Getting your root local: draft-wkumari-dnsop-root-loopback

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Problem statement

- Some DNS recursive resolvers have longer-than-desired round trip times to the closest DNS root server.

- Such resolvers can greatly decrease the round trip time by running a copy of the full root zone on a loopback address.

- That's it: we are no longer trying to reduce load on the root servers or other things people objected to in Toronto.

Who might use this

- A recursive resolver operator who has poor round-trip times to their closest root server instance
  - Might be a topology problem
  - Might be a speed problem
  - Might be a reliability problem
- Resolver operators who are having no problems will probably not want to implement this because it adds complexity

Changes from -00

- Fixed a major conceptual problem, pointed out by Evan Hunt
- Showed a working example of how to configure BIND and Unbound/NSD to implement the design

Next steps

- Add more examples?
- Other fixes
- See if the WG wants to adopt this; if not, take it to the ISE