

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
- DNS monitoring

DNS Privacy

- DNS-over-TLS to authoritative (new DPRIVE WG working item) (*Manu Bretelle*)
 - 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) (*Ondrej Sury*)
 - DoH design for BIND 9
- DNS-over-HTTP/3 (*Bernie Innocenti*)
 - proof of concept implementation using Quiche
 - work in progress

DNS Protocol Improvement

- DNS Server Cookies (draft-ietf-dnsop-server-cookies) (*Willem Toorop & Ondrej Sury*)
 - 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) (*Tim Wattenberg & Loganaden Velvindron*)
 - 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) (*Ralph Dolmans*)
 - 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 Monitoring

- New project for metrics of the root server operators (*Paul Hoffman & Willem Toorop*)
 - correctness of answers from the root servers
 - check the validation of a DNS responses from the past
 - new command line tool
getdns_validate_dnssec available on IETF Hackathon GitHub

Wrap Up

Team members:

Manu Bretelle

Ralph Dolmans

Paul Hoffman

Bernie Innocenti

Benno Overeinder

Ondrej Sury

Willem Toorop

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Tim Wattenberg