Some interesting tools for operators from the RIPE NCC

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RIPE NCC

- **RIPEstat** – status and statistics about Internet Number Resources (and more)
  - https://stat.ripe.net/
- **RIPE Atlas** – a community centered measurement network
  - https://atlas.ripe.net/

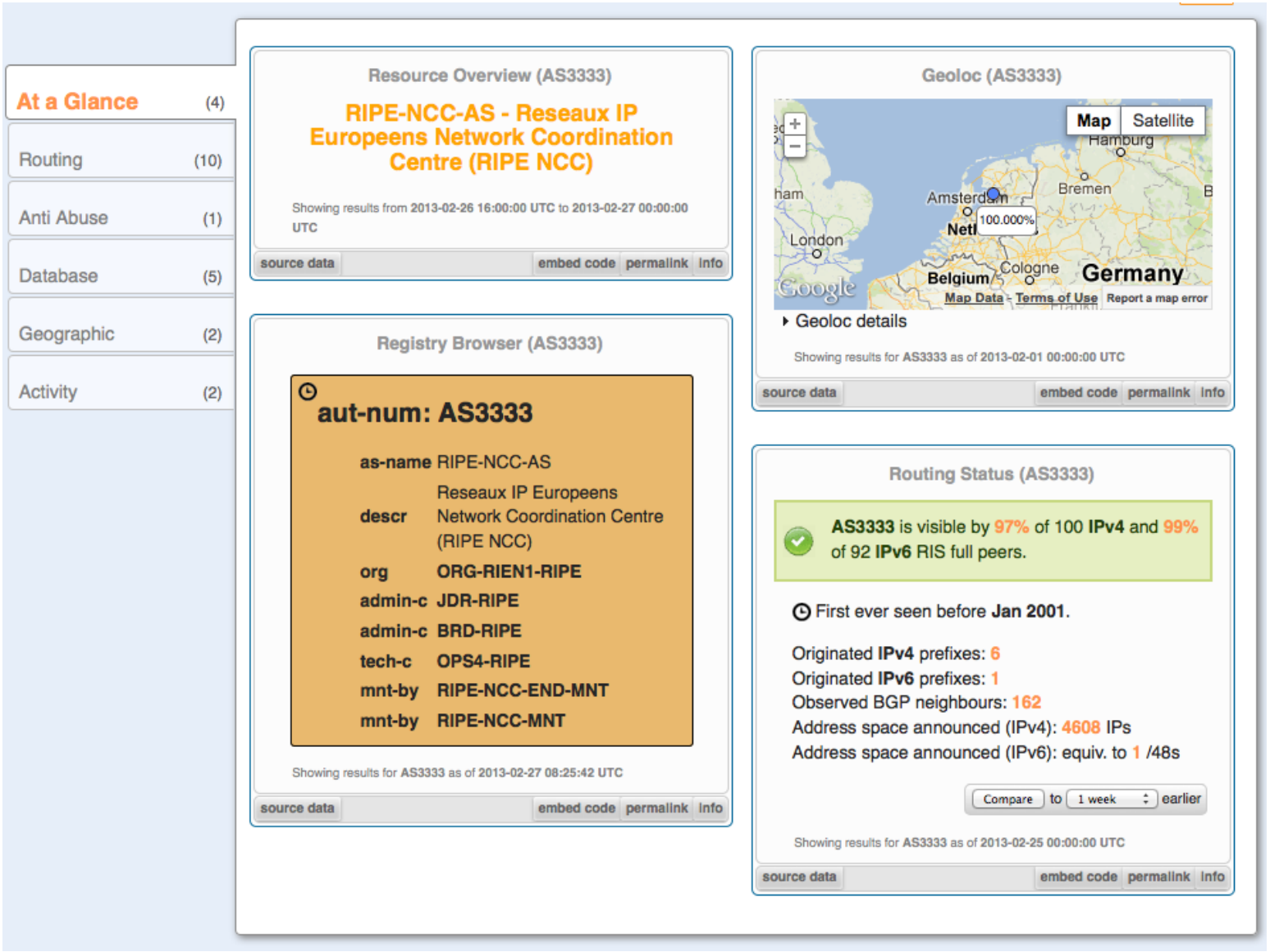
RIPEstat

- A “one stop shop” if you want to know more about ASNs or IP prefixes (and more)
- A service (website and CLI) built to explain various aspects of these resources:

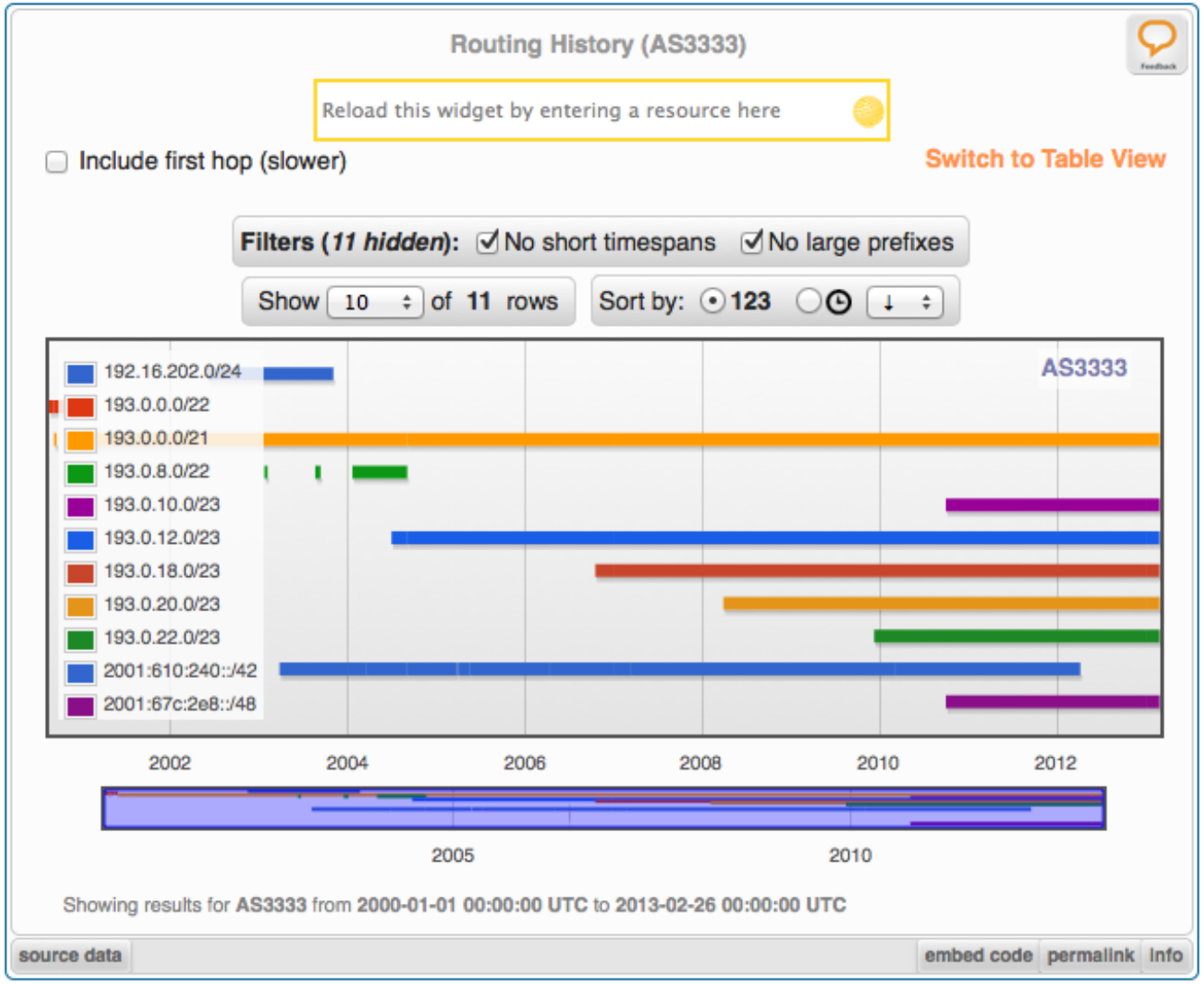
Routing	Anti-abuse
DNS	Geographical
Registration	Activity/Measurements

- Data and visualisations are both available
- Coming: support for countries and hostnames

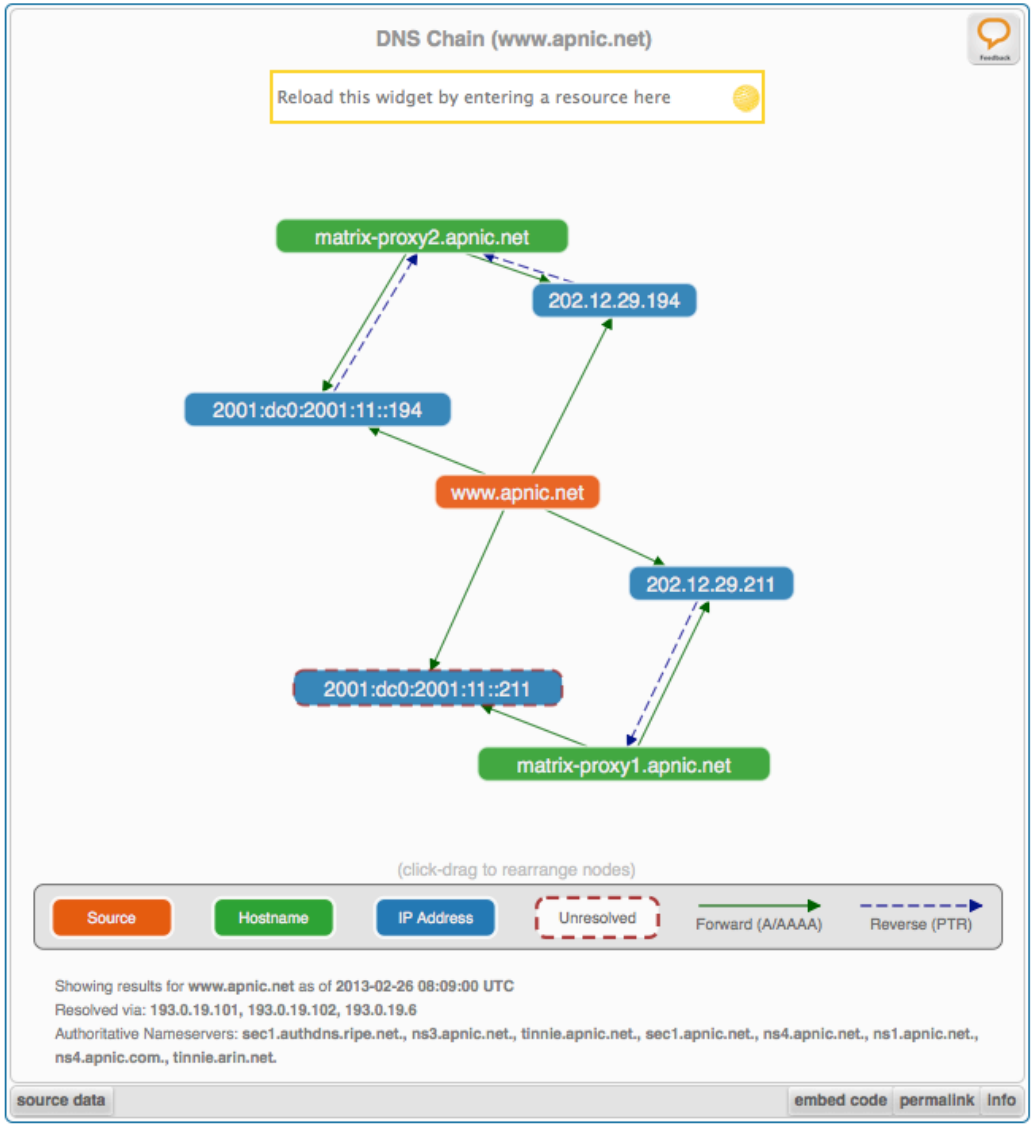
RIPEstat


At a Glance (4)
Routing (10)
Anti Abuse (1)
Database (5)
Geographic (2)
Activity (2)
Resource Overview (AS3333)
RIPE-NCC-AS - Reseaux IP Europeens Network Coordination Centre (RIPE NCC)
Showing results from 2013-02-26 16:00:00 UTC to 2013-02-27 00:00:00 UTC
source data
embed code
permalink
info
Registry Browser (AS3333)
aut-num: AS3333
as-name RIPE-NCC-AS
descr Reseaux IP Europeens Network Coordination Centre (RIPE NCC)
org ORG-RIEN1-RIPE
admin-c JDR-RIPE
admin-c BRD-RIPE
tech-c OPS4-RIPE
mnt-by RIPE-NCC-END-MNT
mnt-by RIPE-NCC-MNT
Showing results for AS3333 as of 2013-02-27 08:25:42 UTC
source data
embed code
permalink
info
Geoloc (AS3333)
Map
Satellite
Hamburg
Bremen
Amsterdam
London
Belgium
Cologne
Germany
100.000%
Google
Map Data
Terms of Use
Report a map error
Geoloc details
Showing results for AS3333 as of 2013-02-01 00:00:00 UTC
source data
embed code
permalink
info
Routing Status (AS3333)
AS3333 is visible by 97% of 100 IPv4 and 99% of 92 IPv6 RIS full peers.
First ever seen before Jan 2001.
Originated IPv4 prefixes: 6
Originated IPv6 prefixes: 1
Observed BGP neighbours: 162
Address space announced (IPv4): 4608 IPs
Address space announced (IPv6): equiv. to 1 /48s
Compare to 1 week earlier
Showing results for AS3333 as of 2013-02-25 00:00:00 UTC
source data
embed code
permalink
info

RIPEstat


Routing History (AS3333)
Reload this widget by entering a resource here
Include first hop (slower)
Switch to Table View
Filters (11 hidden): No short timespans No large prefixes
Show 10 of 11 rows
Sort by: 123
AS3333
192.16.202.0/24
193.0.0.0/22
193.0.0.0/21
193.0.8.0/22
193.0.10.0/23
193.0.12.0/23
193.0.18.0/23
193.0.20.0/23
193.0.22.0/23
2001:610:240::/42
2001:67c:2e8::/48
2002
2004
2006
2008
2010
2012
2005
2010
Showing results for AS3333 from 2000-01-01 00:00:00 UTC to 2013-02-26 00:00:00 UTC
source data
embed code
permalink
info

RIPEstat


DNS Chain (www.apnic.net)
Reload this widget by entering a resource here
matrix-proxy2.apnic.net
202.12.29.194
2001:dc0:2001:11::194
www.apnic.net
202.12.29.211
2001:dc0:2001:11::211
matrix-proxy1.apnic.net
(click-drag to rearrange nodes)
Source
Hostname
IP Address
Unresolved
Forward (A/AAAA)
Reverse (PTR)
Showing results for www.apnic.net as of 2013-02-26 08:09:00 UTC
Resolved via: 193.0.19.101, 193.0.19.102, 193.0.19.6
Authoritative Nameservers: sec1.authdns.ripe.net., ns3.apnic.net., tinnie.apnic.net., sec1.apnic.net., ns4.apnic.net., ns1.apnic.net., ns4.apnic.com., tinnie.arin.net.
source data
embed code
permalink
info

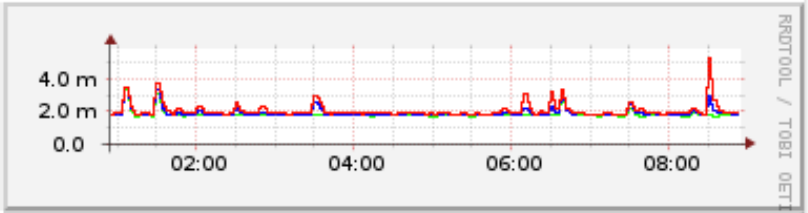
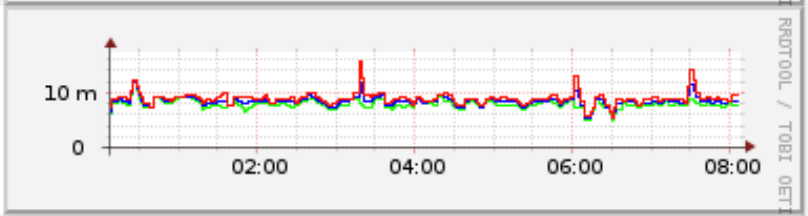
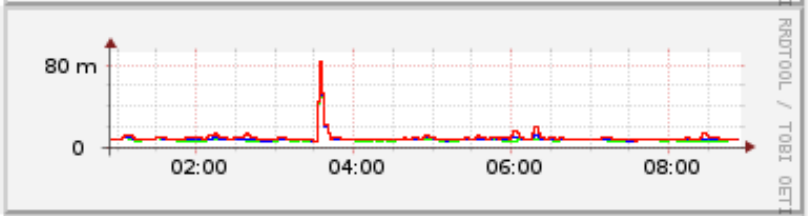
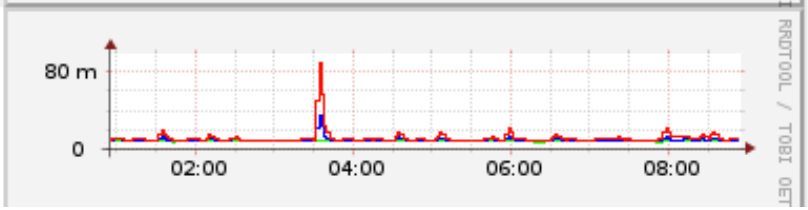
RIPE Atlas

- A measurement network consisting of ~2700 up-and-running vantage points
- Each vantage point is a tiny hardware device ("probe"), hosted by a contributor
- If you host a probe
  - you immediately get access to what it sees
  - you can ask the system to do a measurement for you, using *any* probe(s) in the system

RIPE Atlas

- All probes do built-in measurements, like pings

Built-in Measurements

Measurement	Target Address	Last min / avg / max When	Graph
Traceroute First Hop	192.168.99.99 192.168.99.99	1.736 ms / 1.796 ms / 1.885 ms 2013-02-27 08:53:35 UTC	
Traceroute Alternative Second Hop	212.142.60.9 212.142.60.9	7.694 ms / 8.615 ms / 9.536 ms 2011-10-27 08:07:11 UTC Outdated for more than one month	
Traceroute Second Hop	10.15.158.129 10.15.158.129	7.225 ms / 7.412 ms / 7.692 ms 2013-02-27 08:53:35 UTC	
Ping (IPv4)	k.root-servers.net 193.0.14.129	9.200 ms / 9.612 ms / 9.927 ms 2013-02-27 08:53:48 UTC	

RIPE Atlas

- All probes do built-in measurements, like DNS

RIPE Atlas

- Running your own measurement:

RIPE Atlas

- Deployment of probes focuses on the RIPE NCC service region, but it's useful to be present globally
- If you're interested:
  - Talk to us, we have *some* probes here:
    - Ingrid, Emilio, Robert
  - Or apply on the website