SAACC Meeting

AmLight measurement infrastructure

Santiago

17/04/2019
AmLight Backbone (04/2019)
Currently

- **Existents nodes:**
  - Miami, São Paulo, Santiago, La Serena

- **Nodes being deployed:**
  - Panamá (in partnership with CLARA)

- **Softwares in use:**
  - Perfsonar-centralmanagement (archive, visualization)
  - PWA (web tool to manage all the tests)
  - Perfsonar-testpoint

- **Approach:**
  - Tests run in a point to point fashion (it’s possible to get information regarding every single link)
Tests specifications

- **OWAMP**
  - Metrics:
    - One-way loss
    - One-way delay

- Latency (RTT)

- Bandwidth
Visualization

URL: https://dashboard.ampath.net
Visualization: loss
Visualization: bandwidth
NetSage and AmLight measurements

NetSage retrieves data from AmLight perfSONAR infrastructure and print them on its portal:

https://portal.netsage.global/grafana/d/000000005/latency-patterns

This is an excellent way to visualize tests results, since the interface is friendly.
NetSage and AmLight measurements

Latency:
NetSage and AmLight measurements

Loss:

This is a carpet plot for the Losses data across IRNC links. The plot is designed to allow NetSage users to easily spot patterns over long periods of time. The horizontal axis represents days and the vertical axis represents time of day. Darker squares show larger data transmission losses at those hours.
NetSage and AmLight measurements

Bandwidth usage:
Thank you!

Rodrigo Pescador / RNP
rodrigo.pescador@rnp.br