IPv6 Trends
Worldwide Infrastructure Security Report & Arbor ATLAS
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RIPE66, Dublin
IPv6 Roll-Out Moves Forward

- 80% of respondents either have IPv6 implemented or will do within the next 12 months
  - 24.1% have already **completed** their roll-out

IPv6 Deployment Progress

- 24% Yes, deployment complete
- 54% Yes, deployment in process
- 22% No, but will be deploying soon

Source: Arbor Networks, Inc.
IPv6 Threats and Concerns 2013

IPv6 Security Concerns

- 70% Traffic floods/DDoS
- 62% Misconfiguration
- 53% Inadequate IPv4/IPv6 feature parity
- 51% Stack implementation flaws
- 51% Visibility, I cannot see the data today
- 47% Botnets
- 38% Host scanning
- 23% Subscribers using IPv6 to bypass application rate limiting
- 6% Other

Source: Arbor Networks, Inc.
IPv6 Growth

- Nearly half of respondents only anticipate 20% growth in IPv6 traffic volume over the next twelve months.
- One quarter expect more than 100%.
ATLAS data shows that IPv6 is growing at more than 100% per year, but is still only 0.2% of IPv4 traffic.
Summary for RIPE66

- Arbor sees 45Tbps of IPv4 Globally from 265 Ops
  - About 80 in RIPE
- Less than 1Gbps of Native IPv6 reported from RIPE region
  - across 25 v6 Operators
  - 55 are not reporting any NativeIPv6
- Is this because Instrumentation is not seen as a key part of ‘rollout’?

- WISR
  - http://www.arbornetworks.com/research
Thank You

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