

RIPE Atlas News

Robert Kisteleki | RIPE 74 MAT WG

Current Numbers



- Number of connected probes: ~9750
 - Was ~9350 during RIPE 73
 - Recovered from the previous slow-down/dip
- Covered ASes: ~3400 (IPv4), ~1250 (IPv6)
- Collecting ~4500 results/sec (~390M/day)



Some More Current Numbers



- 384 RIPE Atlas ambassadors
 - Including RIPE NCC staff acting as ambassadors
- 1940 Twitter followers (@RIPE_Atlas)
- 33000+ users total, 6400+ active last quarter
- 1000+ mailing list subscribers
- 2 RIPE Atlas sponsors in 2017 (+3 pending)
 - Let us know if you feel like sponsoring!

Recent Use Cases



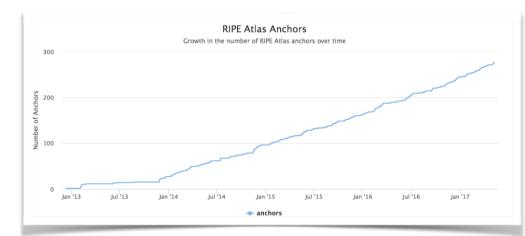
- Turning on Anycast on B-Root
 - <u>https://labs.ripe.net/Members/giovane_moura/anycast-on-b-root-and-ripe-atlas-view</u>
- Using RIPE Atlas to Measure Latency to Reunion Island
 - <u>https://labs.ripe.net/Members/rehan_noordally/using-ripe-atlas-to-measure-latency-to-reunion-island</u>
- Using RIPE Atlas to Validate International Routing Detours
 - <u>https://labs.ripe.net/Members/anant_shah/using-ripe-atlas-to-validate-international-routing-detours</u>
- Reviewing the 2016 Leap Second
 - <u>https://labs.ripe.net/Members/stephen_strowes/reviewing-the-2016-leap-second</u>
- Reasons Dynamic Addresses Change
 - https://labs.ripe.net/Members/ramakrishna_padmanabhan/reasons-dynamic-addresses-change

Anchors



- An anchor is a probe and a willing target
 - Automatically measured and generate more credits
- Number of anchors: 250+ (224 last time)
- Thanks to APNIC, LACNIC, ISOC & AFRINIC who are sponsoring anchors in other regions
 - Let us know if you also want to sponsor these





Probes



- We're looking at candidates for "version 4" probes
 - Should be capable, stable, inexpensive and available
- Version 1 and 2 probes already lived beyond their foreseen life time
 - We still have ~600 + ~1400 of these up and running
 - Version 1 probes approached their technical limits
 - We'll freeze their firmware soon but otherwise continue supporting them for as long as possible (e.g. still do security updates if needed)

Going Virtual (?)



- We're evaluating the potential for virtual probes
 - Probes where the physical device is replaced by a Virtual Machine provided by the host
 - Could reach places that physical probes can't
 - The costs: higher risks and changes in operations, "noisy neighbours", avoiding "fast flux" deployments, etc.
- Perhaps even virtual anchors, as a next step

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In Other News

- New "probe stability" system tags
- New DNS root zone measurements
- May be coming: "Cloud Reachability"
 - Reachability measurements against servers "in the cloud"
- Held a DNS measurements hackathon in April 2017
 - <u>https://labs.ripe.net/Members/alun_davies/dns-measurements-hackathon-2017</u>



Out Now: TraceMON



- Our newest traceroute visualisation tool
 - Watch Massimo's presentation for details



Almost There: Wi-Fi Measurements

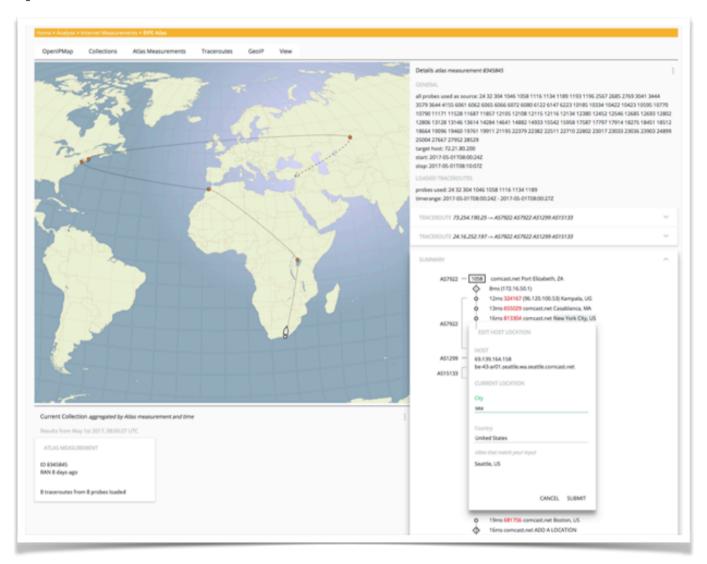


- Verifying if Wi-Fi connections work or not
 - Using regular, wired probes
- Not general purpose "is my home Wi-Fi ok?"
 - Targets specific WiFi networks; Eduroam first
- Probes/hosts will have to opt-in
- Main benefit for RIPE Atlas: potential wider coverage of networks

OpenIPMap



• First production release is imminent





Questions



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