RIPEstat

One-Stop-Shop For Internet Data
RIPEstat

• The source for Internet data and statistics
Data Sets
Registry Data

- Registry of Internet number resources (INR)
- Five Regional Internet Registries

- 5,379 members
  - ARIN

- ~6k members
  - LACNIC

- 14,699 members
  - RIPE

- 5,794 members
  - APNIC

- 1,419 members
  - AFRINIC
Registry Data

- Internet Routing Registry (IRR)
- Purpose to facilitate routing (RPSL)

http://www.irr.net/docs/list.html
Routing Data

- **RIS**
  - The RIPE NCC has been collecting BGP data since 1999
  - 18 collectors and growing
  - 160+ full-feed peers
  - [http://ris.ripe.net](http://ris.ripe.net)
RIPE Atlas

- Global network for Internet measurements
RIPE Atlas

- Global network for Internet measurements

Statistics
- Probes connected: 9704
- Anchors connected: 258
- Measurements running: 14283
- Results per second: 4501
RIPE Atlas

• Global network for Internet measurements

Statistics

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Create a New Measurement

Step 1 Definitions

Please select the type of measurement you want to create

- Ping
- Traceroute
- DNS
- SSL
- HTTP
- NTP
RIPEstat

- Access to these datasets:
  - RIPE Database (INR, IRR) and other RIRs
  - BGP routing data (RIS)
  - RIPE Atlas, M-Lab, Speedchecker, etc.
  - Geolocation
  - Blacklist

- New datasets are constantly added!
APIs
RIPEstat

- https://stat.ripe.net

RIPEstat widget API

RIPEstat data API

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

On average 30+ million requests/day!
Supported resources:

* IP address/prefix (v4/v6)
* ASN
* Domain names
* Country

RIPEstat Data API
RESTful. Versatile. And all about data.
RIPEstat - Data API

- More than 50 data calls
- Ideal if you build applications/visualisations
- “True value lies in combining data”
- Documentation: https://stat.ripe.net/docs/data_api
RIPEstat - Widget API

- HTML5/CSS/JS applications
- Standard Javascript
  - JQuery
  - Require.js
- More than 50 widgets
- Documentation
  - https://stat.ripe.net/docs/widget_api
Use Cases
Routing

- BGPlay
Routing

- Routing History
Routing

• Routing History
Abuse Handling

- Abuse-c
Active Measurements

- Bandwidth
Aggregated Data

- Country statistics
What is next?

- More data
- More visualisations
- Country Reports
Questions

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