Core Activities of the RIPE NCC

Overview

- The RIPE Database
- IP Number Assignments
- Routing Registry

The RIPE Database

How to use it

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What is the RIPE Database

- Network Management Database
- Information about
  - IP Address Space
  - DNS Domain
  - IP routing policies
  - Contact information
- RIPE DB Documentation: ripe-153

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Frequently used objects

- `person:` contact information
- `role:` group contact infomation
- `mntner:` authorisation of objects
- `inetnum:` address assignemnts
- `aut-num:` autonomous system numbers
- `route:` announced route
- `domain:` TLD's and other domains

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Person Object

```
person:  Mirjam Kuehne
address: RIPE NCC
address: Kruislaan 409
address: NL-1098 SJ Amsterdam
phone:   +31 20 592 5065
fax-no:  +31 20 592 5090
e-mail:  mir@ripe.net
nic-hdl: MK16-RIPE
changed: mir@ripe.net 950411
source:  RIPE
```

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Role Object

```
role:     RIPE NCC Hostmasters
address:  RIPE NCC
address:  Kruislaan 409
address:  NL-1098 SJ Amsterdam
phone:    +31 20 592 5065
e-mail:   hostmaster@ripe.net
trouble:  business hours: phone XXX
trouble:  other hours: phone YYY
admin-c:  JLC2-RIPE
tech-c:   MK16-RIPE
nic-hdl:  RNH1-RIPE
mnt-by:   RIPE-NCC-HM-MNT
changed:  hostmaster@ripe.net 950411
source:   RIPE
```


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Network Object

```
inetnum:  193.1.2.128 - 193.1.2.255
netname:  RIPE-NCC
descr:    RIPE Network Coordination Center
descr:    Amsterdam, Netherlands
country:  NL
admin-c:  JLC2-RIPE
tech-c:   MK16-RIPE
status:   ASSIGNED PA
mnt-by:   RIPE-NCC-HM-MNT
changed:  mir@ripe.net 950411
source:   RIPE
```


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Authorisation

```
person:   Mirjam Kuehne
address:  RIPE NCC
address:  Kruislaan 409
address:  NL-1098 SJ Amsterdam
phone:    +31 20 592 5065
fax-no:   +31 20 592 5090
e-mail:   mir@ripe.net
nic-hdl:  MK16-RIPE
mnt-by:   RIPE-NCC-HM-MNT
changed:  mir@ripe.net 950411
source:   RIPE
```

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Authorisation

```
mntner:   RIPE-NCC-HM-MNT
descr:    RIPE NCC Hostmaster Maintainer
admin-c:  JLC2-RIPE
tech-c:   MK16-RIPE
upd-to:   ripe-dbm@ripe.net
mnt-nfy:  log-db@ripe.net
auth:     MAIL-FROM .*@ripe.net\.net
mnt-by:   RIPE-NCC-HM-MNT
changed:  mir@ripe.net 950511
changed:  hostmaster@ripe.net 960809
changed:  hostmaster@ripe.net 970617
source:   RIPE
```


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Authentication

- NONE
- MAIL-FROM {e-mail,reg-exp}
- PASSWD encrypted password
- other methods in preparation

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Querying the RIPE DB

- RIPE NCC mirrors Internet key sites
  - RADB
  - MCI
  - ANS
  - APNIC
  - InterNIC
  - APNIC

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Whois

- get whois client
  <ftp://ftp.ripe.net/tools/ripe-whois-tools-2.0.tar.Z>
- many useful flags implemented
- Querying the RIPE database
  – whois -h whois.ripe.net
- Querying the RIPE Test database
  – whois -h test.ripe.net

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Updating the RIPE DB

- e-mail interface to RIPE database
  – auto-dbm@ripe.net
- e-mail interface to RIPE Test database
  – test@ripe.net
- you get automatic acknowledgement
- comments & questions to
  – ripe-dbm@ripe.net

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Deleting an object

- add pseudo attribute to exact copy of object

```
person:  Mirjam Kuehne
address: RIPE NCC
address: Kruislaan 409
address: NL-1098 SJ Amsterdam
phone:   +31 20 592 5065
fax-no:  +31 20 592 5090
e-mail:  mir@ripe.net
nic-hdl: MK16-RIPE
changed: mir@ripe.net 950411
source:  RIPE
delete:  ncc@ripe.net left NCC :-(
```

Nic-hdl's

- only way to clear ambiguity in person objects
- format: <initials>#-<regional-registry>
  - MK16-RIPE, DRC1-APNIC
- How to obtain a nic-hdl
  - nic-hdl: AUTO-1
  - nic-hdl: AUTO-23[INITIALS]

Questions?