## DoH BCP

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## DoH BCP – the rationale

- Is there consensus that:
  - 1. the DoH protocol creates technical challenges for operators / providers intending to deploy DoH (and DoT) resolvers?
  - 2. the IETF should consider developing a BCP which documents these concerns and provides appropriate guidance?

## DoH BCP – potential topics

- How operator and enterprise networks can offer local DoH (and DoT) servers?
- How operator and enterprise DoH servers can be used across home, mobile and enterprise (BYOD) networks?
- Network & server performance, load testing, capacity & resilience planning
- Impact on existing infrastructure load balancers, captive portals, NAT, proxies, CDNs, etc.
- Impact to CPE connection set-up and DoH (and DoT) proxies and certificates
- Providing DoH and DoT servers in split DNS environments
- Interactions between applications and OS / Kernel DNS settings
- How DoH clients will handle policy negotiation with servers and manage conflicts
- Protection of application-specific DoH and DoT resolver configuration
- Authentication requirements for DOH and DoT resolvers
- Management of TLS sessions at DNS query rates ticket duration, restarts, etc.
- Options to minimise TLS overheads for DoT and DoH traffic

## DoH BCP – potential next steps

- Who's willing to work within ADD to:
  - 1. Identify subset items that all sides need agree further work/guidelines?
  - 2. Check any overlap with DPRIVE, DNS Ops, DoH working groups?
  - 3. Draft up BCP content