

BIND 10 Sponsorship

Shane Kerr <shane@isc.org>

RIPE NCC

Amsterdam, 2009-11-02



Presentation Outline

- Background & Motivation
- What BIND 10 Will Offer
- Overall Plan & Status
- How Sponsorship Works
- Why RIPE NCC Should Sponsor BIND 10

Background & Motivation



Where Did BIND 9 Come From?

- Designed to solve BIND 8 problems
- Heavy emphasis on security
- Reference implementation for DNS



Motivation for BIND 10

- BIND 9 is almost 10 years old
- Computing world has changed
- Networking world has changed
- DNS software “marketplace” evolved
- Need a new architecture for the next 10+ years



What BIND 10 Will Offer



BIND 10 Technologies

Architecture & Design:

- Modularity
- Well-defined APIs and libraries
- Full runtime control

Features:

- Customization
- Resilience to failures
- Cluster support

Overall Plans & Status



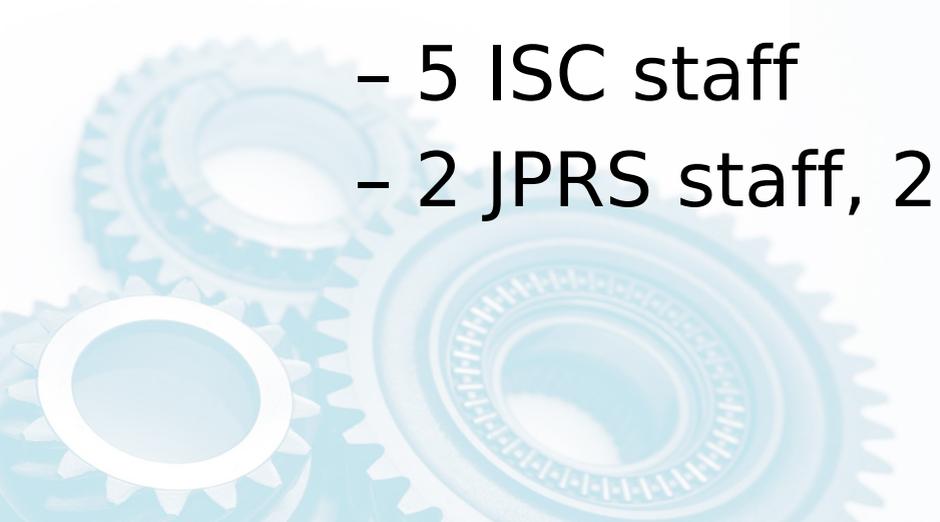
BIND 10 Timeline (DNS)

- Year 1: Authoritative-only server
- Year 2: Recursive server
- Year 3: Fully functional server
- Year 4: Drop-in BIND 9 replacement
- Year 5: *Really* fun stuff



Development

- BIND 10 development is *public*
 - <https://bind10.isc.org>
 - bind10-dev@lists.isc.org
 - Public Subversion repository
- BIND 10 team coding away
 - 5 ISC staff
 - 2 JPRS staff, 2 CNNIC staff



Status

- Building blocks in various states:
 - DNS message API
 - c-channel API & daemon
 - Configuration API & daemon
 - Statistics API & daemon
 - Administrator command-line tool
- Toy server built last week
 - Domain parking lot

How Sponsorship Works



Funding & Oversight

- BIND 10 Funding in a separate account
- Funding mostly done through formal “Grant Agreements”
- Quarterly reports published
- Steering Committee oversees project



Sponsorship

- ISC sought funders for BIND 10
- Generous sponsors provided initial funding
 - <https://www.isc.org/bind10/sponsors>
- Sponsorship has minimum level
 - Donation of any amount appreciated
- Initial sponsors form BIND 10 Steering Committee

Steering Committee

- Insures that ISC does what it promised
 - “Not how money is spent,
but that it is well-spent”
- Mailing list, quarterly meetings
- 10 initial sponsors guaranteed position on committee
- 5 additional seats for other sponsors
 - Voted by permanent members, 1 year

Why RIPE NCC Should Sponsor BIND 10



The Internet Needs DNS

- BIND used by 80% of DNS servers
 - Not 80% of domains, or 80% of users, ...
- High-quality DNS good for everyone
- Open-source DNS good for the industry
 - Domain holders, ISPs



The RIPE NCC Uses DNS

- Mix of DNS today
 - K root, reverse, ENUM, RIPE.NET
- Diversity in implementation remains a good goal
- High quality clients & resolvers help authoritative users
- BIND 10 sponsors are all TLDs
 - NCC has different view

The RIPE Region Uses DNS

- DNS is a necessary building block for Internet users everywhere
- Flexible, modern DNS important for new users and services

