

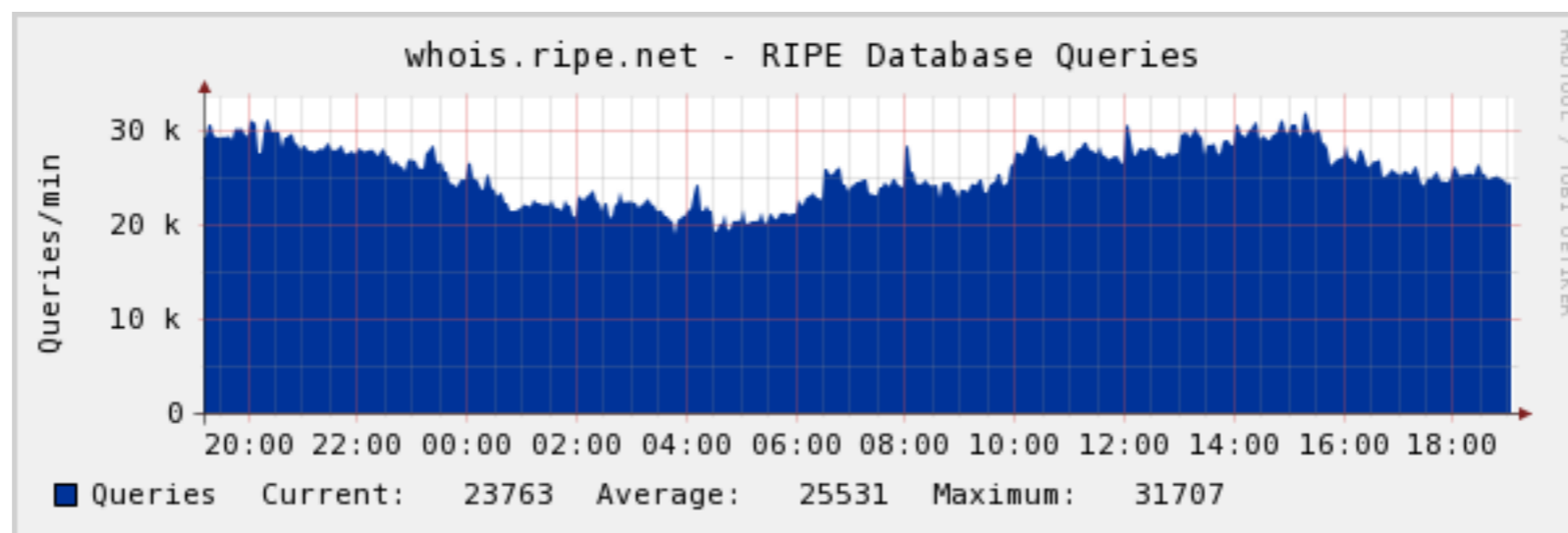
Database Update

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RIPE Database statistics

- 2,500 unit and integration tests
- 1,500 end-to-end tests
- Operational stats:
 - <https://www.ripe.net/data-tools/stats/ripe-database>
 - about 430 queries per second



Release Management

- Users need to be aware of changes
- Testing period before major production release
- Bug and issue details tracked
- Additional test set up with real data snapshot
- Major release – feature development, test period
- Minor release – bug fix only, immediate deploy
- Improve communication for any release

Open Source

- Open source for many years
- Long term collaboration with APNIC
- New code base now on GitHub
 - <https://github.com/RIPE-NCC/whois/>
- Users are contributing to the code
- If you have an idea, we can help you technically
- Run local instance

Action Points

- [AP66.1] RIPE NCC to return to the community for clarification of [dummification] design goals.
 - More later in presentation
- [AP66.2] RIPE NCC Raise this proposal [AS authentication] on the DB-WG mailing list for discussion
 - Clarification on using RIPE Database as Internet Routing Registry published to RIPE Labs and announced WG list

Action Points

- [AP66.3] RIPE NCC Raise [SSO] this proposal on the DB-WG mailing list for discussion
 - Ongoing
 - More on this later in the presentation
- [AP66.5] RIPE NCC to check that all systems are UTF8 ready
 - Technically feasible without much difficulty
 - More on this later in the session

Since RIPE 66

- Working implementation of RDAP, the Registration Data Access Protocol
 - Developed in cooperation with APNIC
 - Demonstrated at the IETF meeting in Berlin
 - Beta available
 - <http://rdap.db.ripe.net/ip/193.0.0.1>
 - Ongoing, expect updates

Since RIPE 66 (2)

- Metadata tags can now be added to objects (eg RIPE-REGISTRY-RESOURCE)
 - Can be shown in queries and filter output on tags
- Mirror other 4 RIR DBs operational data based on their delegated stats
 - All resources with no overlaps
 - --resource finds any resources from set of RIR DBs

Since RIPE 66 (3)

- Include ‘dry-run:’ in an update with single object
 - All checks done, no actual update performed
 - Could be improved to include multiple objects?
- Added “--diff-versions” to history query
- By default all notification messages for object changes show a diff output and full new object

Since RIPE 66 (4)

- “--valid-syntax” filters out of query output objects that would fail current syntax checks
- RESTful API integrated into whois code and is production quality
- Standardised and cleaned up representation of IPv6 addresses in RIPE Database
- Query & Update manuals major review

Unresolved Features

- Data dummification proposal
 - Design goals published
 - <https://labs.ripe.net/Members/kranjbar/proposed-improvements-to-dummification-of-personal-data-in-the-ripe-database>
 - Some comments but no real objections
 - Implementation in one of the upcoming major releases

Unresolved Features (2)

- Proposal made at last RIPE Meeting to replace static objects (0/0, /8's, as-blocks,...)
 - Instead we return information from delegated stats
 - More accurate data reflecting future transfers
 - RIPE NCC will put forward detailed implementation plan

Unresolved Features (3)

- Flag to request personal data
 - Proposal made last year not to provide personal data by default
 - Some objections to idea of changing defaults
 - Not enough input on changing the logic
- Blocking query behaviour currently blocks all or nothing
 - Propose to only block personal data objects when limits reached

Upcoming Features

- Pending route authorisation
 - Simplify the complex authorisation for route creation
 - One user submits route object with some auth
 - Second user submits same object with missing auth tokens
 - When both objects received, RIPE Database software creates object if combined auth tokens all pass
 - Available on TEST soon after RIPE 67

Upcoming Features (2)

- “via” attributes in aut-num
 - Proposed and implemented by Job Snijders
 - Draft RFC but already supported by other users
- Any change to aut-num needs good communication
- Available in TEST Database after RIPE 67

Upcoming Features (3)

- Simplified UI for adding abuse-c
 - Log into LIR Portal
 - Provide email address
 - DONE
 - Extended deadline for members

Upcoming Features (4)

- Single Sign On (SSO)
 - Implement SSO authorisation for database updates
 - New auth method in mntner object
 - While logged in, changes to your data where mntner has your SSO ID is pre-authorized

Upcoming Features (5)

- Documentation difficult to maintain, read, find what you want
 - Technical information wrapped in descriptive text
 - Only way to find anything is to search
 - Style and content need a rethink
 - Link to software version is missing
- DB team will work with Comms team to find a better way to present information that is clear and easy to use

RIPE NCC Survey 2013

- Valuable feedback from the 3000+ respondents
 - Overall the RIPE Database scored highly
- Some newcomers find RIPE Database difficult to understand and update
- Asked to allow for bulk updates and/or the ability to synchronise from your own servers

User Experience Improvements

- Know the users
- How do people try and find out about the RIPE Database?
- How can we work more effectively with the community?
- Desired outcome: an improved website, better UIs, simplified and intuitive database software.

Resiliency

- Hot node in Stockholm in case of major incident in Amsterdam area
 - Always active
 - Could improve further with distributed backend

Questions?

