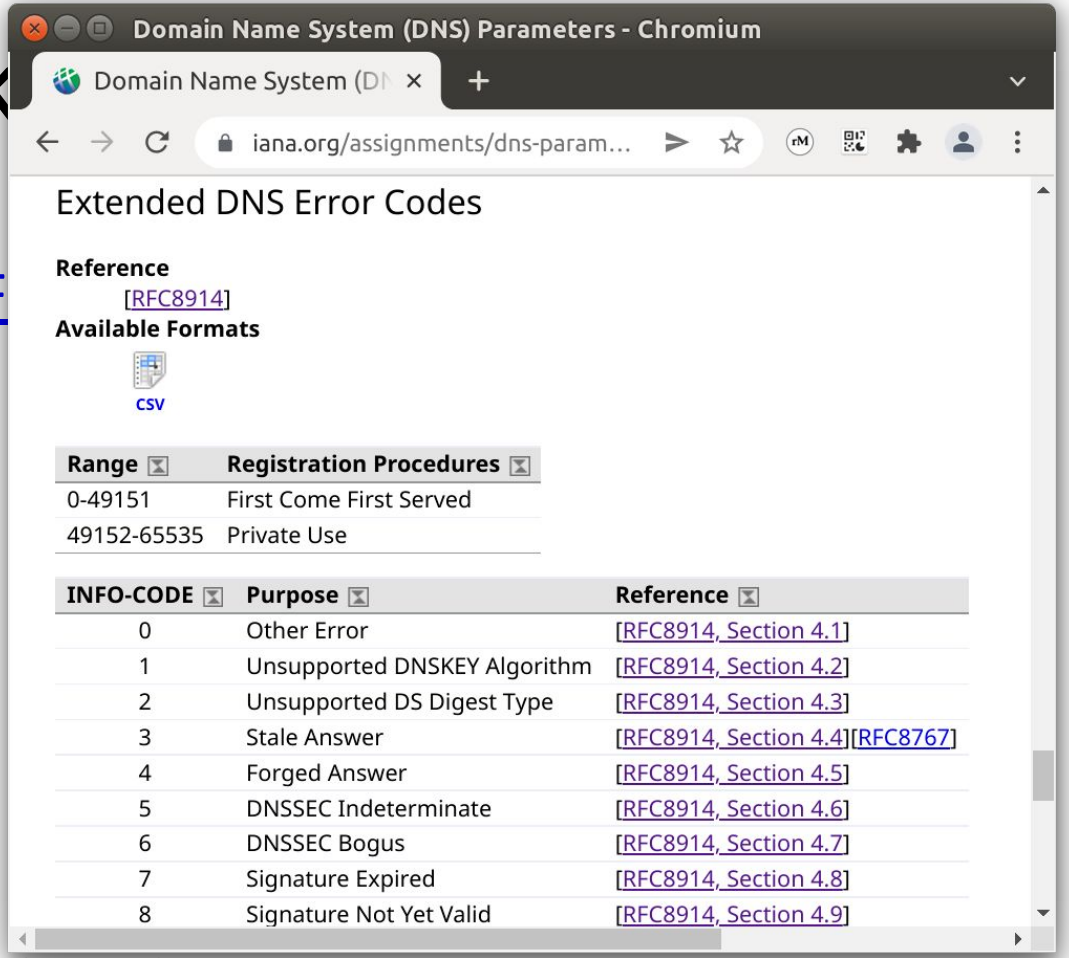
Results from project DNS

IETF 113
19-20 March 2022
Vienna, Austria

Hack

- Extended DNS Errors [RF

  - While implementing
    More situations
    came up

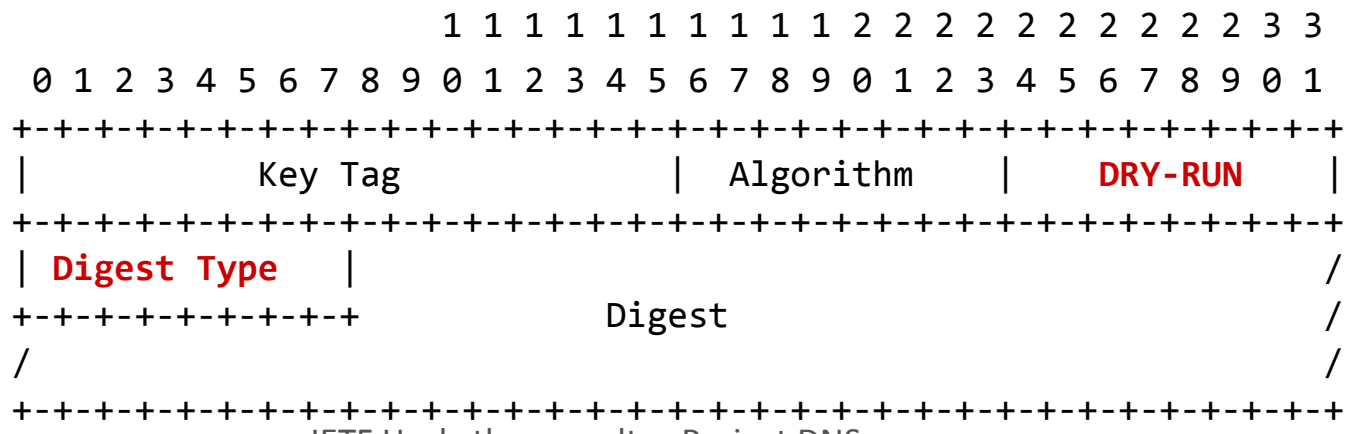


Hackathon Plan

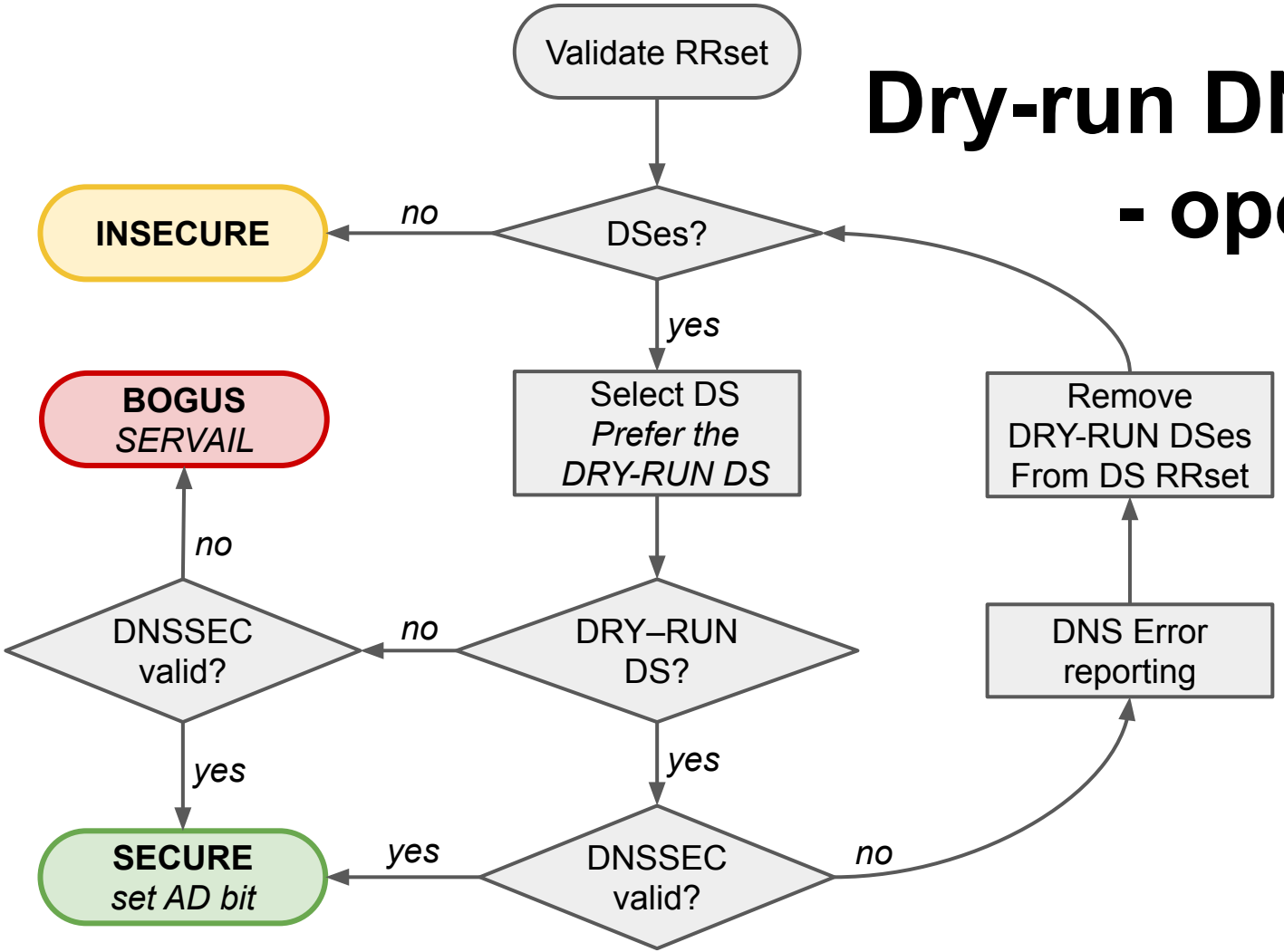
- Extended DNS Errors [RFC8914]
  - While implementing –
    More situations for an EDE info-code emerged
  - Registry if First Come First Served
  - Draft-carpay-extra-ede-codes-dnssec-bogus
- Discussed between Tom Carpay, Petr Špaček, Libor Peltan, and *

Hackathon Plan

- Dry-run DNSSEC
  - Try out DNSSEC for your zone first, before going live
  - draft-yorgos-dnsop-dry-run-dnssec-00
  -

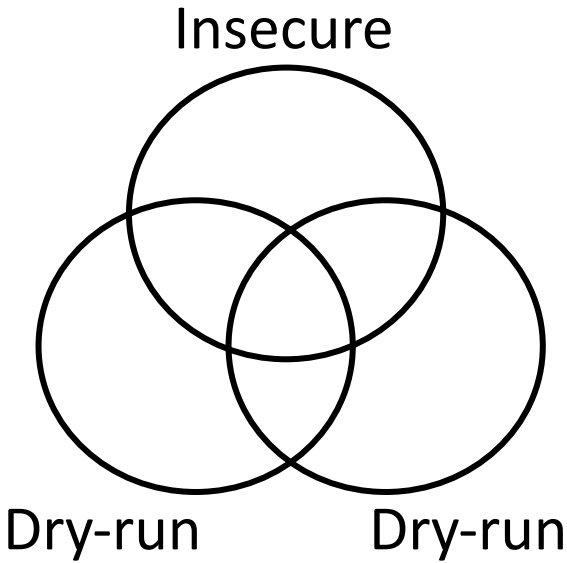


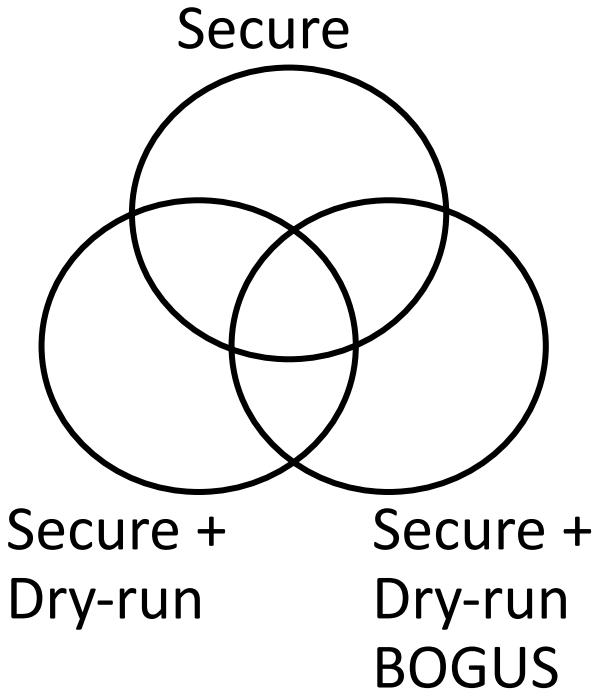
Dry-run DNSSEC - operation



Dry-run DNSSEC

- RIPE Atlas measurements to measure backwards compatibility by Tom Carpay

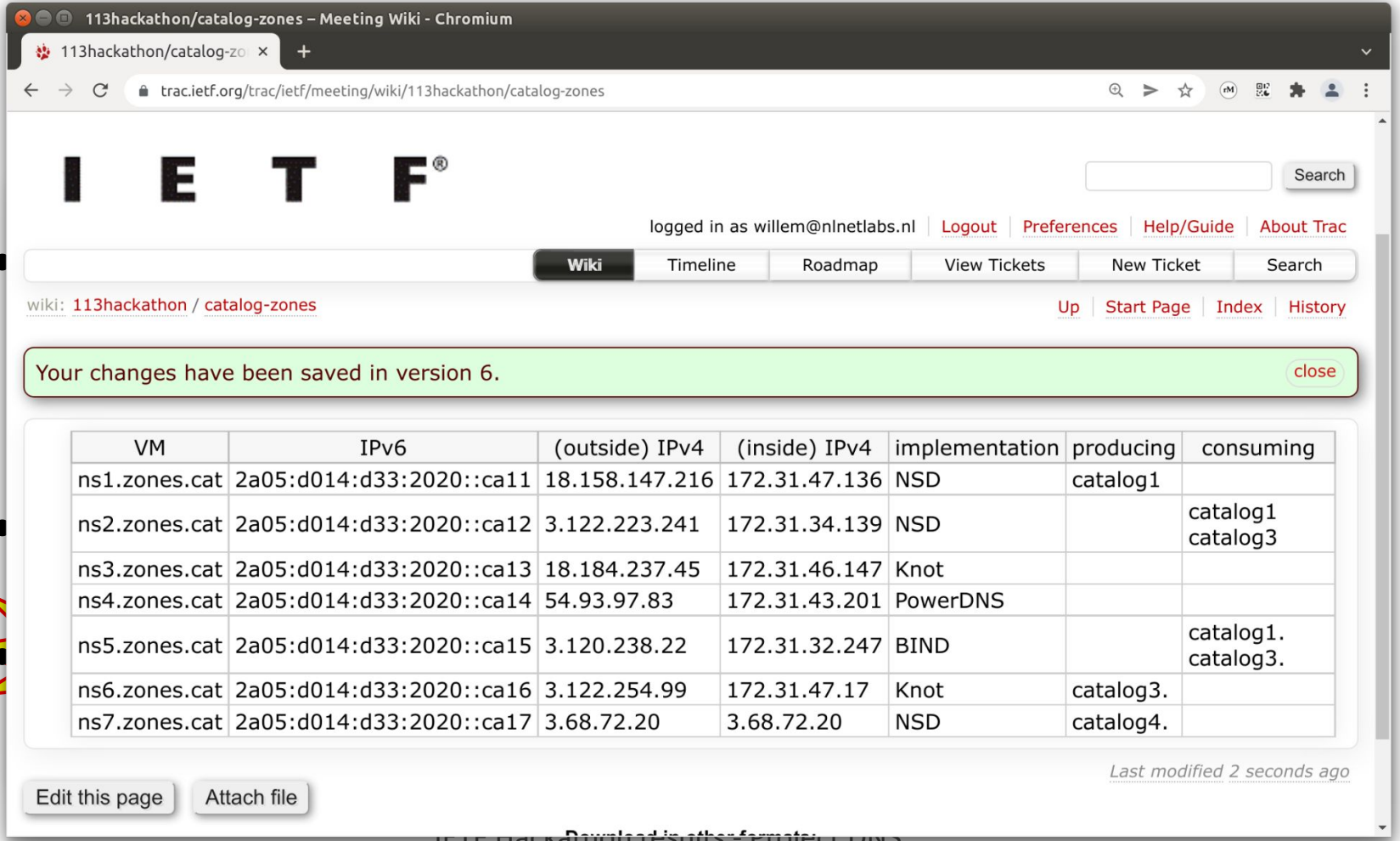




Hackathon Plan

- DNS Catalog Zones
  - draft-ietf-dnsop-dns-catalog-zones-05
- Interoperability testing
- 

BIND implementation for draft version!
  - Petr Špaček, Libor Peltan, Willem Toorop


113hackathon/catalog-zones – Meeting Wiki - Chromium
113hackathon/catalog-zo
trac.ietf.org/trac/ietf/meeting/wiki/113hackathon/catalog-zones
I E T F®
Search
logged in as willem@nlnetlabs.nl | Logout | Preferences | Help/Guide | About Trac
Wiki | Timeline | Roadmap | View Tickets | New Ticket | Search
wiki: 113hackathon / catalog-zones
Up | Start Page | Index | History
Your changes have been saved in version 6.
close
VM | IPv6 | (outside) IPv4 | (inside) IPv4 | implementation | producing | consuming
ns1.zones.cat | 2a05:d014:d33:2020::ca11 | 18.158.147.216 | 172.31.47.136 | NSD | catalog1 |
ns2.zones.cat | 2a05:d014:d33:2020::ca12 | 3.122.223.241 | 172.31.34.139 | NSD | catalog1 catalog3
ns3.zones.cat | 2a05:d014:d33:2020::ca13 | 18.184.237.45 | 172.31.46.147 | Knot | |
ns4.zones.cat | 2a05:d014:d33:2020::ca14 | 54.93.97.83 | 172.31.43.201 | PowerDNS | |
ns5.zones.cat | 2a05:d014:d33:2020::ca15 | 3.120.238.22 | 172.31.32.247 | BIND | | catalog1. catalog3.
ns6.zones.cat | 2a05:d014:d33:2020::ca16 | 3.122.254.99 | 172.31.47.17 | Knot | catalog3. |
ns7.zones.cat | 2a05:d014:d33:2020::ca17 | 3.68.72.20 | 3.68.72.20 | NSD | catalog4. |
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Hackathon Plan

- DNS Dynamic Update over Encrypted Transport (QUIC / TLS)

  a. SERVER SIDE: *BIND 9.18* with DoT + *quiqdoq* as DoQ proxy
  b. CLIENT:
     - *Trust DNS* (Rust impl) - Success using DoT
     - *Dnsjava* - Success using DoT
     - Efforts to integrate QUIC libraries hit problems

- Allison Mankin, Benjamin Fry, Han Zhang, John Dickinson, Pallavi Aras, Sara Dickinson, Shane Kerr, Sidan Qi, Sile Yang

Hackath

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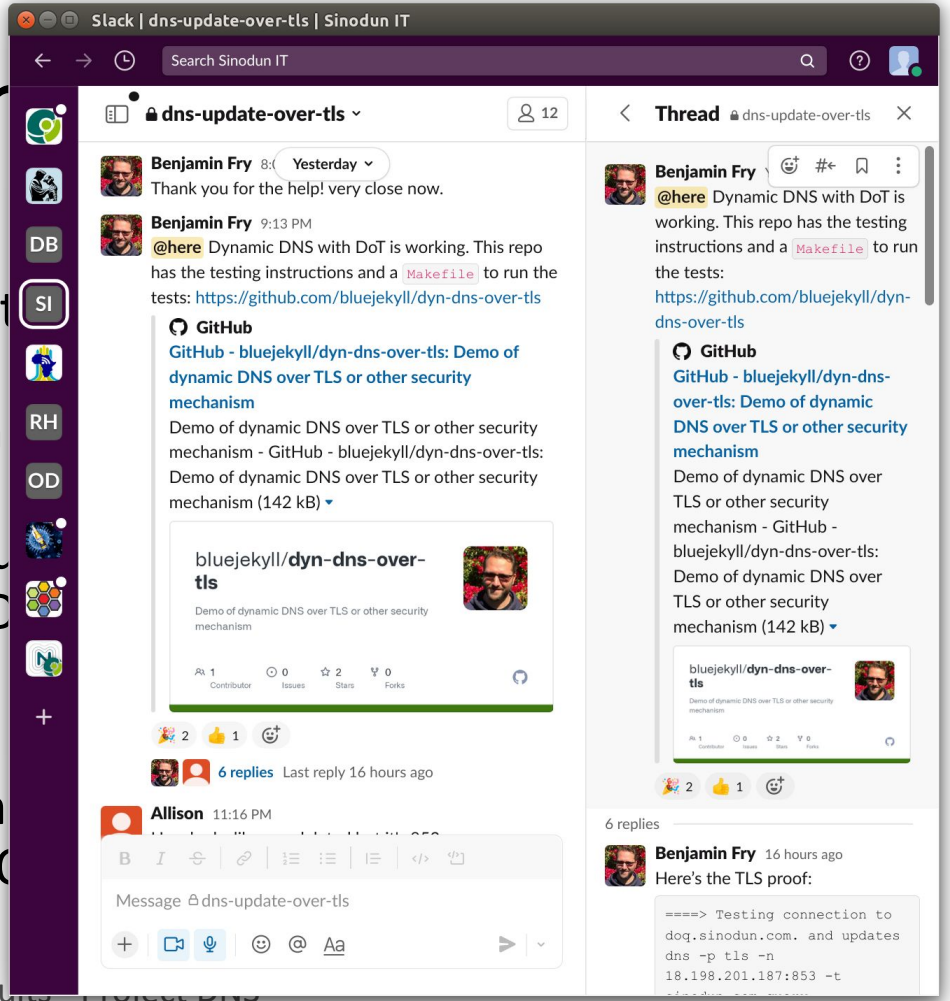
  Sara Dickinson, Shane Kerr, Sidan



qp-trie for NSD

- patches by Tony Finch, July 2021
- small fast DNS name lookup data structure
- discussion between Tony and NLnetLabs
- updated notes on experimental branches

What got done

- Lots and lots of excellent conversation!
- Open Source DNS Software developers align! (Extra EDEs)
- Developers align with operators!

What we learned

- **You can’t beat an in person hackathon!**

Wrap Up

Team members:

Tom Carpay
Petr Špaček
Libor Peltan
Willem Toorop
Allison Mankin
Benjamin Fry
Han Zhang
John Dickinson
Pallavi Arres

John Dickinson
Pallavi Arres
Sara Dickinson
Shane Kerr
Shivan Kaul Sahib
Sidan Qi
Sile Yang
Benno Overeinder
more…