RIPE Atlas & RIPEstat

MENOG 14 - DNSSEC WS

Christian Teuschel

RIPE NCC

RIPE Atlas - Active Measurements Network

https://atlas.ripe.net

- Next-generation Internet measurements network
  - Thousands of measurement vantage points
  - Probes run different measurements: ping, traceroute, SSL, DNS

- Instead of building small, individual, private infrastructures, build a HUGE common infrastructure that serves both private and community goals

RIPE Atlas Update

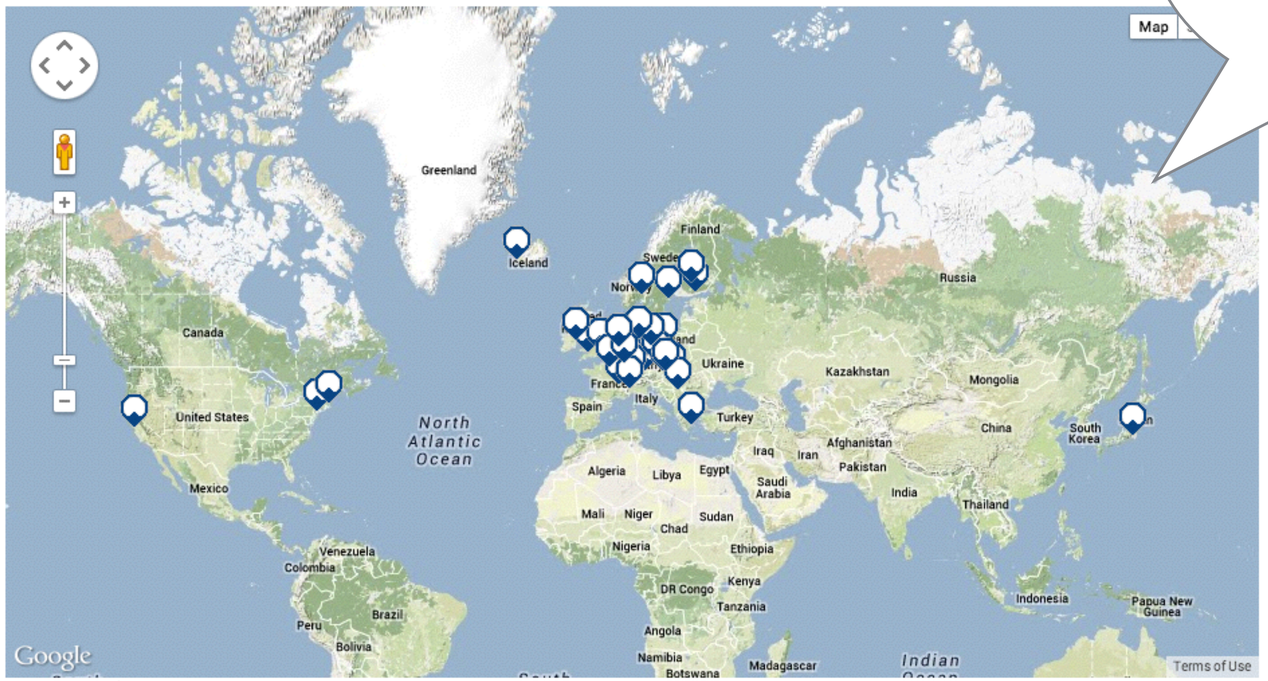
- 5000+ active probes
- 7000+ active users worldwide

Source: https://atlas.ripe.net/results/maps/network-coverage/

RIPE Atlas Anchors

- RIPE Atlas anchors
  - Collecting data as enhanced RIPE Atlas probes
  - Acting as targets for regional measurements
  - Production since October 2013

40+ anchors (March 2014)

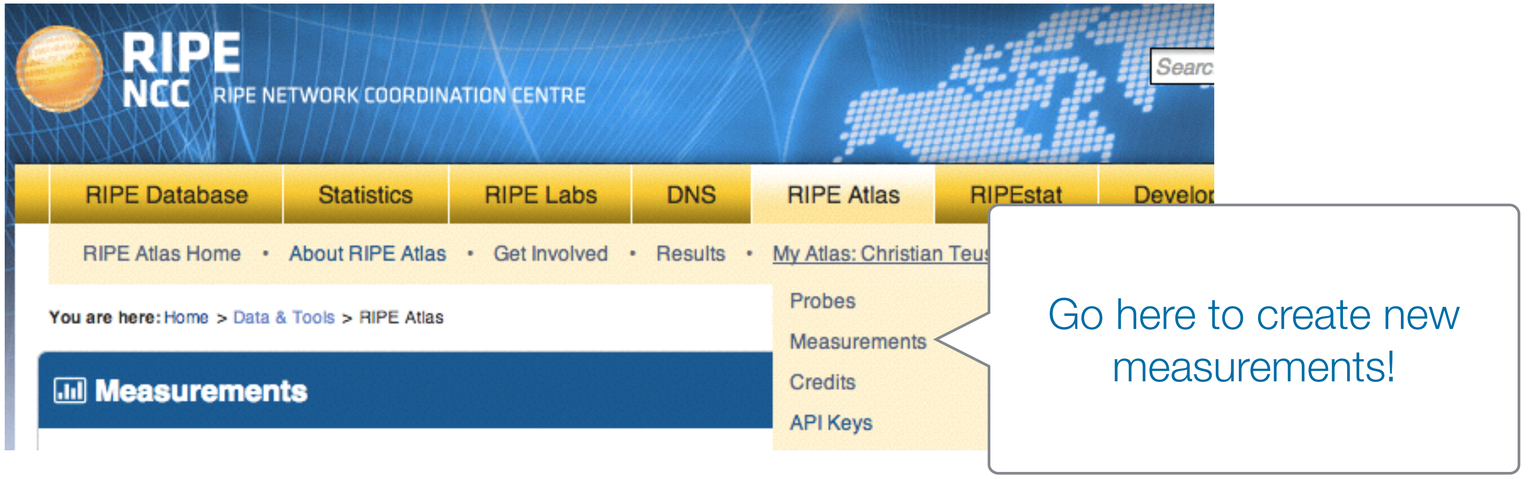


Source: https://atlas.ripe.net/contrib/density.html

RIPE Atlas - Active Measurements Network

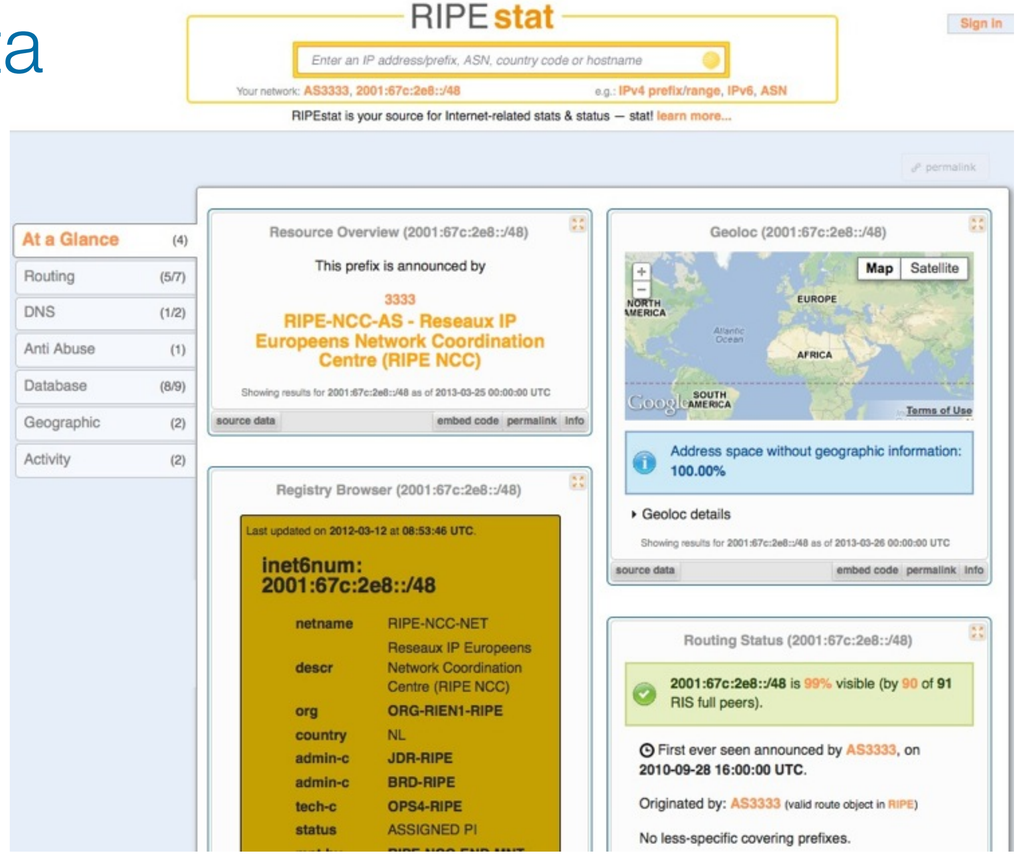
- Requirements
  - Create an account (https://access.ripe.net)
  - Host a probe to collect credits to run user-defined measurements

- Go to atlas.ripe.net



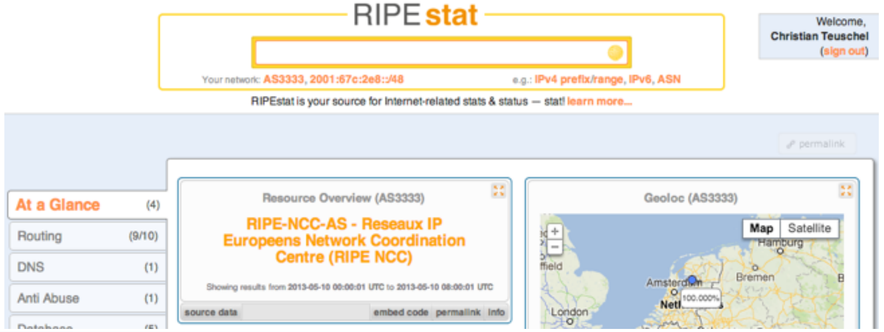
Introduction to RIPEstat

- Modular & extendable toolbox
- Single interface for Internet-related data
  - Routing data (collected by RRC network)
  - Registration data
  - DNS data
  - Geolocation data
  - Data collected by Atlas
  - ...
- RIPEstat is driven by user feedback

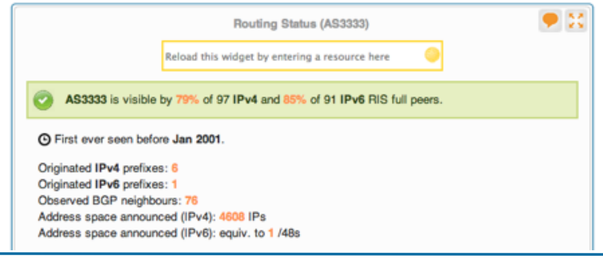


Introduction to RIPEstat

- https://stat.ripe.net



- RIPEstat Widget API



- RIPEstat Data API / RIPEstat Text API

https://stat.ripe.net/data/routing-status/data.json?resource=AS3333

RIPEstat

- **Live Demo**

  https://stat.ripe.net

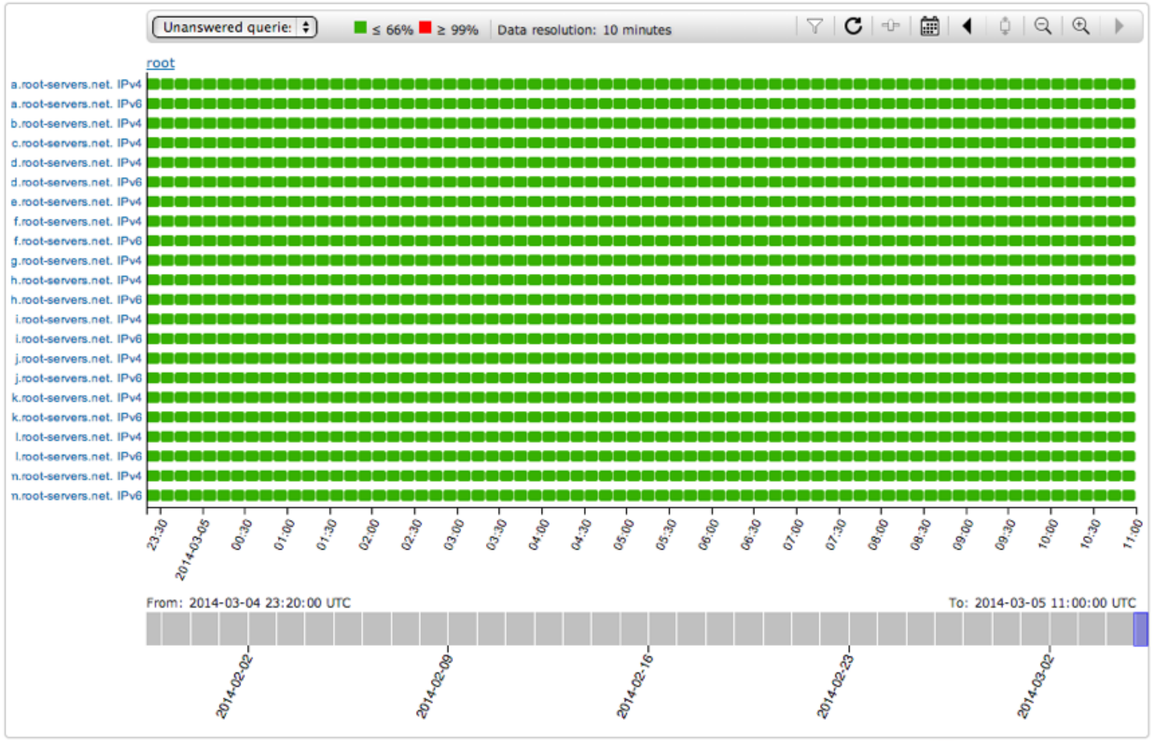
- **Documentations**

  https://stat.ripe.net/index/documentation

Update on DNSMON

- Measures quality of high-level DNS servers
  - root servers & some TLD servers
- Based on Atlas anchor measurement data
- Current and historical data
- Public beta:

https://atlas.ripe.net/dnsmon/



Feedback

- RIPE Atlas
  - atlas@ripe.net
- RIPEstat
  - stat@ripe.net
- DNSMON
  - dnsmon@ripe.net
- Past/Current/Future Developments
  - http://roadmap.ripe.net/

RIPE NCC