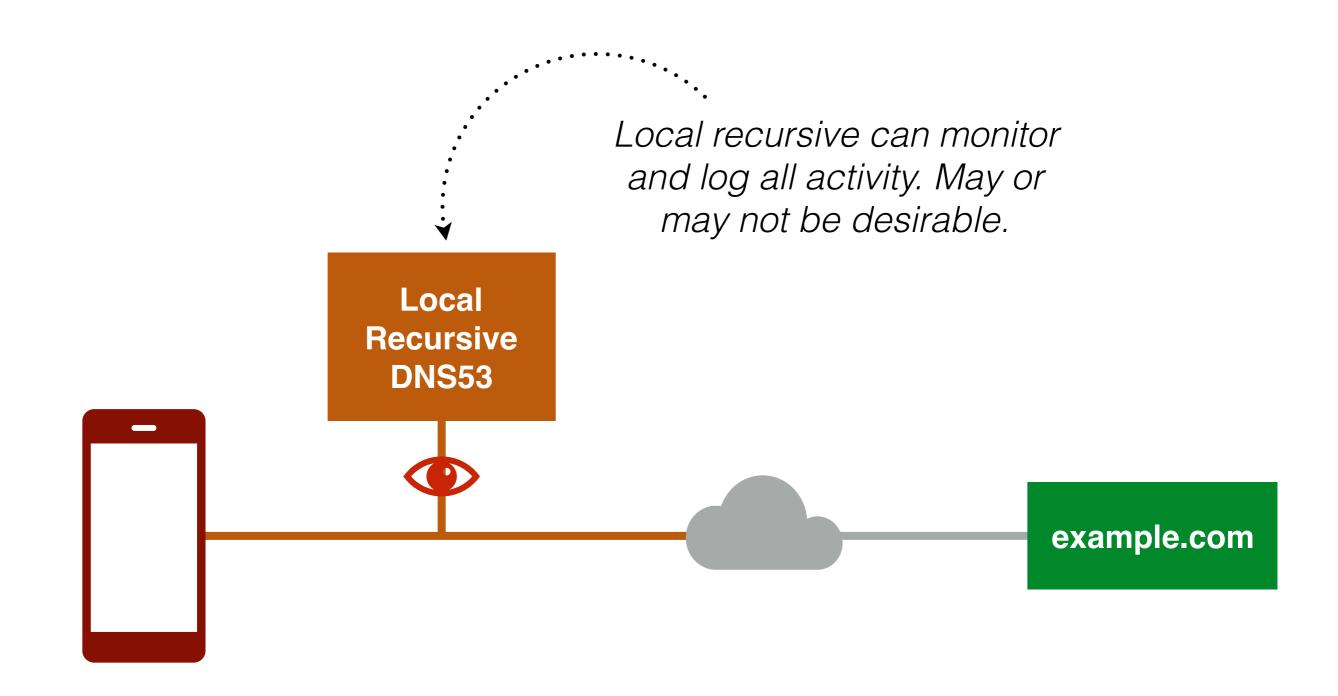
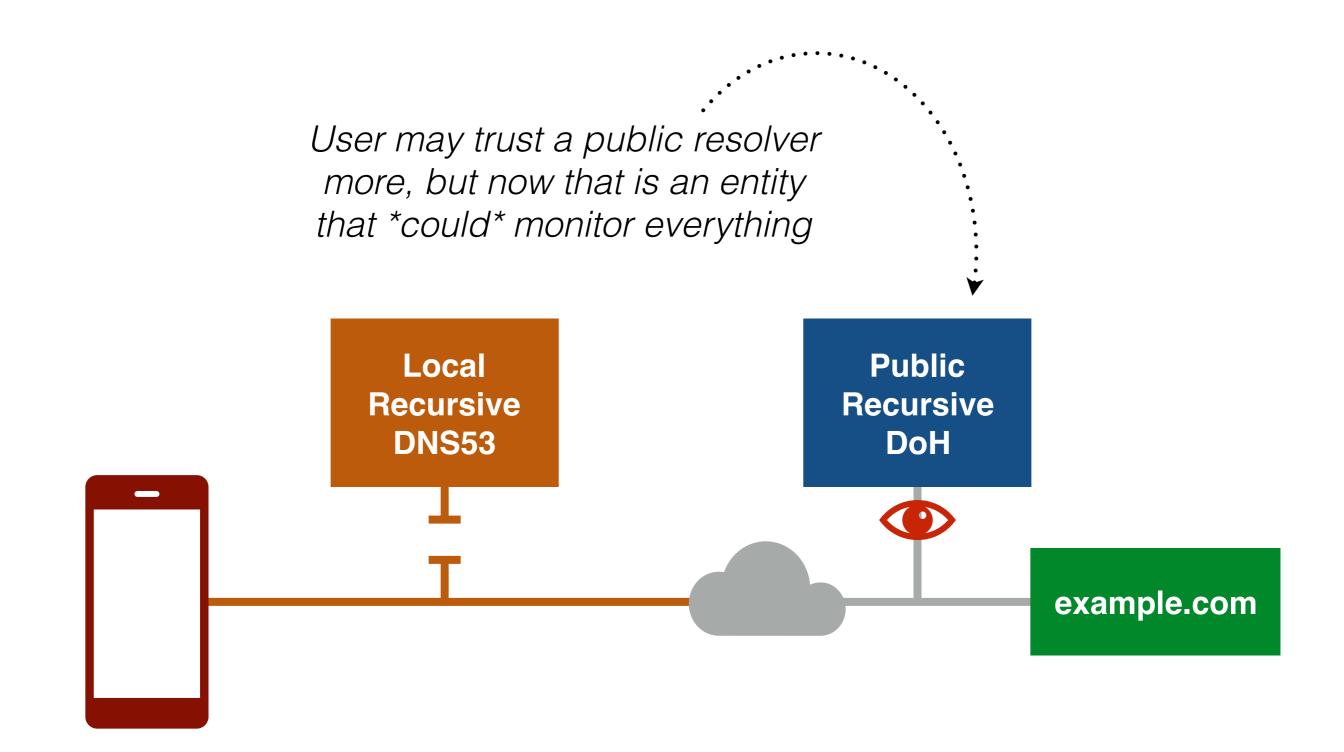
## Adaptive DNS Privacy & Oblivious DoH

HotRFC IETF 106, November 2019, Singapore





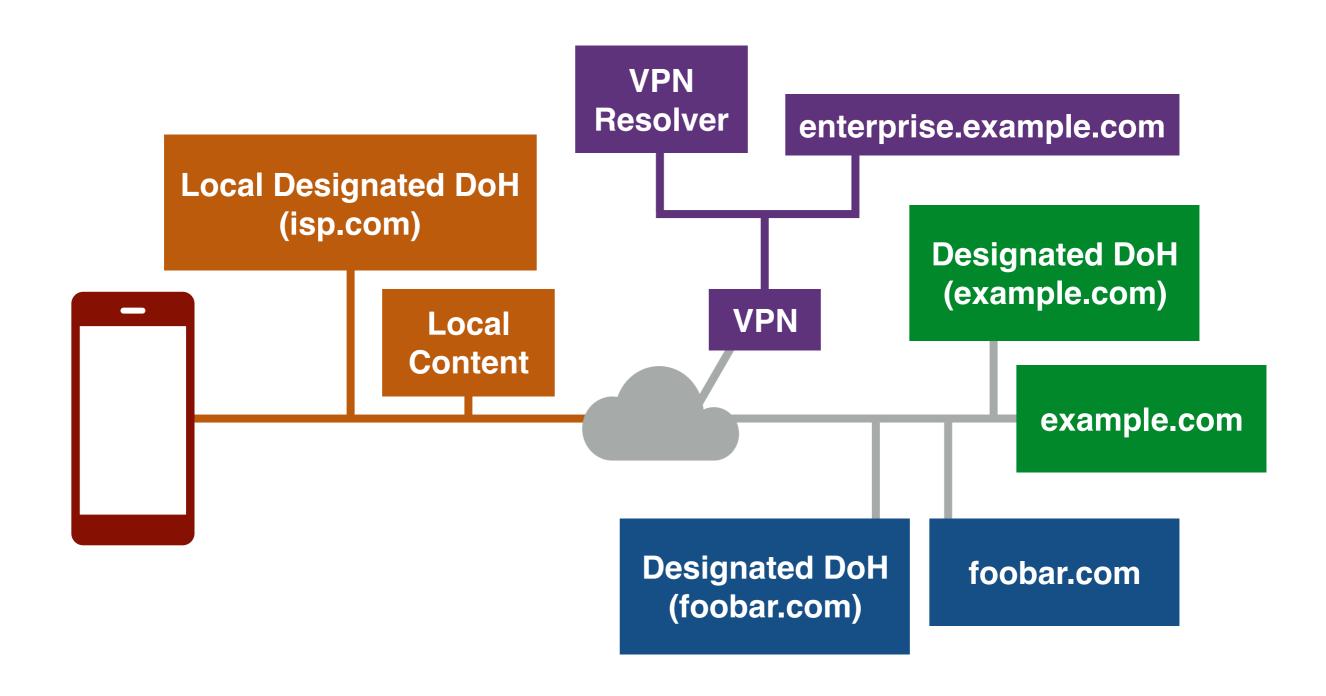
## Adaptive DNS Privacy

Discover many different decentralized DoH servers

Designate DoH servers by domain/zone

Discover local DNS policy and server capabilities

Decide which DNS servers to use for queries



How do you bootstrap this system if you don't trust the local resolver...

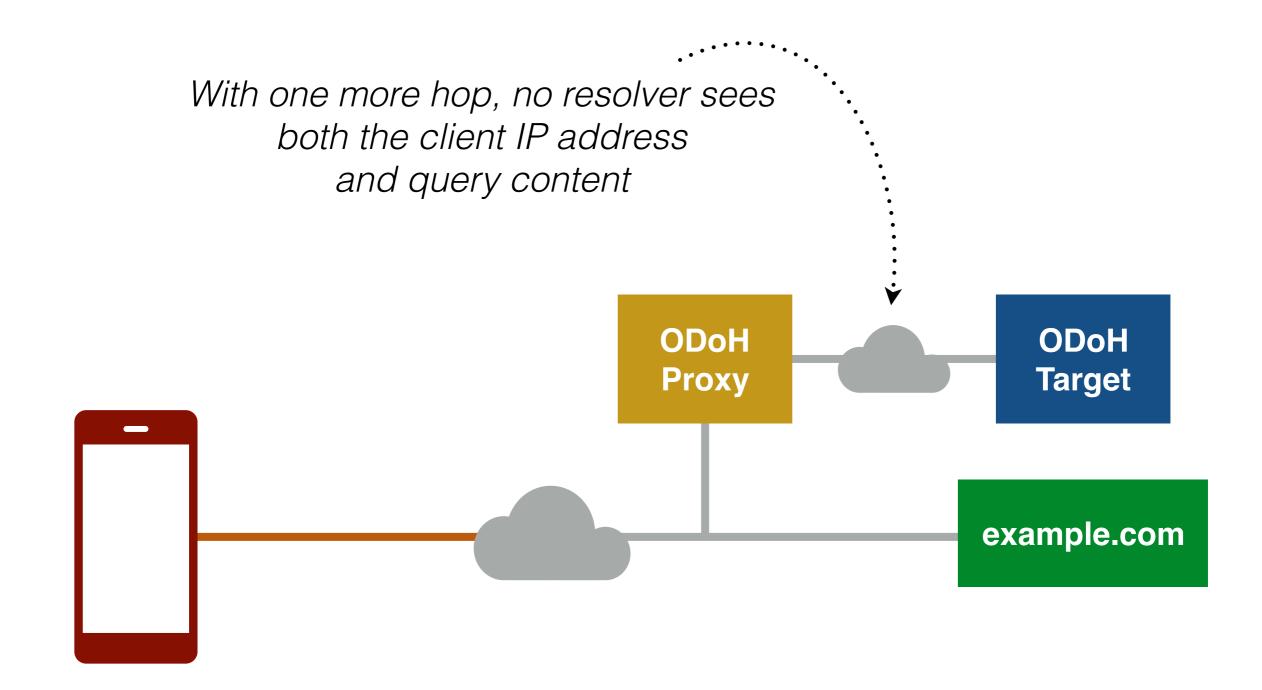
...without just trusting one public resolver instead?

## Oblivious DoH

Proxy DoH queries in order to mask client IP address

Encrypt requests with server public key

Encrypt responses with one-time symmetric key



## Get involved!

ABCD BoF

**DPRIVE** 

draft-pauly-dprive-adaptive-dns-privacy-01

draft-pauly-dprive-oblivious-doh-01

https://github.com/tfpauly/draft-pauly-adaptive-dns-privacy