IETF Hackathon results from the DNS table

IETF 117
22-23 July 2023
San Francisco, California

I E T F

Hackathon Plan

- DNS Out Of Protocol Signalling (AKA DNS Oops)
- Handling Encrypted DNS Server Redirection
- Cached servail
    - draft-grubto-dnsop-dns-out-of-protocol-signalling
    - draft-jt-add-dns-server-redirection
    - draft-tjw-dnsop-3901bis
    - draft-ietf-dnsop-caching-resolution-failures

What got done

- Lots of excellent discussions and chit-chat

- Good input for the dnsop tomorrow

- Orientation for our newcomer, Baula Xu, summarizing current IETF work in the DNS Operations Group.

- Introduced Momoka Yamamoto with DNS people.

What got done

- Discussed changes needed to BCP91/RFC3901 around IPv6 guidance for DNS servers.

- Updates to BCP on IPv6 DNS Guidelines

- Based on discussions around draft-momoka-v6ops-ipv6-only-resolver

- Need to address the IPv4-as-a-Service and the crazy world of 6-4-6-4 Translations

What got done

- draft-ietf-dnsop-caching-resolution-failures
- Recommending "resolvers MUST cache resolution failures for at least 5 seconds" is too long.
- In some cases 1 second is a good minimum
- 5 Seconds may be reasonable for an end user
- while 1 second may be more application specific
- Complex backoff algorithms could be used, but....
  - The Camel

What we learned
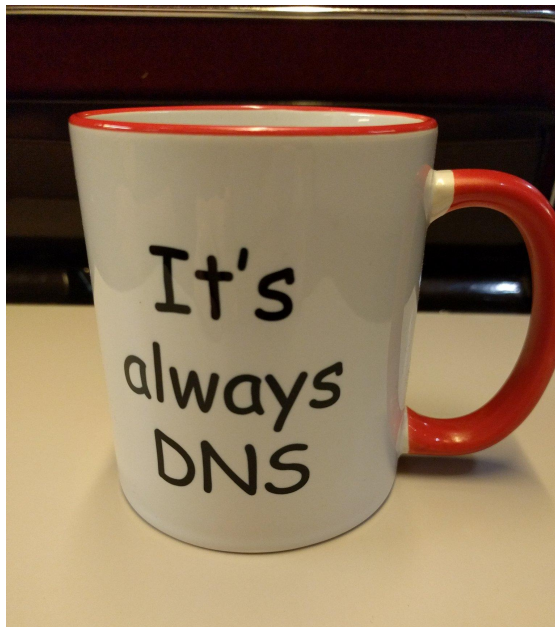
Wrap Up

Team members:

- Mark Andrews
- Evan Hunt
- Shumon Huque
- Joey Salazar
- Werner Staub
- Willem Toorop
- Tim Wicinski

First timers @ IETF/Hackathon:

- Baula Xu