RIPE Database Usability

Tim Bruijnzeels | 11 May 2017 | RIPE 74

What is the Issue again?

- The RIPE Database is (too) complicated for incidental users

- In the past, the interfaces have exposed all the functionality and complexity to users

Make it Easier to Update Things

- If it's hard to update objects, users give up

- Make the barrier to update as low as possible in order to facilitate users and improve data accuracy

Default Maintainer

72%

We Made a Start with Updates

We Took this Further for Reverse DNS

Creating DOMAIN Objects for Reverse DNS

Make sure you set up at least two name servers that are authoritative for the zone.

- Ensure that the servers are at least in different subnets, but preferably in different networks that are geographically distributed.

- The resolvable names of these name servers should be in the NS resource records of the zone.

- The SOA resource record (RR) should have the same content, both serial number and other data, on all the nameservers.

- The SOA should contain a valid 'RNAME' (the contact address).
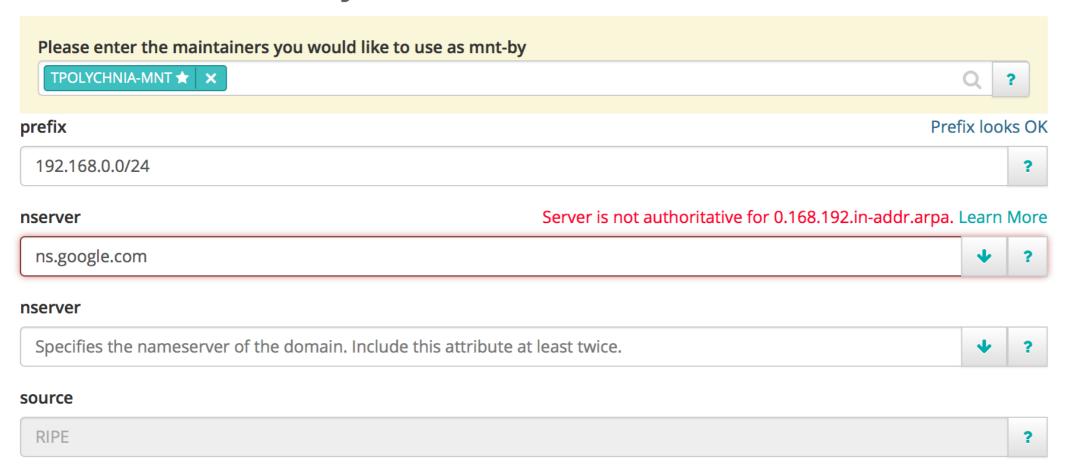
- The timing parameters should be reasonable.

Documentation for Reverse DNS

Continue to domain object creation wizard

We Took this Further for Reverse DNS

We Took this Further for Reverse DNS

Error rate 1/3rd compared to old interface

My Resources

Reseaux IP Europeens Networ... ▼

RIPE Database	«
Webupdates	∨

Query the RIPE Database

Full Text Search

Syncupdates

Create an object

My Resources

My Resources

IPv4　　　IPv6　　　ASN

84.205.64.0/19　　　　　　　　　　　　　　　　　　　›

ASSIGNED PI　　RIPE-NCC-RIS-BEACON

193.0.0.0 - 193.0.23.255　　　　　　　　　　　　　›

ALLOCATED PA　　NL-RIPENCC-OPS-99...

193.30.30.0/23　　　　　　　　　　　　　　　　　　›

ASSIGNED PI　　IPV6-ROADSHOW-NE...

93.175.144.0 - 93.175.158.255　　　　　　　　　　›

ASSIGNED PI　　RIPE-NCC-RIS-BEACON

93.175.159.0/24　　　　　　　　　　　　　　　　　　›

ASSIGNED PI　　NL-RIPENCC-OPS

My Resources

RIPE Database «

Webupdates ˅

Query the RIPE Database

Full Text Search

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Create an object

My Resources

193.0.0.0 - 193.0.23.255

❮ Back to my resources ▾

ALLOCATED PA   NL-RIPENCC-OPS-99...

Total address space	Used	Free
6,144	**5,376**	**768**
	88%	12%

Object in RIPE Database

```
inetnum:        193.0.0.0 - 193.0.23.255
netname:        NL-RIPENCC-OPS-990305
country:        NL
org:            ORG-RIEN1-RIPE
admin-c:        BRD-RIPE
tech-c:         OPS4-RIPE
status:         ALLOCATED PA
remarks:        Amsterdam, Netherlands
mnt-by:         RIPE-NCC-HM-MNT
mnt-by:         RIPE-NCC-MNT
mnt-lower:      RIPE-NCC-MNT
mnt-routes:     RIPE-NCC-MNT
created:        2012-03-09T15:03:38Z
last-modified:  2016-09-12T11:39:00Z
source:         RIPE
```

RIPEstat ⧉   Update object

More specifics

Search for prefix   ✖   Total number 6

Internet number resource	Status	Netname	Used
193.0.0.0/21	ASSIGNED PA	RIPE-NCC	100%
193.0.9.0/24	ASSIGNED PA	RIPE-NCC-AUTHDNS	100%
193.0.10.0/23	ASSIGNED PA	RIPE-NCC	100%
193.0.12.0/23	ASSIGNED PA	RIPE-NCC	100%
193.0.14.0/23	ASSIGNED PA	RIPE-NCC-K-ROOT	100%
193.0.16.0 - 193.0.21.255	ASSIGNED PA	RIPE-NCC	100%

My Resources

- It's in RC now!
  https://rc.db.ripe.net/db-web-ui/#/webupdates/myresources/overview

- Please try it out and let us know

  - We intend, in time, to replace the IP analysers and resource overviews in the LIR Portal with this

- Deployment planned for 22 May, together with whois release 1.89
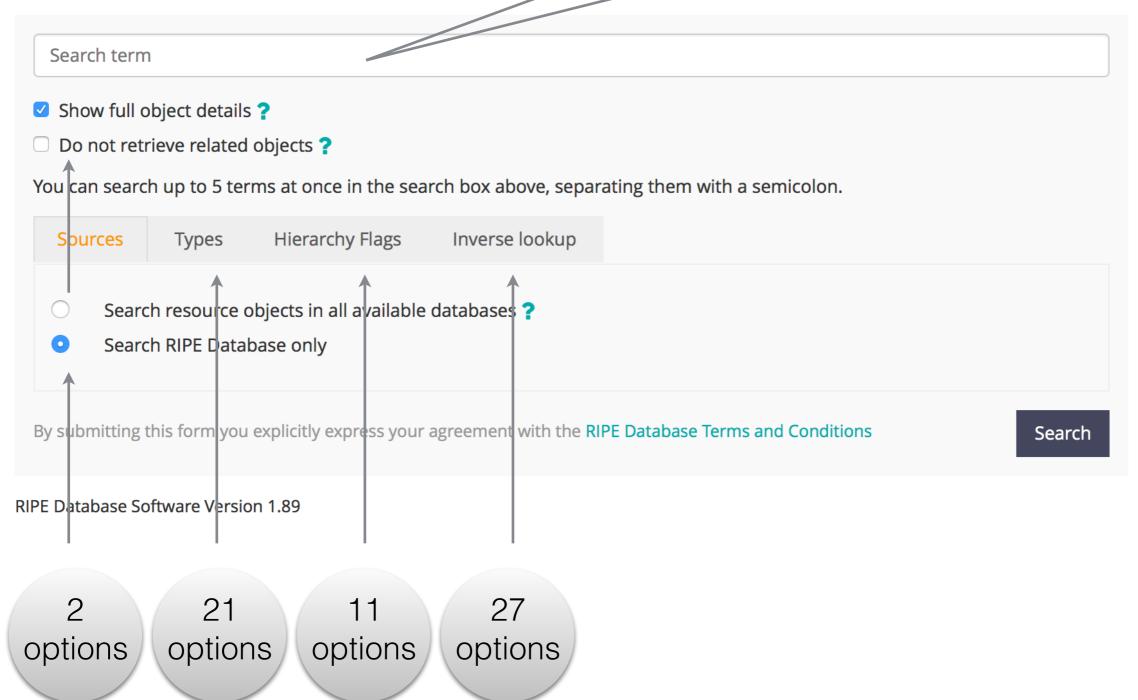
What's Next - Long Term?

- Open up for non-LIR resource holders

- Bulk changes

  - Manage contact or abuse information

  - Manage authorisations: consolidate/delegate maintenance

- Highlight issues

  - rDNS lameness

  - Route objects and BGP - similar to RPKI interface

  - Syntax problems, assignments under assignments

But… first

RIPE Database Query

Peering policy for Level 3

Search term

☑ Show full object details ❓
☐ Do not retrieve related objects ❓

You can search up to 5 terms at once in the search box above, separating them with a semicolon.

| Sources | Types | Hierarchy Flags | Inverse lookup |

○ Search resource objects in all available databases ❓
● Search RIPE Database only

By submitting this form you explicitly express your agreement with the RIPE Database Terms and Conditions

Search

RIPE Database Software Version 1.89

2 options   21 options   11 options   27 options

Make it Easier to Find Things

- Currently analysing usage patterns

- Support the most used cases better

- Support advanced cases for power users

Questions