

Opportunistic DNS

IETF 101

HotCRP
dkg

DNS Delivery Mechanisms in 2018

- DHCP-configured resolver
- pre-configured resolver
- pre-configured DNS-over-TLS resolver
- pre-configured DOH resolver
- ???

Would you
accept a DNS
record from
this guy?



Opportunistic DOH

Not pre-configured

$C \rightarrow S$ HTTP request

$C \leftarrow S$ HTTP response

$C \leftarrow S$ DNS records you might like to know about

Benefits

- Privacy
- Latency
- Security incentives?

Contextual Choices

- What additional validation checks?
- What are the risks for bad data?

Contexts

- web browser
- other HTTP clients
- TLS DNSSEC chain
- other DNS clients
- where in the IETF?