Measuring IPv6 adoption in South Africa

African Peering and Interconnection Forum
25 – 27 August 2015
Maputo, Mozambique

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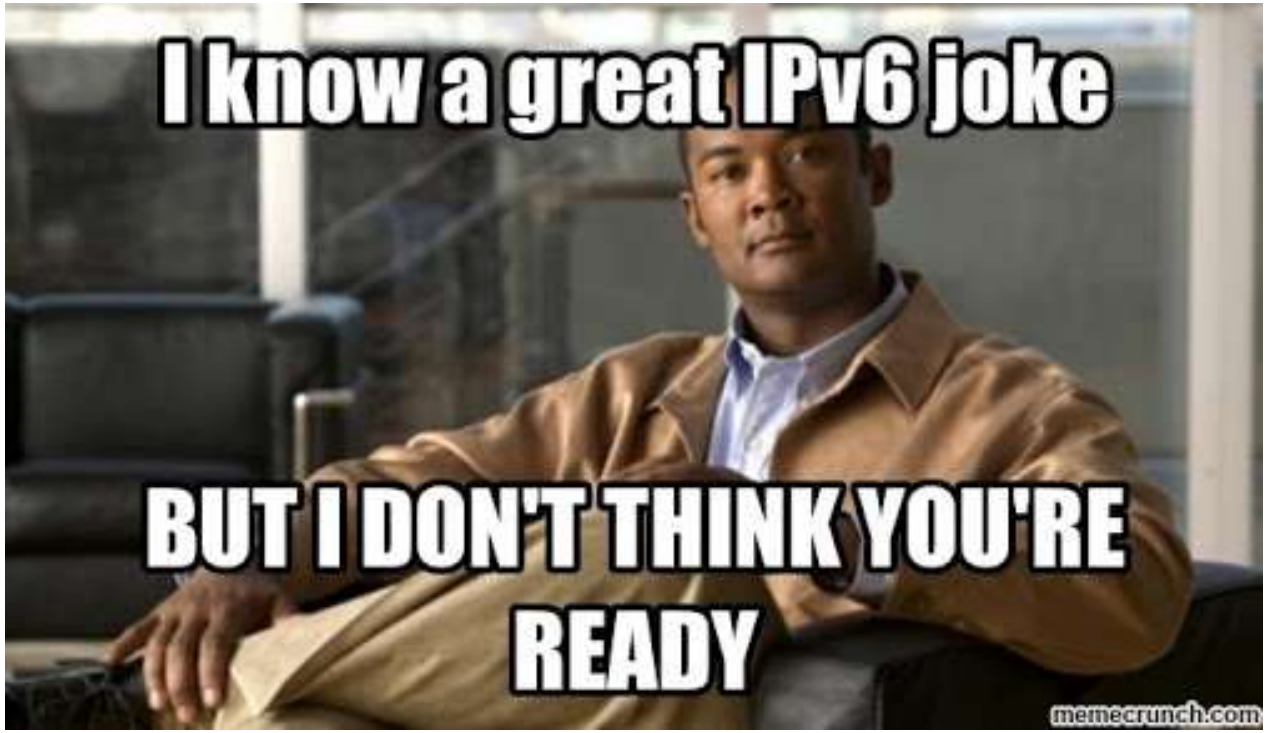
Talk Outline

- IPv6 overview
- IPv6 adoption in South Africa
- IPv6 traffic levels in South Africa
- Questions

IPv6 Overview

- IPv6 formalised by IETF in 1998
- All RIRs (except AfriNIC) on IPv4 life support
- Conservative estimate of internet users in South Africa:
  - 18.5 million in 2015
  - 24.5 million by 2020 (30% growth)

IPv6 adoption in South Africa



IPv6 adoption in South Africa

- Growth of global IPv6 traffic speeding up

- Native global Google IPv6 traffic:
  - January 2014 2.5%
  - January 2015 5.3%
  - July 2015 8.06%

IPv6 adoption in South Africa

- Adoption in South Africa has been slow

- Akamai IPv6 requests (as % of IPv4):
  - United States 20% (3rd)
  - Ecuador 5.1% (17th)
  - South Africa 0.2% (41st)

IPv6 adoption in South Africa

- What can be done to speed up adoption in South Africa?

- Predominant barriers of adoption:

Lack of knowledge

  - Answer: AfriNIC training

Commercial impact / Awareness

  - Answer: Free 100 Mbps IPv6 transit

IPv6 traffic levels in South Africa

- Has offering free IPv6 and training had an impact on traffic levels?

- IPv6 traffic increase: NAP Africa
  - Aug 2014: 10 IPv6 peers, 2 Mbps peak
  - Aug 2015: 55 IPv6 peers, 664 Mbps peak

- Over 100% growth in NAP Africa traffic and peers in the last 3 months

Questions

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