RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE Atlas News

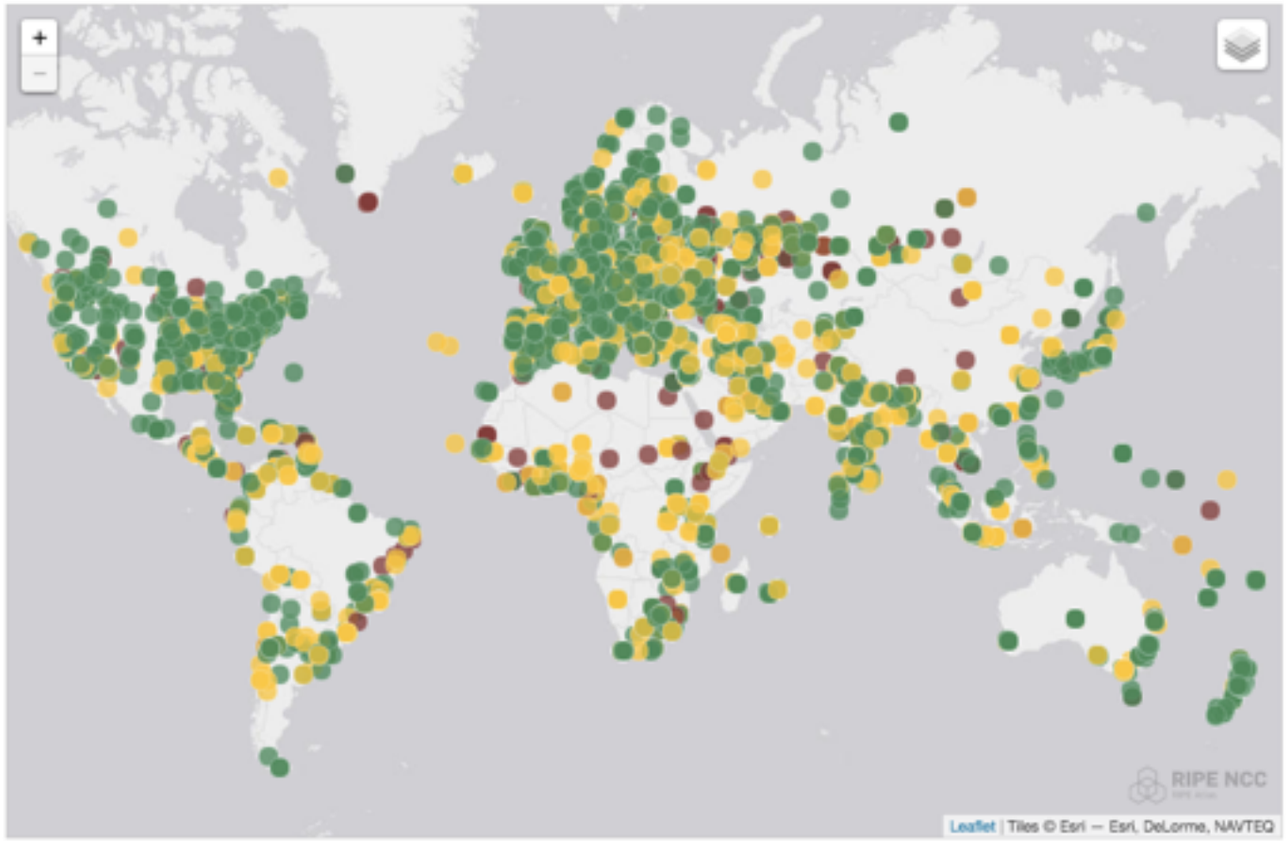
Robert Kisteleki | AIMS 2016

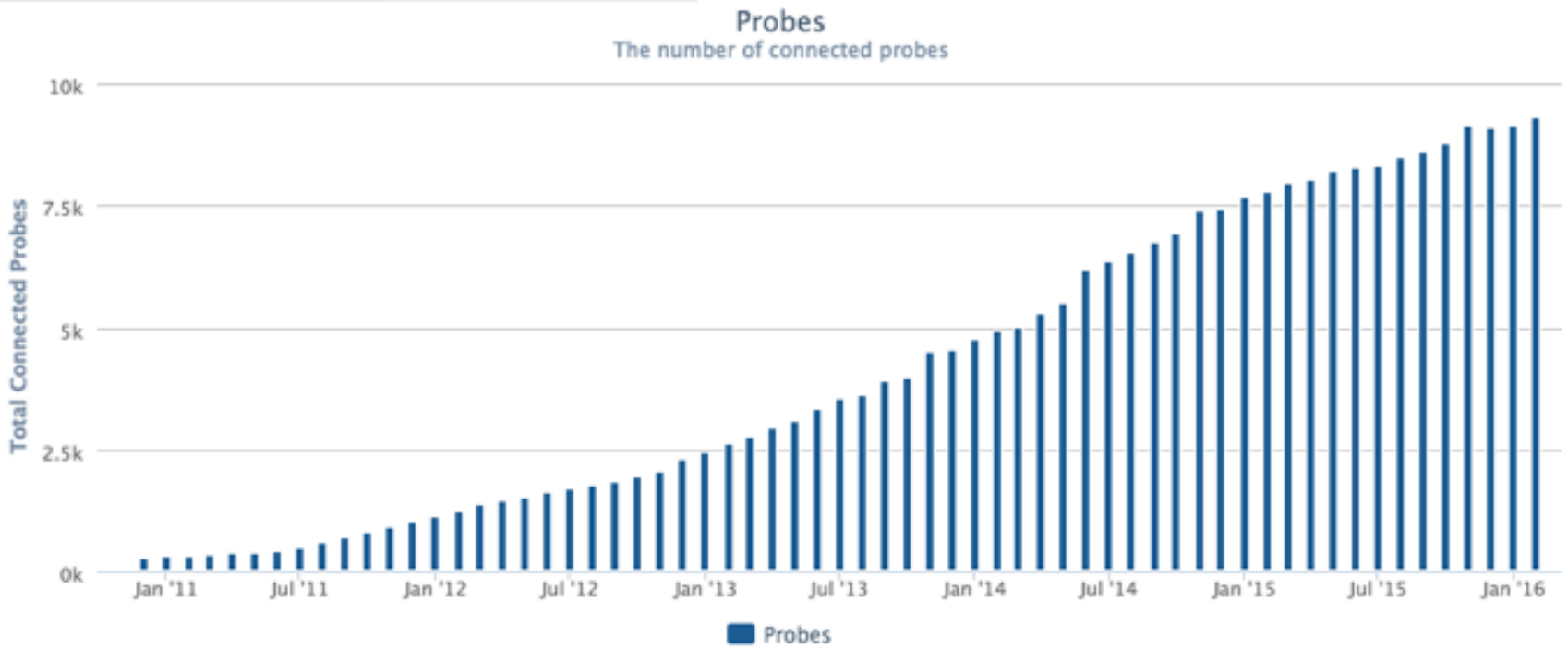
New Logo

RIPE NCC

RIPE NETWORK COORDINATION CENTRE

Recent Numbers





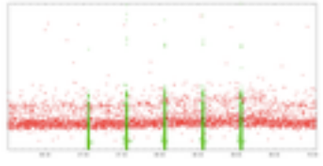
New Data Streaming

- Data streaming is now officially available
- We're using it more and more
  - QuickLook — real time measurements + viz
  - LatencyMon (see later)
  - CLI toolset (see later)
  - More in the works
- Supports type, target prefix and ASN filters
- Thinking about a second streaming colo

New Probe Features

- Address discovery
  - Use connection address, ip-echo and local address
  - Different preferences in IPv4 and IPv6
- Share with ad-hoc group, no longer for NCC members only
- Probe connect / disconnect and uptime events are now available as “measurements”

New Measurements Features



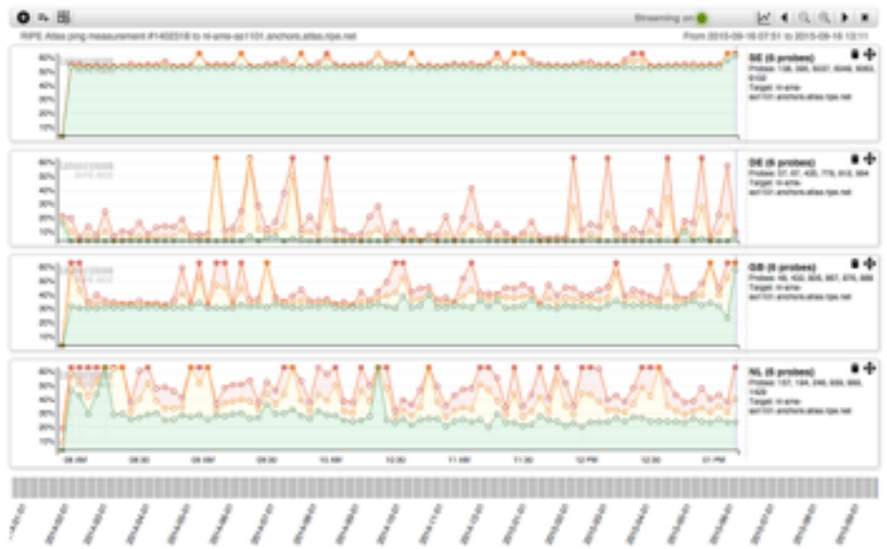
- Distribution spread control
  - Better control on how tightly packed the requests are
- Target whitelisting / blacklisting
  - Manual administration for now, you need to ask
- Coming soon: fairer resource limits
  - Max results / day asked for
  - Instead of max parallel msm, max probes

New Maps and Viz Features

- “Time Travel” is available on maps
  - Pretend that $now is sometime in the past, show viz for that
- Clustering/filtering per observed results
  - Eg. ping RTT buckets
  - Traceroute hops, RTT
  - Eg. DNS query outcome, NSID, …
  - HTTP status codes

New Visualisations

- LatencyMON
  - Will replace the seismograph
  - Can visualise results from arbitrary measurements, probes
  - Can use the real-time stream to update the view
  - … and more
- DomainMON
  - Monitor your own DNS zone
  - Visualise with the DNSMON widget
- Traceroutes coming soon



New Credit Features

- Vouchers
  - Easy way to get users started
- Standing orders
  - Periodically distribute your excess credits
- Bill someone else
  - For example a corporate account
- Interest rates
  - Not really

New Firmware Features

- Security enhancements
  - More privilege separation
  - Bug fixes as usual
- Use monotonic clock
  - We used current time instead
  - NTP and other methods used clock skews
  - That’s no longer the case

New CLI toolset

- For those who prefer terminals over browsers
- ripe.atlas.tools, codename “Magellan”
- Fully open source
  - Depends on other Atlas libraries such as Sagan, Cousteau
- Can start measurements, fetch data, report, aggregate, search, …
- We are working together with package maintainers to make it easy to deploy
  - *BSD, various Linux distros, etc.

New Hackaton(s)

- The second one was about “supporting tools”
  - YIN-YANG ninjaX traceroutes: forward / reverse trace route path comparison
  - ASN Tryst - http://asntryst.com/
  - Multi homed probe (routed over 3G/4G)
  - shrugd - DNS resolver emulation
  - … and more

New Plans

- More hackatons
  - Two per year planned, colocated with RIPE meetings
- Topology discovery
  - All probes tracerouting to a”random” destinations
- Wifi measurements
  - Eg. eduroam
- Research on VMs
  - To check what this would mean

Questions

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