Unbound and 5011
ventures in the unknown

Jaap Akkerhuis
Adding Features

- An Internet Draft is started
  - Specifications are unstable
  - Early version as compile time option
- “48 hours” — Feature becomes runtime option
- Standard RFC
  - Default setting
5011 in unbound

- First a separate program
- Incorporated in Unbound 1.4.0 in 2009-11-29
- Uni test framework developed
  - Resulted into a DNS test harness (Deckard) buy nic.cz
    - https://github.com/CZ-NIC/deckard for details
- Incremental changes (bug fixes)
  - Nothing essential changed
Accelerated testbeds

• Rick-roll by Rick Lamb
  – https://icksk.dnssek.info/fauxroot.html

• Keyroller by Warren Kumari
  – http://204.42.252.20

• Needed changes to code to use these testbeds

• Due to timing missed a corner case
  – Starting to do DNSSEC within the 30 day waiting period
  – And doing 5011 at the same
Fixing the 30 day Problem

• Version 1.6.7 relaxes (in that case) the protocol

• Older versions
  – in case this situation occurs, throw away the old KSK
  – Restart the server
Questions?