RIPEstat Use Cases

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Measurements Community Building

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Introduction: https://stat.ripe.net

- RIPEstat is a “one-stop shop” for information about Internet number resources
  - From the RIPE NCC: registration data and RIPE Database, routing (RIS), reverse DNS, RIPE Atlas measurements
  - External sources: RIRs, routing registries (IRR), geolocation, blacklists, M-Lab network activity

- Search by: IPv4, IPv6 address/prefix; AS Number; hostname; country; keywords (new)
Web Interface: Query Results Page

- Search box
- Widgets
- Widgets grouped into thematic tabs
Country View: Poland
Comparison: Poland & Neighbours

IPv6

IPv4
RIPE Atlas Probes in Poland

Reload this widget by entering a resource here.

Found 159 RIPE Atlas probes in this network.
Observed Bandwidth Capacity (M-Lab)

Bandwidth was sampled by M-Lab from 543 unique hosts within PL.
Use Cases
Assisted Registry Checks

• RIPEstat is used extensively for Assisted Registry Checks by LIRs

• Registration Services of RIPE NCC are proactively identifying routing and reverse DNS inconsistencies

• https://labs.ripe.net/Members/matt_parker/assisted-registry-check-first-results
In April 2014, Indosat (AS4761) announced prefixes which were not allocated to them. Many ASNs were affected and temporarily "disappeared."

https://labs.ripe.net/Members/wilhelm/bgp-leaks-in-indonesia
Lets BGPlay!

• Indonesian incident visible in BGPlay

• The most famous incident: YouTube hijacked by Pakistan Telecom:
  http://www.youtube.com/watch?v=IzLPKuAOe50

• BGPlay is back as part of RIPEstat
Multiple Widget Comparison

- Making peering decisions

- https://labs.ripe.net/Members/suzanne_taylor_muzzin/ripestats-multiple-widget-and-resource-comparison
Looking up RIPE Atlas Activity

RIPEstat — Internet Measurements and Analysis

You are here: Home > Data & Tools > RIPEstat > atlas-targets

RIPE Atlas Measurement Targets (8.8.8.8)

<table>
<thead>
<tr>
<th>Measurement ID</th>
<th>Stopped</th>
<th>Type</th>
<th>Target IP</th>
<th>Target Hostname</th>
</tr>
</thead>
<tbody>
<tr>
<td>1040720</td>
<td>ongoing</td>
<td>ping</td>
<td>8.8.8.8</td>
<td>google-public-dns-a.google.com</td>
</tr>
<tr>
<td>1006491</td>
<td>ongoing</td>
<td>traceroute</td>
<td>8.8.8.8</td>
<td>not specified</td>
</tr>
<tr>
<td>1006192</td>
<td>ongoing</td>
<td>ping</td>
<td>8.8.8.8</td>
<td>not specified</td>
</tr>
<tr>
<td>1004827</td>
<td>ongoing</td>
<td>traceroute</td>
<td>8.8.8.8</td>
<td>not specified</td>
</tr>
<tr>
<td>1002630</td>
<td>ongoing</td>
<td>ping</td>
<td>8.8.8.8</td>
<td>not specified</td>
</tr>
<tr>
<td>1478085</td>
<td>2014-02-24 13:41 UTC</td>
<td>dns</td>
<td>8.8.8.5</td>
<td>not specified</td>
</tr>
</tbody>
</table>
Plans for the Future and Feedback

• Improve back-end stability and performance to enable resilience of current services and scale for future growth

• Increase data quality and consistency
  - Plans to renew the RIS collection process
  - Increase freshness of collected routing data (“live”)

• Tell us your feature requests:
  - http://roadmap.ripe.net/ripe-stat/
  - stat@ripe.net
  - Twitter: @RIPE_NCC / #ripestat
Questions?

https://stat.ripe.net