Mythbuster-ing P2P Traffic Localization

draft-irtf-p2prg-mythbustering-01

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77th IETF Meeting
draft-*-mythbustingering

• A container for discussions of possible effects of P2P traffic localization
  • Source: various meetings and mailing lists
• A collection of relevant references

• Relation with the ALTO WG
  • IETF defines a protocol for imparting preferences
  • IRTF investigates how to make the best use of it
    – Both on the provider and on the application side
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• Organized as a collection of:
  • Myth
    – Facts
    – Discussion
    – Conclusions

• Intended as a community effort

• Intention was to keep it alive for a while and track discussions/advances in the field
Progress since Stockholm

- Adopted by the RG
  - draft-irtf-p2prg-mythbusting
- Good feedback from the group:
  - Fixed several errors/imprecisions (there are certainly still many)
  - Aligned with updates from INRIA
    - Those folks are pretty active, if you are aware of others please point them here
- Added a fact/reference matrix
Way forward

• Research-wise editors of the draft are at mediocre at best
  • Substantial improvements are totally in your hands
• We'll update the document as long as we get input
• Then?
  • Publish, as state-of-the-art
  • Forget
How can you contribute?

- Suggesting new Myths
- Suggesting new Facts (and references)
- Bug-fixing
Myths (to date)

- Reduced Cross-domain Traffic
- Increased Application Performance
- Increased Uplink Bandwidth Usage
- Impacts on Peering Agreements
- Impacts on Transit
- Swarm Weakening
- Improved P2P Caching
Facts (to date)

[Xie] Xie, H., Yang, Y., Krishnamurthy, A., Liu, Y., and A. Silberschatz, "P4P: Explicit Communications for Cooperative Control Between P2P and Network Providers"


[LeBlond] Le Blond, S., Legout, A., and W. Dabbous, "Pushing BitTorrent Locality to the Limit"

[Choffnes] Choffnes, D. and F. Bustamante, "Taming the Torrent: A practical approach to reducing cross-ISP traffic in P2P systems"

[Seetharaman] Seetharaman, S., Hilt, V., Rimac, I., and M. Ammar, "Applicability and Limitations of Locality-Awareness in BitTorrent File-Sharing"

# Myths/References/Facts Matrix

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<th>[Xie]</th>
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