



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE Atlas 2015 Update

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RIPE Atlas

From Wikipedia, the free encyclopedia

RIPE Atlas is a global, open, distributed Internet measurement platform, consisting of thousands of measurement devices that measure Internet connectivity in real time.

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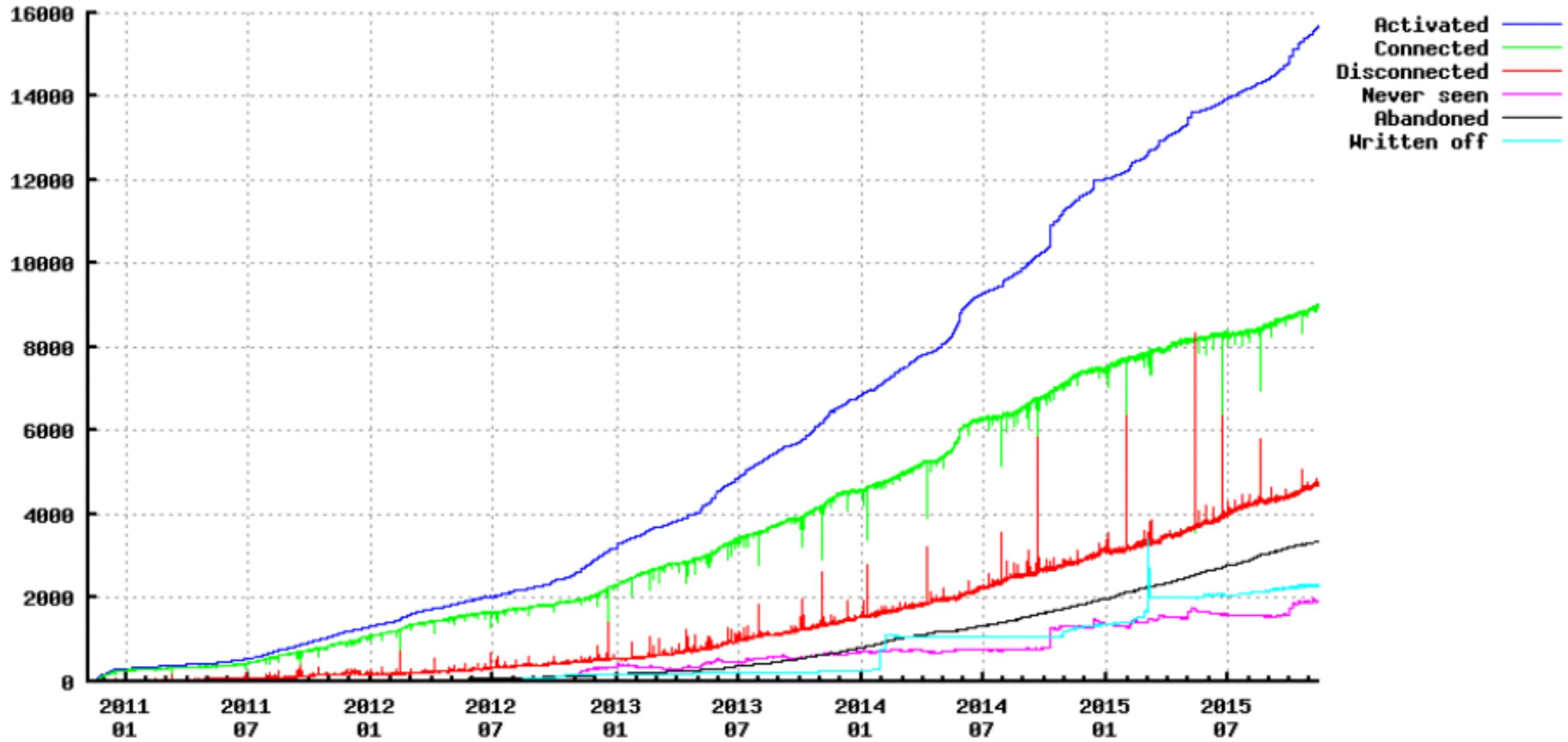
- History
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Bye Bye 2015, You Were Nice...



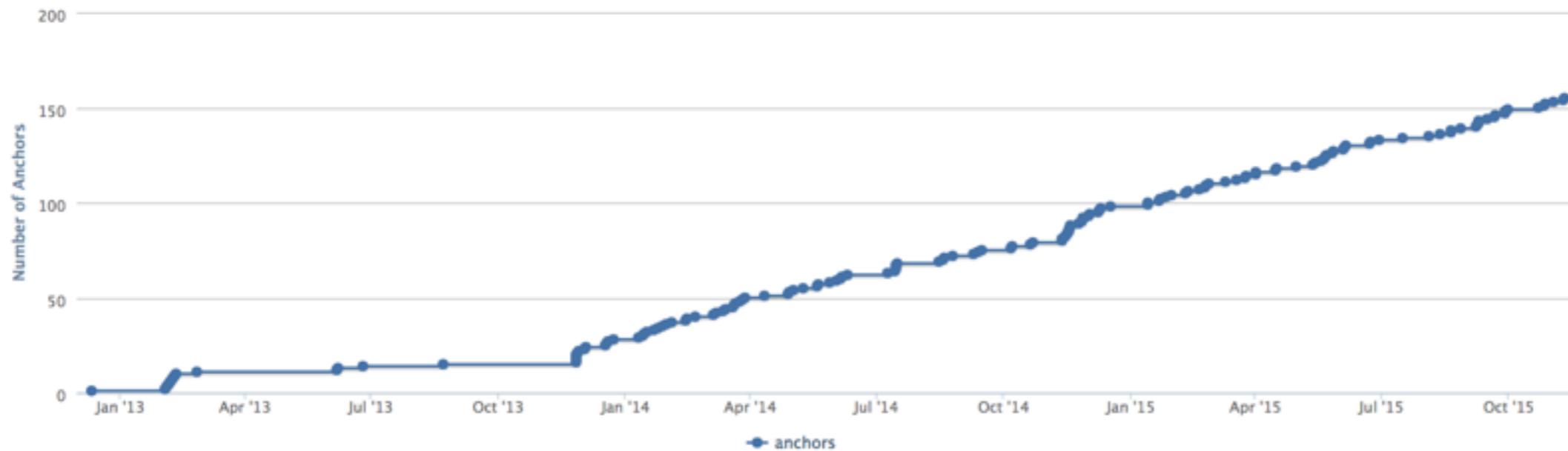
- Active probes increased from 7,500 to 9,000
 - 2,200 activated, 700 “died”
- Probes shipped: 3,500
 - 1,000 to LIRs (RIPE NCC members)
- RIPE Atlas anchors grew from 100 to 157
- Active users: 10,000 last year, 5,000 last quarter
- Measurements: on average 150,000 per month

Probe deployment -- 2015-11-12 10:42:04 UTC



RIPE Atlas Anchors

Growth in the number of RIPE Atlas anchors over time



RIPE Atlas Coverage



- Countries covered: 176
- Originating ASNs covered:
 - 3,251 (IPv4) = 6%
 - 1,187 (IPv6) = 11%

Country	Probes
United States of America	998
Germany	932
France	771
United Kingdom	592
Netherlands	529
Russia	474
Czech Republic	259
Italy	256
Switzerland	236
Ukraine	224



Hackathon Powered By...



Community News for 2015



- Nine sponsors so far, one already for 2016
- 280 active ambassadors, at many conferences
- Using GitHub for multilingual documentation
- Introduced webinars: three done, one more to go
- IP Journal issue describing RIPE Atlas published
- RIPE Atlas Wikipedia article
- Two hackathons, impressive results

We are Grateful to our Sponsors



2016



2015



Thank You, RIPE Atlas Anchor Hosts!



We appreciate the support of the following RIPE Atlas anchor hosts:



Newest Feature: CLI Tools



- Command-line interface to RIPE Atlas API
 - Simple, familiar usage from the terminal
 - Human-readable results
- Open-source development: [code on GitHub](#)
- Next: included in the Linux / BSD distributions



More New Features

- HTTP measurements to anchors
- “Time Travel”
- LatencyMON
- Sharing your probe with a group
- Whitelisting and blacklisting targets, on request
- Other recent features: [RIPE Labs article](#)

Famous Use Cases



- DNS
 - Root nameservers performance analysis (F-root, K-root)
 - Monitoring ccTLDs (DSNMON)
- Visualising impact of IXP on localising paths
- Evidence: peering at IXP improves performance
- Checking connectivity using anchors
- Internet routes around the damage
- ...and many, many research papers

Upcoming New Features



- DomainMON (in the testing phase)
 - Monitoring your second-level domain name
 - Simple to set up, powerful visualisation of received data
- Adding more DNSMON zones
- Sharing credits with colleagues
- Roadmap has a new home:
 - <https://atlas.ripe.net/docs/roadmap/>

Big Plans for 2016



- WiFi measurements
 - Asking the community: new probe or old probe?
- VM-probe
 - Ongoing discussion with the community
- Continued third party security audits
- OpenIPMap-as-a-service

Renewal of Support Contracts for RIPE Atlas Anchors



- Dell anchors, pilot phase
 - First contracts will expire in 2016 (four year support)
 - We would like to keep you as hosts
 - Suggesting to move to Soekris
 - Repurpose Dell as K-root

Community Building in 2016



- More hackathons
 - 6-7 February 2016, BGP & RIPE Atlas, CAIDA, San Diego
 - 12-13 May, IXP & RIPE Atlas, hosted by De-CIX, Frankfurt
- Continue cooperation with research community
- Participate in open-source development of tools
- Increase outreach to content providers
- Continue webinars, workshops, conferences outreach

Take Part!



- Use RIPE Atlas for your operations: monitoring, troubleshooting
- Do scientific research
- Contribute to the code
- Write documentation
- Become an ambassador or a sponsor
- Host a RIPE Atlas anchor, or place a probe in a new exotic location

Stay in Touch with RIPE Atlas



- Mailing list: ripe-atlas@ripe.net
- Blog: <https://labs.ripe.net/atlas>
- Questions: atlas@ripe.net
- Twitter: @RIPE_Atlas / #RIPEAtlas
- <https://atlas.ripe.net>

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