

# Database Update

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Kaveh Ranjbar

Database Department Manager, RIPE NCC

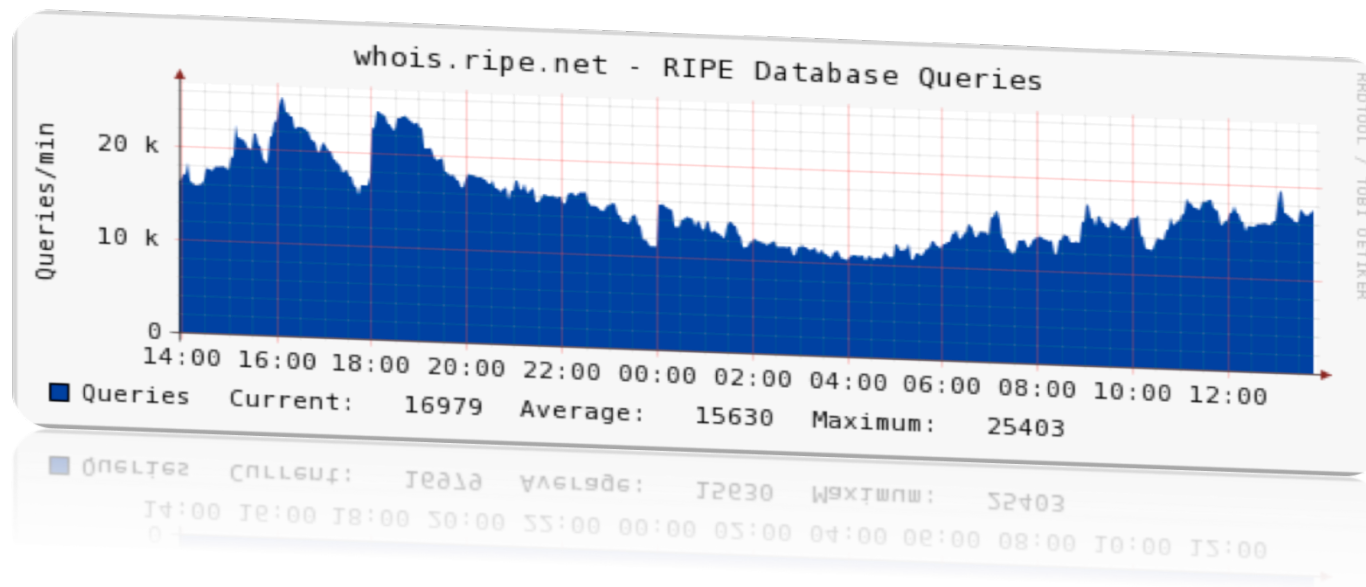


# RIPE Database Statistics

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- Operational stats:

<http://www.ripe.net/info/stats/db/ripedb.html>



# Action Points

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Denis Walker

Database Business Analyst, RIPE NCC



# Action Points Open List

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Four action points from RIPE 63

All completed

# AP57.2: Cleanup Forward Domain Data

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- All DOMAIN objects from the 43 TLD operators have been deleted
- Proposal to deprecate redundant attributes from DOMAIN objects sent to DNS and Database Working Group mailing lists
- “refer:”, “sub-dom:”, “dom-net:”, “mnt-lower:”
- Also suggest adjusting syntax of DOMAIN object to more tightly fit reverse delegations and ENUM

# AP63.1: Investigation on UTF-8

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- Review published on RIPE Labs:  
<https://labs.ripe.net/Members/kranjbar/internationalisation-of-ripe-database>
- Technically the database accepts and returns UTF-8, but it is NOT tried or tested
- No policy exists defining how this should be used

## AP63.2: Geolocation

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- As announced on the mailing list, it is available as an optional attribute on INET(6)NUM and ORGANISATION objects
- Current data input format is generic, but easy to change with no data loss
- Further discussion needed on how to move forward

## AP63.4: Hiding MD5 Hashes from MNTNERS

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- Request came in as a follow-up to RIPE 63 session
- We implemented a mid-term solution, hiding all “auth:” lines in query results and making maintainer updates available through a web interface
- It was proposed that we show the “auth:” attributes if the object is only protected by PGP



## AP63.4: (cont.) Updating passwords

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- Following hiding of MD5 hashes mass mailed all maintainers of 'user' data suggesting password change
- 32,000 emails sent
- 8,000 bounced
- 38,000 passwords in MNTNER objects
- 875 have been changed since mails sent
- (This has no impact on the RIPE NCC's maintenance of Registry data in the RIPE Database)

## AP63.4: (cont.) Email Update Security

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- Asked community about possible solutions, little response yet:
  - Making email updates applicable only to objects protected by PGP and emails signed with proper PGP keys
  - Dropping email updates completely
  - Any other idea?

# Projects

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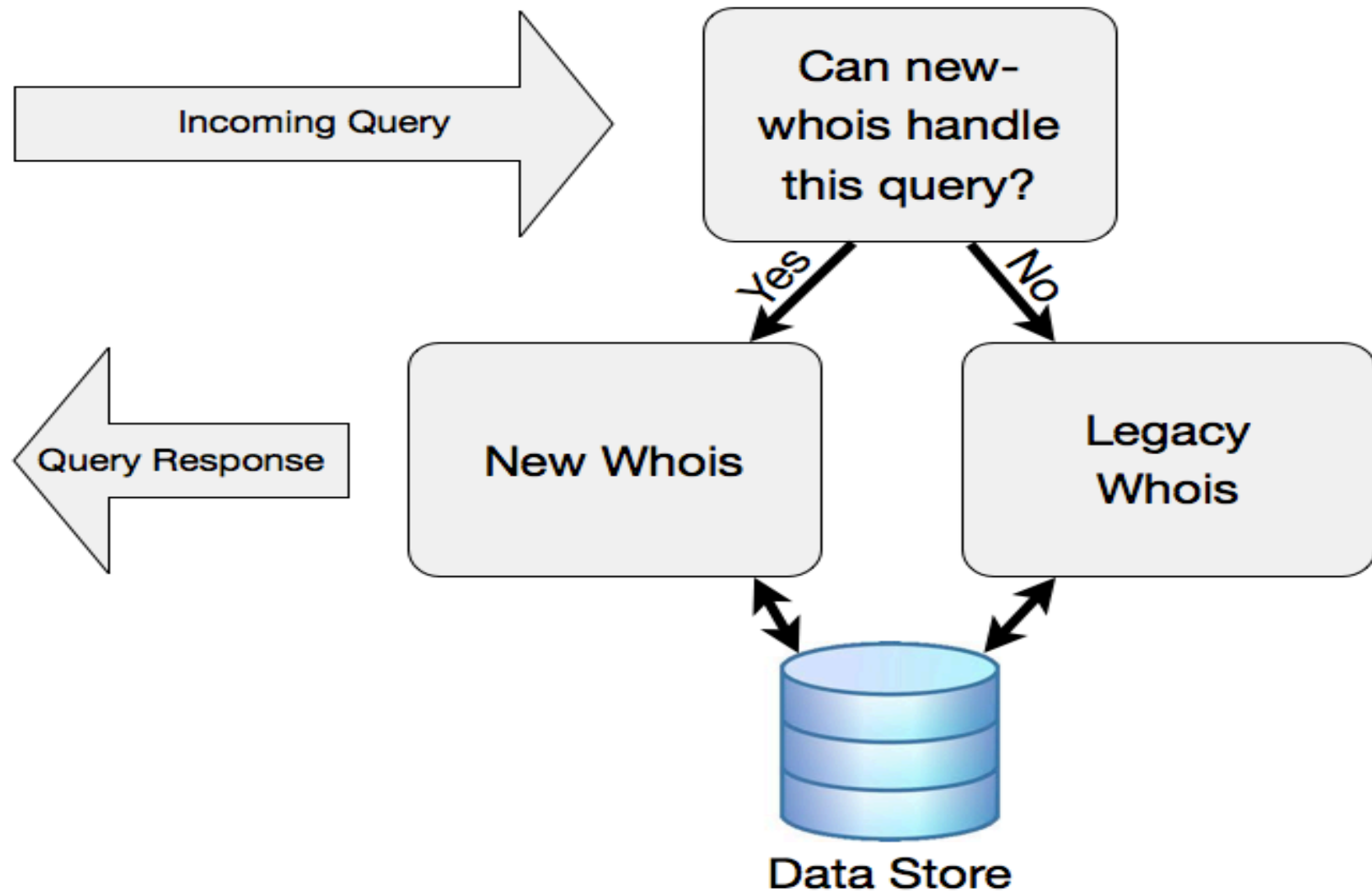


# Ongoing – Redevelopment of Whois

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- Our main focus is on redeveloping new whois backend software
- We have started reimplementing the whois system from scratch
- New code is already in production, completely backward compatible
- We use continuous integration, so new versions are deployed to production very often, we have one new release at least every two weeks

# Redevelopment Internals



# Redevelopment Project

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- Right now 94% of queries are returned using new software
- Access lists are very clean and easy to understand now. Adhere to AUP
- Sane behavior in sorting output, option handling, complex behavior
- Faster, simpler and a lot more flexible
- Plan to provide code to other RIRs, OpenSource

# Redevelopment Plan

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- Finishing queries
  - In a short time we will finish the work on queries and decommission old query software
- Moving to updates
  - Much cleaner code, easy to understand for users
  - Concentrated modules for:
    - Business rules
    - Syntax checking
    - Authentication
    - Proper error handling

# More for 2012

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- Small improvements to UI
  - Integration with RIPEstat
  - Simpler password generation
  - More will be announced throughout the year
- API
  - IETF work in progress to standardise RESTful queries
  - Setting up prototype RESTful redirects between all five RIRs, so a single node gives output for any number resource in a single defined format



# Community Participation

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- Our aim is to remain completely backward compatible
- Questions about new features or improvements to current behaviour are sent to the list
  - As an example, three improvement ideas to Access Control were proposed by us, or questions about email security
  - We received either no response, or discussions completely diverged
- Especially when moving to redevelopment of database updates, we will have lot of questions

Please help us by more active participation

# Community Participation

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Please help us by actively participating

Questions?

