ASI12 Documents

dnsop @IETF66

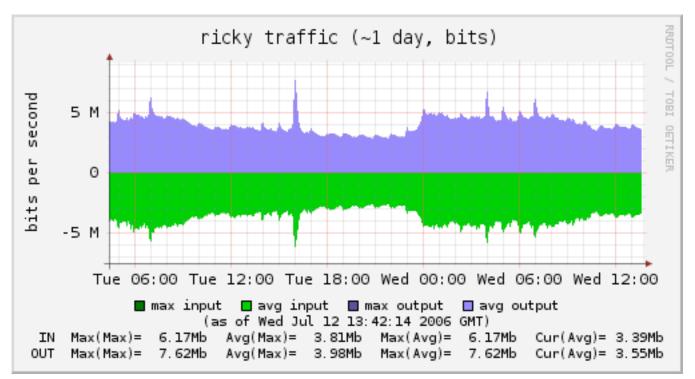
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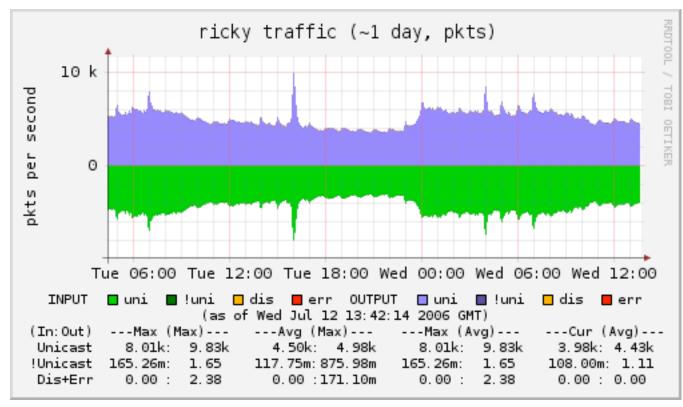
About ASI12

- Authority servers for various site-local IPv4 IN-ADDR.ARPA zones
 - RFC 1918 (10.in-addr.arpa, etc)
 - RFC 3330 (254.169.in-addr.arpa)

About ASI12

- An early exercise in anycast distribution of DNS authority servers
- First nodes deployed in 2002
- Service prefix 192.175.48.0/24 originated in all autonomous nodes from AS112
 - hence the project name





Two Drafts

- There are two individual submissions relating to ASII2:
 - draft-jabley-as I 12-ops-00
 - draft-jabley-as I I 2-being-attacked-helphelp-00
- We are not discussing the content of those drafts here today (but comments by mail or in hallways would be great)

ASI12 Documentation

- There is very little documentation on the ASII2 project
 - little guidance to prospective node operators
 - little information for end users
 - no IANA paper trail, despite the names of the ASII2 servers featuring IANA.ORG

Comparison

- Root nameservers' operational requirements are documented in RFC 2870
- Anycast prefix reserved for use by 6to4 relay routers specified in RFC 3068
- Nothing for AS112

Problem for Operators

- The lack of guidance for operators of existing nodes has resulted in some inconsistency, and little coordination
 - e.g. HOSTNAME.ASII2.NET is hosted by some nodes, but not by others
- The lack of documentation is a strong disincentive to roll out new nodes

Problem for Users

- Many RFC1918-numbered hosts like to send DDNS updates to set their reverse DNS, or look up addresses of their peers/clients
- When these queries leak to the Internet, the replies from ASII2 servers cause confusion (and often some fear and anger)
- The only documentation available is that at <u>www.as I I 2.net</u>, which looks unofficial and skunkworksy

Aside: who gets calls?

- The tech contact for the netblock includes ISC's NOC phone number
 - that whois information is evidently mined by some firewall vendors and presented along with "intrusion" logs
- The reverse DNS for the nameservers features the IANA.ORG domain, and IANA also get calls

Related dnsop Work

- draft-ietf-dnsop-default-local-zones-00
 - these locally-configured zones are good candidates for hosting on ASII2 servers

Open Questions

- Process for requesting that the IANA delegate new zones to ASII2 servers?
- Process for new transports for AS112 nameservers (e.g. IPv6 transport)?

Adoption?

 The authors think it would be a good idea if ASII2 documentation could become a work item for dnsop, and are keen to hear the opinions of the working group.