“HTTP” Resource Record for DNS

draft-bellis-dnsop-http-record-00
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TL;DR summary

• “MX” record for web content:

  example.com IN HTTP cdn-host.cdn-network.example.com.

• Allowed at the apex of a zone (unlike CNAME)

• Supports wildcard domain names (unlike SRV)

• Trivial to implement on authoritative servers and web host control panels

• Recursive servers MAY return corresponding A and AAAA records in answers, optionally fetching them first if not in cache

• Compatible with DNSSEC and EDNS Client Subnet
Why I’m Here in HTTP-bis

• There is IMHO no way to provide a CNAME equivalent at the Apex that doesn’t significantly complicate DNS servers, nor that will work nicely with geo-locating CDNs.

• An architecturally correct fix requires a (small) change to web browsers:
  • Look up the HTTP record in parallel with A and AAAA
  • Use the former if found
  • Yes, this means using something other than gethostbyname() or getaddrinfo()
Questions?

Please find me this week, or discuss on http-srv@ietf.org