



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC DNS Update

Anand Buddhdev | May 2017 | RIPE 74



K-root

AS 25152

Status



- Expansion continues
 - 52 instances (5 core, 47 hosted)
- Updated to CentOS 7
 - Better performance, tools and ease of management
- Upgrade core sites to 10G connections
 - Better DDoS resilience



Authoritative DNS

AS 197000

Reverse DNS Outage 2017-03-16



- A bug in a script published empty zonelet files
- RIPE region delegations removed from ARIN- and APNIC-operated zones
- Zonelets are pulled, rather than pushed, so recovery took longer
- Discussion on-going with other RIRs to improve the zonelet exchange mechanism



Zonemaster

What and Why



- We have been using DNScheck
 - Project has been abandoned
- Zonemaster is a similar system, but better
 - Well-defined test specification
 - Modular design, allowing for better scaling
 - Bigger team of developers at AFNIC and .SE

Transition Plan



- WHOIS release 1.89 uses Zonemaster
- Deployed to release candidate environment on 4 May 2017
- After RIPE 74, WHOIS 1.89 will move to production

Effect on Users



- Zonemaster can handle newer DNSSEC algorithms
- Human-readable error messages will be a bit different
- Users can check domains with the RIPE NCC's instance at:
 - <https://zonemaster.ripe.net/>



ccTLD Secondary DNS

RIPE 663

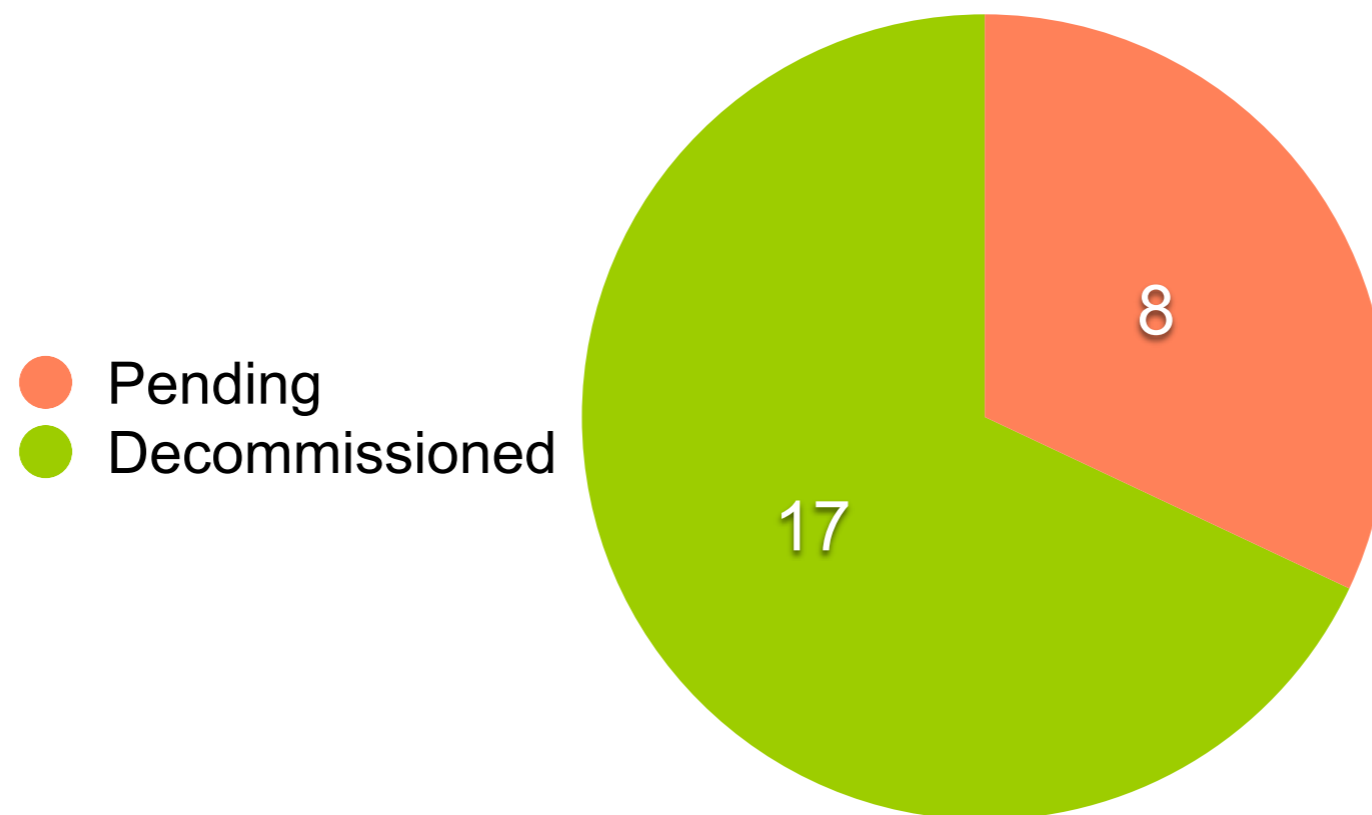


- Defines criteria for a ccTLD to receive secondary DNS service
 - Zone size
 - Name server diversity
 - Use of commercial secondary DNS providers

Evaluation from May 2016



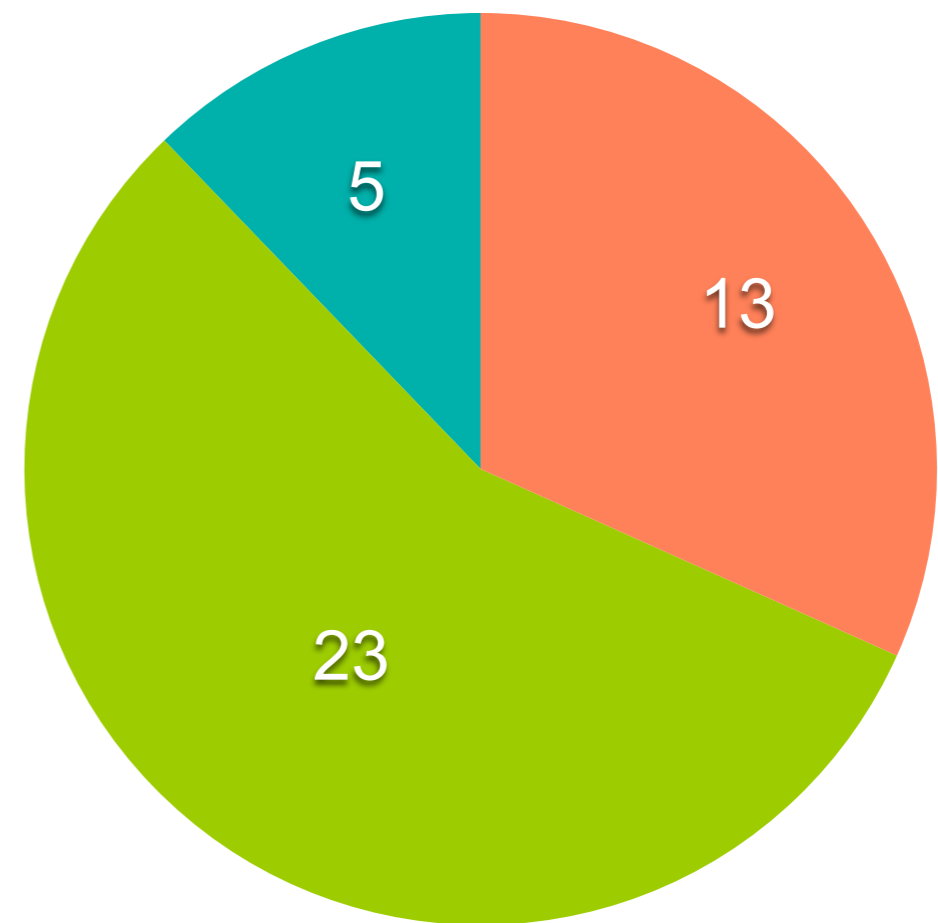
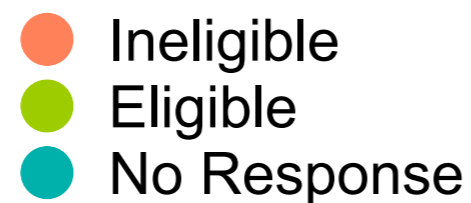
- 25 ccTLDs had zones with more than 10,000 delegations
- We gave them one year to stop using our services



Evaluation Questionnaire



- The remaining 41 ccTLDs were sent a questionnaire
 - Commercial contracts
 - Name server diversity



DNS Update on RIPE Labs



<https://labs.ripe.net/Members/kranjbar/ripe-ncc-technical-services-2017-part-two-focus-on-dns>



Questions



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