DNS Embedded Answers

draft-wobbly-dispatch-embedded-answers

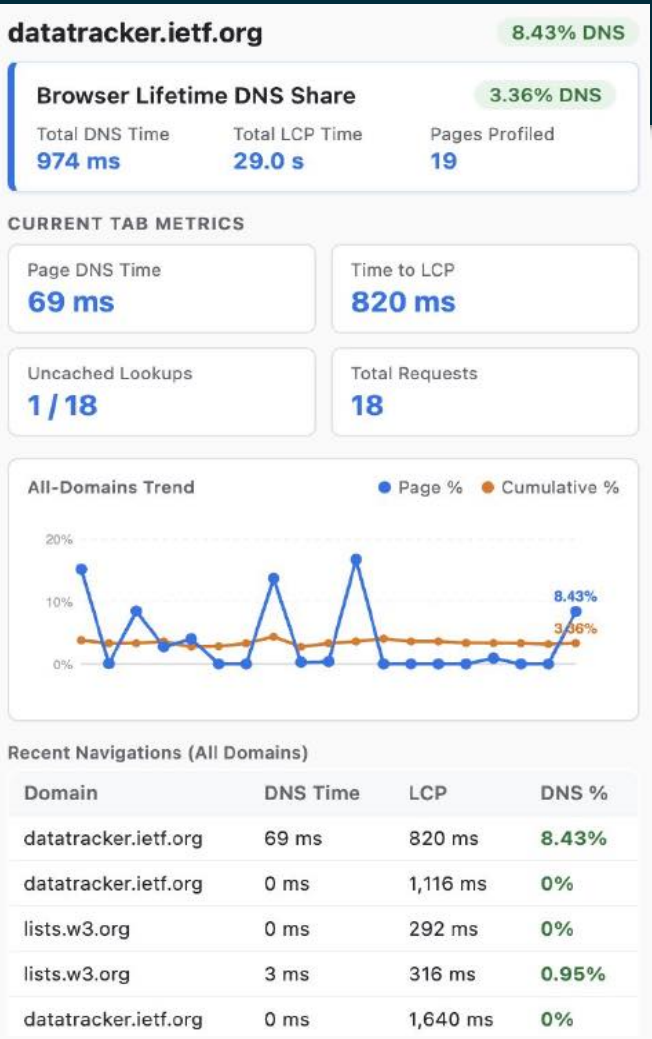
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Motivation

- **Improve user experience and privacy.**

- Web interactions requires resolving a name to an address
  - DNS lookups take time, and expose info to your resolver.

- We **do** want to improve web performance by having the server include the addresses for resources in the connection.
- We **don't** want to expose where the user is going to resolvers.



Background

- Have the server include the addresses for resources (URLs, images, etc)
  - This could be DoH or JSON encoded, a text string
  - Document proposes HTTP header, QUIC, HTML...
  - Authors are agnostic - the transport and format is secondary

- Open questions:
  - Trust model
    - DNSSEC signed answers trustworthy (?)
    - Connection Racing
  - Load balancing
    - ¯_(ツ)_/¯ - increasingly CDNs are anycast

Background

- Pointer to draft: draft-wobbly-dispatch-embedded-answers
- Prior discussion: Embedding addresses - draft-wobbly-dispatch-embedded-answers (HTTPBIS)
- Pointers to implementations: None yet
- Summaries of prior engagement with existing WGs:
  - “Resolverless DNS” - mailing list - 2017

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Desired dispatch outcome ?

Please choose from the following:

- *Direct the work to an existing WG ?*
  - *DNSOP, HTTPBIS, HAPPY, other*
- *A new focused WG ?*
- *Hold a full BOF ?*
- *AD-sponsored (assuming AD is willing)*
- *Additional discussion?*

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