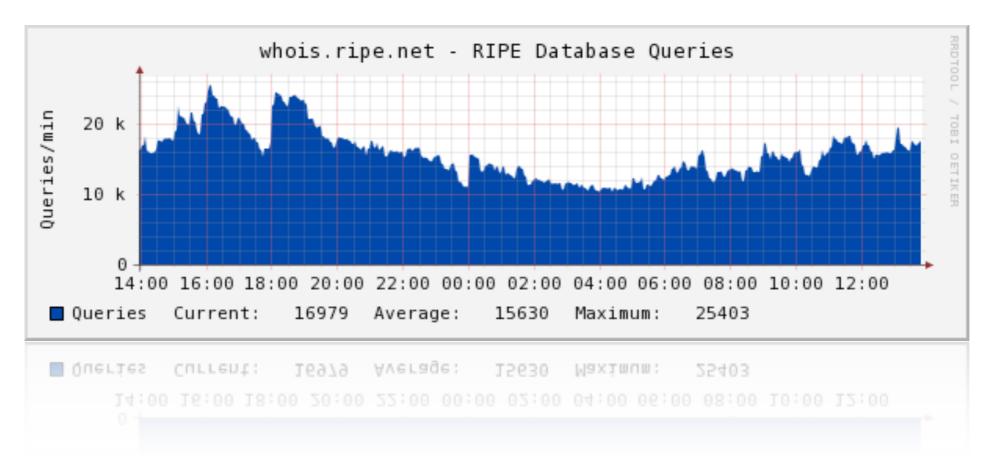# Database Update

Kaveh Ranjbar
Database Department Manager, RIPE NCC

RIPE
NCC

RIPE Database statistics

- Operational stats: http://www.ripe.net/info/stats/db/ripedb.html

Action Points

Denis Walker
Database Business Analyst, RIPE NCC

Action Points Open List

Seven action points from RIPE 62

All completed

AP57.2: Cleanup forward domain data

- Started with forward domain objects in the RIPE Database for 43 ccTLDs

- 41 deleted – TLD object with all sub-domains

AP62.2: Review **domain** attributes

- Review sent to DB & DNS WG lists

    http://www.ripe.net/ripe/mail/archives/db-wg/2011-July/001940.html

- Proposed to drop redundant attributes

AP62.3: TLS query service

- Prototype deployed in June

- openssl s_client -connect whois-tls.db.ripe.net:43

- HTTPS access using the RIPE Database Query API is another option

AP62.4: statistics on password vs PGP

- Reports and discussions on DB WG mailing list

- Bottom line:

➢ 86% of MNTNERs <u>only</u> have MD5 password

➢ 99.15% of IPv4 assigned address space was created using mnt-lower in RIPE allocations containing a password

AP62.5 Dash notation in reverse DOMAIN

- Proposal sent to DB WG mailing list

  http://www.ripe.net/ripe/mail/archives/db-wg/2011-April/001854.html

- This has been implemented

AP 2007-01

- Notification sent to DB WG about adding monitoring MNTNER to independent resources

  http://www.ripe.net/ripe/mail/archives/db-wg/2011-June/001937.html

- This was completed in June

RIPE NCC

AP62.1: Geolocation prototype

- Prototype available, details:

  https://labs.ripe.net/Members/denis/geolocation-prototype-for-ripe-database

- Some discussion on mailing list

- Discussion/presentation later in this session

Projects

Kaveh Ranjbar
Database Department Manager, RIPE NCC

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RIPE
NCC

Improvements in database infrastructure

- Team settled into test driven, iterative java development for all new services, now we can respond to feature implementations with higher efficiency
  - Ticket escalation response time within one working day, normally less than 2 hours
- New applications server cluster which replaces very old webservers, means less downtime and makes hot deployments possible
- All of the old CGIs are replaced with new web-services with improved UI and functionality

Deployed services

- ## Web forms and tools (Quick demo by Denis)

  - All DB Tools are accessible from right hand menu

  - Integration between queries and updates

  - Lot of small improvements, like copy link feature in queries, new Maintainer recovery tool and process and new password generator tool

- ## GRS is deployed in production

- ## RIPE Database REST API: Query + CRUD

Work in Progress

- Redevelopment of core database software
  - Started with queries, a proxy will divide the traffic until queries are complete, then we will go to updates and then the data storage
  - No behavior change is expected, our goal is to keep the new software %100 backward compatible
  - Result will be a modern flexible and scalable database software
- Streamlining database related processes
  - Mostly through more intelligent web based user interfaces
- Strong Registry
  - We will take a phase by phase approach

Geo-Location

- We have received a lot of requests for Geo-Location through Member Survey, Registration Services, Customer Services, Training courses and meetings:

  - In the Survey out of 112 answers to question: "Are there additional fields or further information on Internet number resources that you would like to see in the RIPE Database?" 11 directly referenced Geo-Location

  - It is listed as 4th action area for RIPE NCC to improve and step up to promote

  - Obviously at the moment not rated as an important service

  - After data quality improvements and clarification of sponsoring LIR Data, it is most wanted service in RIPE Database, third in DB and DNS features list

  - In "General NCC Services", participants have outlined Geo-Location as an important service

Geo-Location (Contd.)

- Based on the action point from RIPE 62 and mentioned requirements we developed a Prototype and announced it

- Goal of the prototype is to get interested users involved and evolve the idea to the point that we have a production ready service

- We have received some positive feedback as well as some concerns -mostly raised on the working group mailing list- about the prototype

- Most of the concerns were based on the assumption that the Prototype is the final product

Geo-Location (Contd.)

- In the prototype we have added content language and location <u>optional</u> fields to a copy of the test database

    – We have also provided helper tools like Geo-Location Finder to traverse hierarchy and a map in Webupdates for easy data entry as well as related API methods for automated updates

Questions?