Applications of Internet Data

Is our data good enough?
The Trend to More Data

• RIPEstat usage grew by 1600% (2011 - 2016)
• https://stat.ripe.net
Last week…

• …I went to the IPv6 Day in Tel Aviv
• What is the IPv6 deployment in Israel?
Measurement Types

• Passive Measurements
  - Registry data
  - Routing Information System (RIS)

• Active Measurements
  - APNIC Google ad measurements
  - Google IPv6
  - Cisco IPv6
  - Maxmind IPv6 geolocation
  - Alexa
Overview of Internet Data

• Three basic layers of Internet Data
  - Registry data
  - Routing data
  - Flow data
Registry Data

- Whois
- Maintained by the RIRs
- Public and private part of registry
- RIPE NCC: 14000+ members
Registry Data

• Application of registry data

https://stat.ripe.net/widget/abuse-contact-finder
Routing Data

• RIS

- The RIPE NCC has been collecting BGP information since 1999
- 18 collectors
- 160+ full-feed peers
- http://ris.ripe.net
Routing Data

• Application of RIS data

https://stat.ripe.net/SY#tabId=routing
Flow Data

• RIPE Atlas
• Largest network for Internet measurements
• 9000+ probes
• 50000+ networks on the Internet (measured with RIS)
• Coverage: ~ 6% of all IPv4 networks
Flow Data

- Application of Atlas data
Discussion

Questions

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