

BIND[89] ROADMAP



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The Nominum/ISC Relationship

Internet Software Consortium

- ❑ not for profit
- ❑ does "good works for Internet community"
 - provide open source implementations of useful protocols
- ❑ collects money from industry & government

Nominum

- ❑ "the BIND company" - djb
- ❑ for profit
- ❑ contracted by ISC to develop BIND9
 - Nominum is by far the biggest contributor to BIND9
- ❑ sells support, training, consulting and support
 - also has proprietary technology

BIND Release Engineering

Release Numbers BIND X.Y.Z

- X
 - major restructuring
 - redesign or rewrite
 - BIND9 and BIND8 have little to do with UC Berkeley!

- Y
 - significant new features/functionality
 - protocol extensions

- Z
 - minor release numbers
 - essentially minor bug fixes
 - security patches

BIND8

- 8.2.5 Oct 1st 2001
 - bug fix release
- 8.3
 - IPv6 supporting resolver
 - IPv6 addresses in /etc/resolv.conf
 - maybe remove DNSSEC stuff
 - alpha release Oct 1st 2001

BIND9 Release Schedule

9.1.?

no plans for further releases

9.2.0

real soon now!

release candidate 5 this week

New Stuff in BIND 9.2

- AAAA synthesis
 - on-the-fly AAAA answers
 - save resolvers from following A6 records (yay!)
- new config file parser
 - much smaller, no keywords
- extra config file options

More New Stuff in BIND 9.2

- NT 4.0 port
- new command/control API
 - OMAPI dies (rejoice!)
- revised rndc
 - lots of extensions
 - uses new control API

New features in rndc

better zone maintenance

- ❑ per-zone and per-view reloads
- ❑ per-zone and per-view refreshes

cache management

- ❑ per-view cache flushing

query logging

statistics

- ❑ not yet as comprehensive as BIND8

Even More New Stuff in BIND9.2

- cache size limitation
 - graceful handling of RAM usage
- IPv6 resolver support
 - drop in of BIND8.3 resolver library
- better man pages
 - installed by default
 - use GNU-style macros

More BIND 9.2 Features

- Test suite enhancements
 - extra regression tests
- Capacity testing tools
- Performance testing tools
- Performance enhancements
 - should be as fast as BIND8
 - 3000+ queries/second

BIND 9.3

- planned for ???
- support for GSS-TSIG
 - interoperability with W2K & Active Directory (spit!)
- more performance improvements
- Internationalised Domain Names
 - subject to IETF standardisation
- Principles of Operation/Architecture documentation
- new DNSSEC stuff?
 - DS, opt-in

Future Directions

- BIND8 is effectively dead
- BIND9 is just about done.....
 - 9.3 fulfills contractual obligations
- **community needs to get involved:**
 - future enhancements
 - protocol extensions
 - funding for ISC

QUESTIONS?