

It's Always DNS

IETF 106
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Singapore



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 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

Team members:

First timers @ IETF/Hackathon:

<Other links, contacts or
notes>