IETF Hackathon
results from
the DNS table

IETF 117
22-23 July 2023
San Francisco, California
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-tiw-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

It’s always DNS
Wrap Up

Team members:
• Mark Andrews
• Evan Hunt
• Shumon Huque
• Joey Salazar
• Werner Staub
• Willem Toorop
• Tim Wicinski

First timers @ IETF/Hackathon:
• Baula Xu