World IPv6 Day Update

NANOG52

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Overview

Statistics

Measurements

Support requests

Preparations

Content

Observations

Reminders

Statistics

- Traffic
  - Protocol 41 – traffic tripled
    - Sustained higher levels post W6D
  - 6to4 - over 50% increase
    - Higher post W6D with fluctuations
  - Teredo – largely unchanged
    - Comcast has not deployed any Teredo infrastructure

Comcast

Statistics (continued)

- Traffic
  - Native IPv6 – ~6x increase during W6D, ~10x post W6D
    - Consistently higher post W6D
  - 6rd – ~2x increase during W6D, fluctuating post W6D
  - Enterprise native – over ~10x increase at peak (only where native dual stack is deployed)
    - ISATAP - ~2x increase

Comcast

Statistics (continued)

- DNS
  - Post W6D non-trivial subset of participants are still publishing AAAAs
  - Caching AAAA query volumes minimally fluctuated during W6D

Measurements

- test-ipv6.comcast.net
  - ~4x increase in the # of tests executed on W6D
  - Preliminary analysis suggested dual stack IPv4 case failure rate was higher than expected

Support requests

- Call center volumes were generally lower or typical
  - No out of the ordinary increases
- One email support request to received during W6D

Preparation

- Complimentary Apple upgrade kits were sent to users that had questionable test-ipv6 results
- Problem test-ipv6 cases were queued for follow up and resolution

Content

- Comcast.net content available over IPv6 for W6D
  - No AAAAs for www.comcast.net
  - Worked well, no issues reported to date
  - Analysis ongoing

Observations

- Thank you ISOC
- W6D was largely uneventful and successful
- More IPv6 traffic was expected
- Minor adjustments identified

Reminders

- NOGLab
  - Please visit and check out NANOG52 NOGLab
  - Register for giveways
- Comcast IPv6 Trials
  - Seeking more trial users around Denver metro, please contact me

Thank you

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