501 770 J 0606269101 085110014 5000:13be20 5-19FZ:80:119 1:2209:00:00 :095:1095 51-"

RIPE NCC DNS Update

Anand Buddhdev



- Service stable with 17 instances
 - -5 global
 - 12 local (prefixes announced with NO_EXPORT)
- Around 20,000 q/s on average
- More information at http://k.root-servers.org/



K-root member instances

- An idea in development
- Small, single-server instances
- Service for a member network and its customers
- Virtual server, perhaps sharing a physical host with an Atlas anchor
- More information later this year



Other DNS services

- Anycast cluster with two sites
- 5170 zones
 - ripe.net
 - -e164.arpa
 - IPv4 and IPv6 reverse zones
 - -ns.ripe.net
 - several ccTLDs
 - various other small zones
- 120,000 q/s on average, with peaks of 180,000



Other DNS services

- Third site this year
- Server upgrades
 - Extra RAM for increasing zone sizes (DNSSEC)
- All servers running BIND 9
 - We are considering diversity with NSD 4 and Knot





- 125 signed zones
- All except for three have chains of trust
- Uneventful KSK roll-over in November 2012
- 787 secure delegations (641 at RIPE 65)
- Some DNSCurve-style delegations

- nserver: uz53mlpjxf12mg...

- nserver: uz5j8kz3j7blzw...



ENUM (e164.arpa)

- 52 delegations (no change since RIPE 65)
- 6 signed delegations
- Around 5 q/s at our server



- Measurements using Atlas probes
 - Anchors and a random selection of user probes
- Control panel to define:
 - -Zone
 - Name servers and IP addresses
 - Query types (SOA, hostname.bind, id.server)
 - Transport (UDP, TCP)
 - Traceroutes
 - NSID (RFC 5001)



New DNSMON

- Better graphs
- Raw data available
 - Atlas user-defined measurement
- <u>http://roadmap.ripe.net/dnsmon/</u>
- Pilot in Q3 2013 with some users
- Production planned for Q4 2013
- Current DNSMON is still running as a service



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Home I Welcome Andreas Strikos I Logout

1. Domain 2. Servers 2. Measurements 3. Confirmation

- If you enter a domain below:
 - it will be used for SOA record measurements that you specify.
 - we will automatically try to work out which nameservers to target.
 - you will be able to remove automatic nameservers and add custom ones.
- If you don't enter a domain below:
 - you will be asked to specify nameservers manually.
 - you will not be able to specify SOA measurements.

Domain: se





1. Domain

2. Measurements

3. Confirmation

- The following servers will be used as the measurement targets.
- You can add custom servers using the "Add" button.

2. Servers

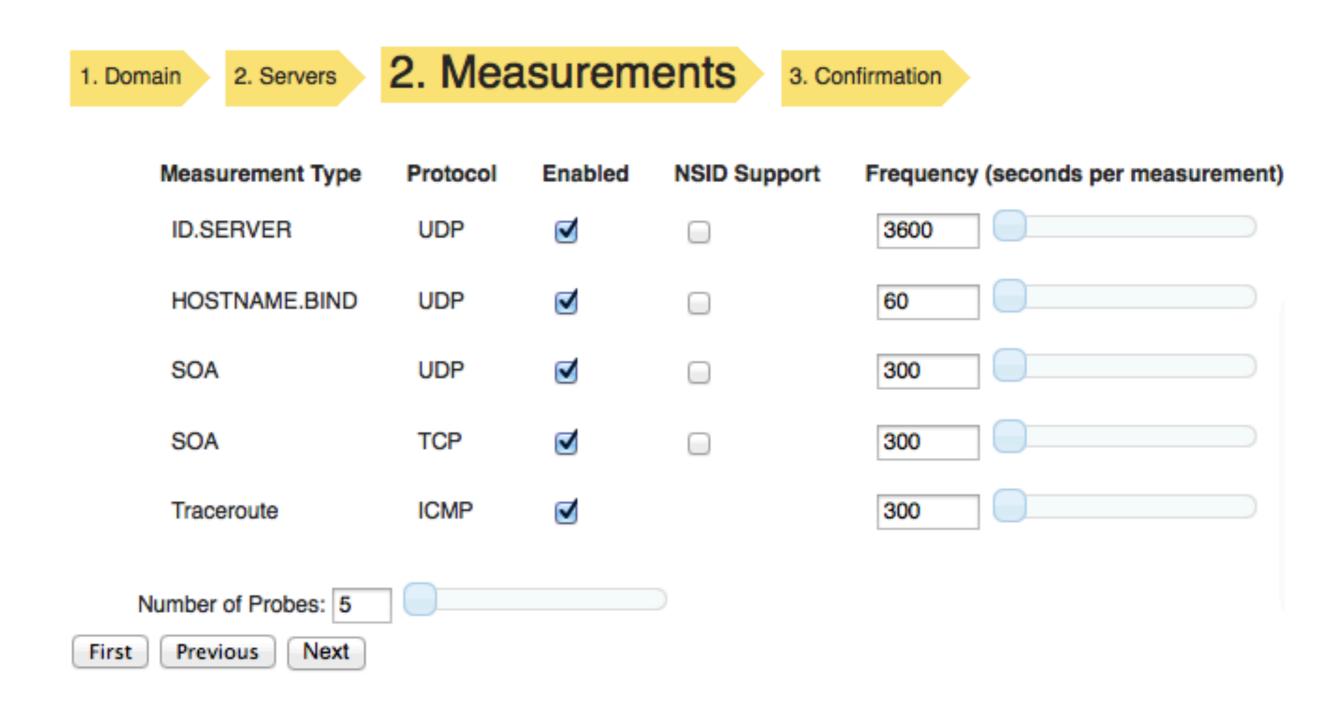
You need at least one server to start measurements.

Server	Hostname	Include?
81.228.8.16	d.ns.se.	
81.228.10.57	e.ns.se.	
130.239.5.114	g.ns.se.	
192.36.133.107	b.ns.se.	
192.36.135.107	c.ns.se.	
192.36.144.107	a.ns.se.	
192.71.53.53	f.ns.se.	
194.146.106.22	i.ns.se.	
199.254.63.1	j.ns.se.	
2001:500:2c::1	j.ns.se.	
2001:67c:1010:5::53	i.ns.se.	V
2001:67c:254c:301::53	b.ns.se.	
2001:67c:2554:301::53	c.ns.se.	
2001:6b0:e:3::1	g.ns.se.	
2a01:3f0:0:301::53	a.ns.se.	
2a01:3f0:0:305::53	f.ns.se.	

(custom server)

Add







1. Domain

2. Servers

2. Measurements

3. Confirmation

By clicking "Confirm" below you will create the following measurements:

- SOA (UDP)
- HOSTNAME.BIND (UDP)
- ID.SERVER (UDP)
- SOA (TCP)
- Traceroute (ICMP)

using 5 probes, targetting the following servers:

- 81.228.8.16
- 81.228.10.57
- 130.239.5.114
- 192.36.133.107
- 192.36.135.107
- 192.36.144.107

Questions?



