
  • no rate limiting, no limits, no blocking
Upcoming Features (3)

- Integrate RIPE Database better with other RIPE NCC services
  - Log in once and use all services
  - We know who you are, which organisation you are with, what is registered to you, what your permissions and preferences are
  - Seamlessly carry out your business with any of these functions - look, request, create, change, delete/cancel, download, sync with your data
  - No longer think in terms of separated services with own passwords – LIR Portal, RIPE Database, RIPEstat, DNS checks, IP analysers, various wizards
Upcoming Features (4)

- Full re-implementation of auto cleanup including clusters – person, role, organisation, mntner
- Deprecating object editors in LIR Portal by use of business rules to lock down fixed object parts
- Server side `as-set` expansion
  - single API call, replaces large number of queries