

# Allowing HTTP clients to use stale DNS data

**Latency is critical for networking**

This is especially true for HTTP

HTTP requests end up paying RTT  
many times: DNS, connection  
establishment, request-response

HTTP clients should avoid paying these RTTs whenever possible:

The challenge lies in the "whenever possible".

# Proposal

- [RFC 8767](#) allows serving stale DNS data to improve DNS Resiliency
- Relax it to include
  - Stub DNS resolvers, when used by HTTP clients that opt into this
- During a TLS handshake, HTTP clients can confirm whether a server is
  - Reachable
  - Authoritative
- As such, letting them use stale DNS data should
  - Be "safe"
  - Lead to a faster internet