INTERNET SYSTEMS CONSORTIUM

BIND Forum member meeting 2008

Dublin, July 2008

BIND news/releases

- overview of 9.5

- plans for 9.6 and 9.7

- Forgery resilience, with special emphasis on D N S S E C

- BIND 10 status

BIND 9.5 - what's new

- Added new statistics capabilities
  - Mini-http server
  - Sends XML to the client. XSLT provided to view on browser
- GSS-TSIG support
  - Active directory
- Efficient LRU cache cleaning mechanism.
- More efficient ACL handling
- NSID (RFC5001)

Plans for BIND 9.6

- Main new items are
  - NSEC3 support, server/client/toolset
    - Sponsored by Nominet, Afilias
  - Online re-signing
    - Sponsored by Nominet
  - Crypto hardware acceleration support
  - Release around year end/early 2009

Plans for BIND 9.7

- Make it easier to deploy DNSSEC by dealing automatically with the various steps
  - Authoritative servers/zone maintenance
    - Key generation, key storage, key rollover, DS/DLV upload
  - Recursive servers/validators
    - Trust anchor management
    - Debugging tools

Forgery resilience

- Everyone knows about Kaminisky's attack
- What did ISC do?
  - Actively participate in bringing in vendors, evaluate the risk and the response
  - Work on BIND modifications to increase forgery resilience. Mainly UDP port randomisation.

Forgery resilience

- Dual approach
  - Immediate patch to 9.3, 9.4 and 9.5
    - Has performance implications with performance
  - Better performance modification
    - Lots of changes to BIND I/O core
    - We felt required a beta process
    - Beta couldn't be released until patch release date (July 8th)

Forgery resilience

- Update
  - -P2 versions coming out in a few days to improve:
    - socket handling
    - Resource utilisation
    - Ensure UDP queries do not completely take over the server

BIND 10

- Funding progress
  - Initial core of sponsors getting together to discuss details of contract
  - Preliminary work beginning now
  - Effort in earnest after holiday season

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Questions?