

# IETF Hackathon - cbor4dns

IETF 117

22-23 July 2023

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>