

IPv6 Day Recap

Time to get moving



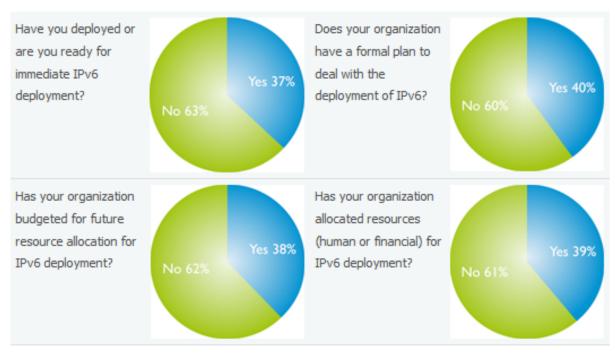
- Only 10.5% of networks are currently running IPv6⁻¹
- Gartner estimates it will cost companies 6% of their annual IT budget to change their IT environment from IPv4 to IPv6²
- Yet few companies are actually ready for IPv6

- 1. http://bgp.he.net/ipv6-progress-report.cgi
- 2. http://www.zdnet.co.uk/news/networking/2011/01/13/google-facebook-to-trial-ipv6-access-on-key-domains-40091424/

Local & Regional IPv6 Deployment



Status of IPv6 deployment in the APNIC region

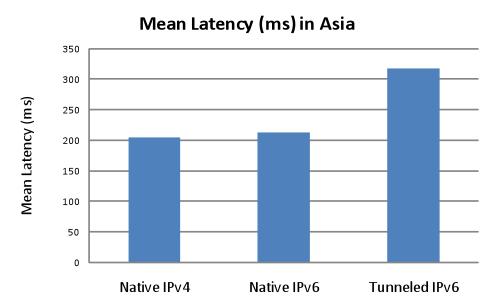


http://www.apnic.net/community/ipv6-program/apnic-and-ipv6

Comparing Latency Over IPv4 & IPv6



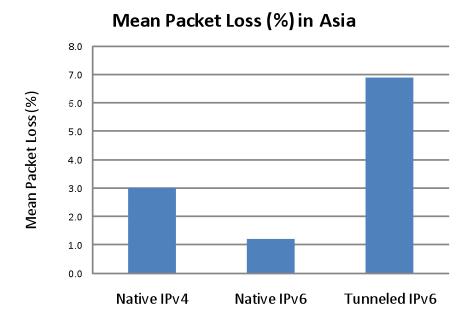
- Akamai pinged 6,800+ nameservers from three U.S. locations between 4/12/10-12/19/10.
- Mean latency over native IPv6 slightly higher than native IPv4
- Mean latency over tunneled IPv6 connections is much higher



Comparing Packet Loss Over IPv4 & IPv6



- Globally, measured packet loss over IPv4 is less than over IPv6.
- In Asia, mean packet loss is higher over native IPv4 to nameservers w/ native IPv6 interfaces.
- Mean packet loss over tunneled IPv6 connections is much higher.



Problems found, Future plans



- Problems
 - Essentially none once things started
 - All problems were on prep, but everything got handled
- Future Plans
 - Essentially no change
 - IPv6 is major initiative in Akamai
 - Customers are on v6 today, we expect that to continue and grow

Obligatory Akamai Infrastructure Slide



IPv6 On The Akamai Global Internet Platform

- 727 nodes
- 125 cities in 43 countries
- 139 Networks
- 6 Continents

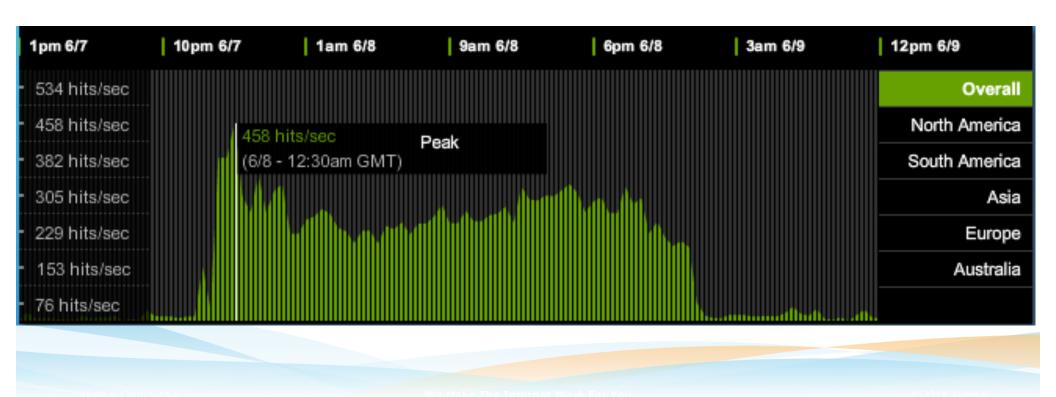
Akamai's Goals for IPv6 Support

- Service requests natively over IPv4 & IPv6
- Provide accelerated delivery despite fragmented IPv6 connectivity & carrier bottlenecks
- Provide IPv6 geolocation capabilities



Traffic on IPv6 Day





Preparing for the Transition

IPv6 "Readiness Template"

Intended to help companies assess & track readiness for IPv6 adoption across the organization

Co-developed by Akamai with other Internet industry leaders

http://www.ntia.doc.gov/advisory/IPv6/



