

# **BIND 10 Administrator Interface Information Gathering Session**

**CNNIC**

Beijing, Nov '09



# Agenda

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- Welcome and Introductions
- BIND 10 Introduction and Status
- BIND 10 Administrative Interface Plans
- Questions for You



# BIND 10: Introduction

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- BIND 10 is a major departure from BIND 9, though it will also be a reference DNS implementation. It is evolving with the following design ideas...
  - Modularity
  - Well-documented & defined APIs and libraries
  - Customization
  - Clusterization
  - Resilience to failures
  - Full runtime control

# BIND 10: Status

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- Project officially began 2009-04-01
- Funded by sponsors
  - initial set of generous TLDs:  
*<https://www.isc.org/bind10/sponsors>*
- 5-year development plan
- Y1 deliverable: authority-only server
- Public Trac site for interested developers or users: *<https://bind10.isc.org>*

# Administrative Interface Plans

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- The issue of the day....
- We need to come up with a way to  
**\*control\*** BIND 10



# What we have done -- BigTool

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- A command line interface
- Command syntax
  - `<module_name> <command_name>`  
`[param1 = value1 [, param2 = value2]]`
- Examples
  - `zone set zone_name = "example.com.",  
master = '108.201.112.21'`
  - `log change_level module = "query", level =`  
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# What we have done -- BigTool

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- Features have done:
  - Auto tab complete
  - Convenient help system
  - Intelligent error detect
  
- There is one demo:



# Administrative interface plans

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- We're currently leaning toward more of a change-things-at-runtime model than a traditional UNIX daemon
- Two modes for configuration
  - As BIND9, BIND10 starts up based on configure file
  - BIND10 manages all the configuration.Which one you prefer, or any other ideas?



# Administrative interface plans

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- Do you want BIND10 merge all the tools like dig, nsupdate, rndc, DNSSEC related (dnssec-keygen, dnssec-signzone etc) into one tool and use uniform syntax?
- For command line tool, except the interactive mode, saving some commands into one file then execute them as a whole, is it a good idea?



# Tools

Please rate the relative importance of :

- Command line tools
- GUI tools
- Web tools

And comment on requirements for each.

Do you expect to have custom tools? What specific requirements do you have for these?

# Transactions and Versioning

- If you have a set of changes you want to do all at once, in the current BIND 10 design plans, you could do it as an atomic transaction.
  - how would you want this presented?
  - is it important to have more than one version?
  - is version maintenance important?

# and ...

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Any other comments?

Thank you so much for your time.

Please make sure we have your contact information, and t-shirt size so we can send you a BIND 10 t-shirt.

