

# IETF Hackathon

## application/dns+cbor Updates

---

Martine S. Lenders (martine-lenders@tu-dresden.de)

IETF 121, 2-3 November 2024, Dublin, Ireland

Plan: Update `cbor4dns` to `draft-lenders-dns-cbor-09`

- Support more than one question
- Add answer section to queries for Known Answers in mDNS
- Express names as sequence of labels
- Provide dedicated types for more structured RDATA
  - ■ SOA ■ MX ■ SRV ■ SVCB ■ HTTPS
- Add RFC1035-like name compression
- Switching boolean to query message to ask for question present in response
- Make EDNS options a map

# What got done

- Support more than one question
- ✓ Add answer section to queries for Known Answers in mDNS
- ✓ Express names as sequence of labels
- Provide dedicated types for more structured RDATA
  - ✓ SOA ✓ MX ■ SRV ■ SVCB ■ HTTPS
- ✓ Add RFC1035-like name compression
- Switching boolean to query message to ask for question present in response
- ✓ Make EDNS options a map

- Name definition in draft needs note on CBOR-packed representation
- Even if you want to save time

**TEST EVERYTHING!**

- Team Members: Just me 😞
- Need more implementations in different languages!
  - Currently there is only cbor4dns and a RIOT implementation
  - Have a look at `draft-lenders-dns-cbor`