13027

Tools & Measurements

IEPG, IETF 86, Orlando, 10 March 2013

Mirjam Kühne, RIPE NCC





• New developments in RIPE Atlas

• New developments in RIPEstat

• Other RIPE Labs highlights



F1.100.14 00:13023 9F2:80:119 19:00:80) 58:1095

RIPE Atlas



RIPE Atlas - Active Measurements Network

- Next generation Internet measurements network
 - Thousands of measurement nodes
 - 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



http://labs.ripe.net/atlas

RIPE Atlas Update

- 2,700 active probes and 6,000 users worldwide
 - Increasing number of requests
 - Working on next version of probes
- RIPE Atlas anchors pilot started (10 volunteers)
 - Collecting data from surrounding RIPE Atlas probes
 - Acting as targets for measurements
- New generation probes
 TP-LINK TL-MR 3020





Currently Under Development

- APIs to interact with the system
 - Probe API: info about vantage points
 - Measurement API: info about measurements
 - API key to download measurement results owned by user
- One-off measurements
 - Allowing for immediate, one-time measurements
 - In addition to user-defined measurements



Measuring Storm Sandy with RIPE Atlas

- RIPE Atlas probes on East Coast US unavailable during storm Sandy
- Storm had an effect on other parts of Internet



41.0017 000:13023 9.F2:80:119 19:00:80) 58:1095

RIPEstat



RIPEstat - https://stat.ripe.net



Toolbox

- All data in one place
- Routing, IP, geoloc, BLs, etc.
- Graphical interface
- Over 40 widgets
- Updates on RIPE Labs
 - Collaboration with users



What's new in RIPEstat

- New interface
- Command-line interface
 - Text-based server on port 43
- Various new widgets
- Next: more country-based widgets and more comparison views

Please give us feedback



New RIPEstat Interface



Country Routing Statistics

- IPv4, IPv6, ASNs per country over time
 - <u>https://stat.ripe.net/widget/country-routing-stats</u>
- Compare with another country
 - <u>https://stat.ripe.net/special/country-comparison</u>





Anti-Abuse Contact Finder

- Finds potential contacts to report abuse cases
 - <u>https://stat.ripe.net/special/abuse</u>
- Rates the quality of the information found
- New policy requires abuse-c attribute in DB

	Abuse Contact Finder (193.0.20.0/23)	
Email-Conta	ct	
	abuse@ripe.net	
Contact-Qua	ulity-Rating	
	★★★★ (4/4)	
You ca	an use this contact to report abuse. It is very likely to be the correct abuse contact.	



85110014 000:13be3 9F2:80:119 19:00:30 58:1095

RIPE Labs



What is RIPE Labs?

- It's a website, but more importantly:
 - It is a platform and a tool for the community
- You can:
 - Test and evaluate new tools and prototypes
 - Contribute new ideas and research results
 - Provide feedback and discuss with others

http://labs.ripe.net/



IXP Traffic Levels During Major Events



sdq

Statistics Dashboard



The current number of LIRs (in April LIRs with outstanding invoices get closed, hence the drop).

Current number of LIRs

8497

Tags: Ins



Number of Local Internet Registries (LIRs) in the RIPE NCC service region that have an IPv6 allocation (green line) and that don't have an IPv6 allocation (yet) (red line).

4630 | 3867

Tags: lins ipv6



RIPE NCC Membership Statistics



Tags: lirs





- One page with various Internet statistics
- Automatically updated
- Each graph is tagged
 Easier to navigate

http://labs.ripe.net/statistics



Questions?

