

# It's Always DNS

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# It's Always DNS Themes

Group of DNS software engineers, working on:

- DNS privacy
- DNS protocol improvement
- DNS and services provisioning
- Miscellaneous

# DNS Privacy

- DNS-over-TLS to authoritative (new DPRIVE WG working item)
  - Unbound: set of net blocks + hostname verification
    - Enforce DoT in these cases
    - a.b.c.0/24 do DoT authoritative name server
    - DPRIVE WG activity bootstrapping DoT discovery
- DNS-over-HTTPS (RFC 8484)
  - DoH design for BIND 9
- DNS-over-HTTP/3
  - proof of concept implementation using Quiche
  - work in progress

# DNS Protocol Improvement

- DNS Server Cookies (draft-ietf-dnsop-server-cookies)
  - Updated (bis) specification and implementation of DNS cookies
  - Interoperable implementation between different open source DNS name server software
- Extended error (draft-ietf-dnsop-extended-error)
  - Updated code in Unbound to the latest draft
  - Work in progress

# DNS and Services Provisioning

- Service binding and parameter specification via the DNS (draft-ietf-dnsop-svcb-httpssvc)
  - Previous hackathon implementation of first version of draft in Unbound
  - This hackathon update implementation to match with new & updated version of draft
  - Some feedback for the draft wrt. Implementation details

# DNS Measurements

- New project for metrics of the root server operators
  - correctness of answers from the root servers
  - check the validation of a DNS response
  - extended getdns to return DNSSEC validation chain

# Wrap Up

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