

IETF Hackathon - cbor4dns

IETF 117

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San Francisco

Hackathon Plan

Progress on application/dns+cbor
encoder/decoder

- CBOR-based DNS message format for smaller messages in DoH and DoC
- Draft: [draft-lenders-dns-cbor](#)
- Python-based implementation [cbor4dns](#)
 - [dnspython](#) for the DNS part,
 - [cbor2](#) for the CBOR part
 - Encoder needed fixing
 - Decoder needed implementing

What got done

Done:

- Encoder (needs larger test vector)
- Finding a lib name (thanks Marco!)
- Going public: <https://github.com/netd-tud/cbor4dns>

Almost done:

- Decoder: mostly done, packed CBOR support missing

What we learned

- Issues with existing draft:
 - Section elision may need rethinking
 - Dedicated specs for pseudo-RRs (e.g. OPT) may be needed
- dnspython
 - Generate DNS message parts (not full messages) is tricky
 - PR required to make private functionality (partially) public

Wrap up

Team members:

- Martine Lenders

Notes and contacts:

- Datatracker:
<https://datatracker.ietf.org/person/m.lenders@berlin.de>
- Github:
<https://github.com/miri64>
- Mastodon:
<https://ohai.social/@miri64>