# MASQUE CONNECT-UDP Listener

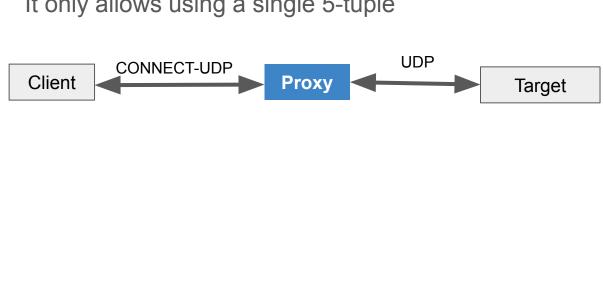
<u>draft-schinazi-connect-udp-listen</u>

IETF 114 – Philadelphia – 2022-07-27

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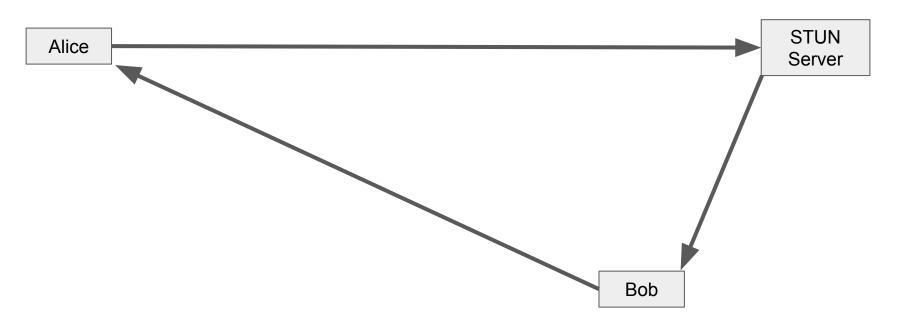
### CONNECT-UDP is great, but...

It only allows using a single 5-tuple

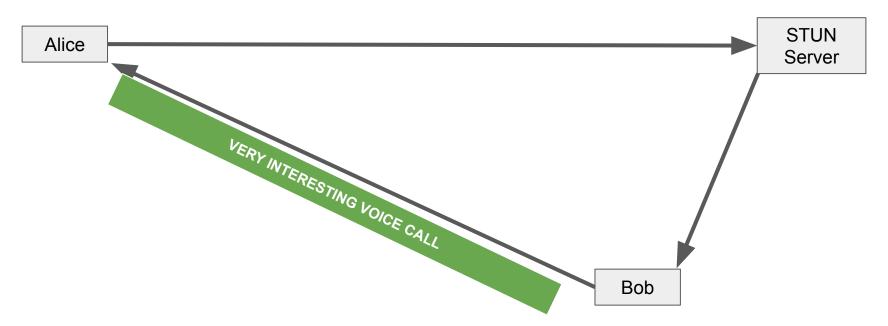




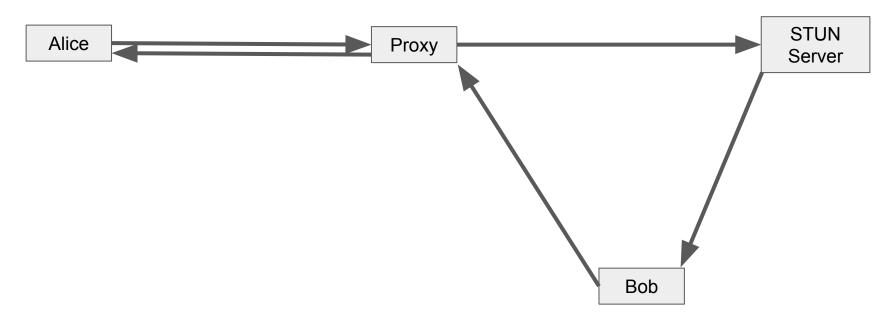
### Example use-case: WebRTC



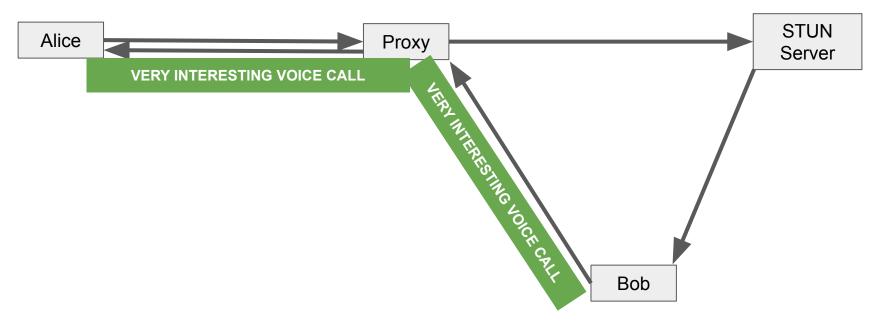
#### Example use-case: WebRTC



#### Example use-case: WebRTC with a Proxy



#### Example use-case: WebRTC with a Proxy



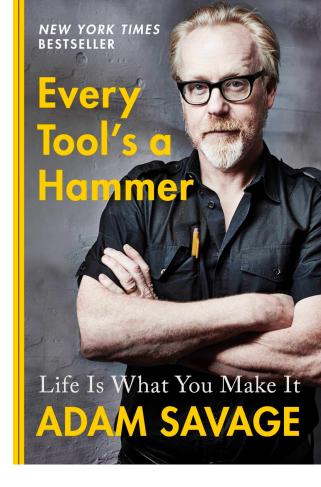
#### We could use CONNECT-IP for this

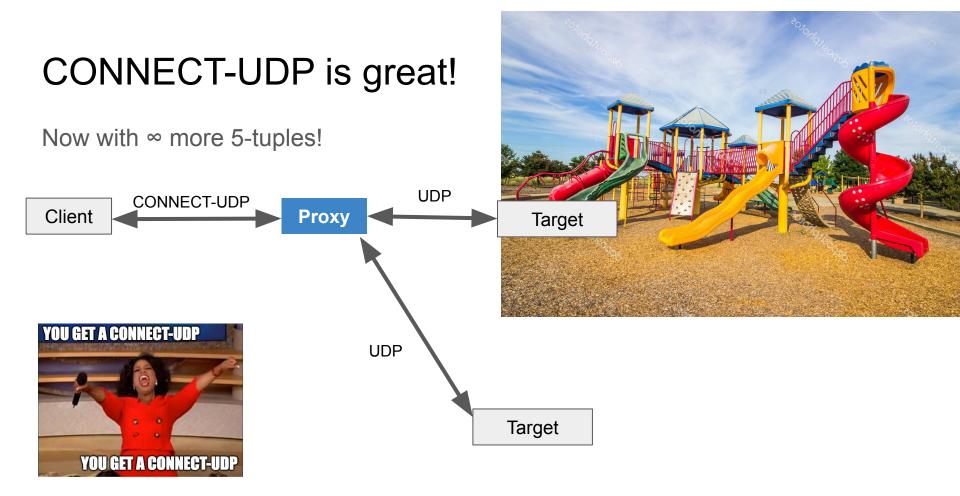
WebRTC is implemented by Web browsers

Web browsers don't have an IP stack

Every datagram carries an IP header

A lot of complexity when all you need is UDP





#### How does it work?

```
HEADERS
  :method = CONNECT
  :protocol = connect-udp
  :scheme = https
  :path = /masque/udp/*/*/
  :authority = proxy.org
  capsule-protocol = ?1
  connect-udp-listen = 42
```

```
DATAGRAM QUIC Frame {
   Type (i) = 0x30..0x31,
   [Length (i)],

   Quarter Stream ID (i), HTTP/3

   Context ID (i) = 42, CONNECT-UDP

   IP Version (8),
   IP Address (32..128),
   UDP Port (16),
   UDP Payload (..), CONNECT-UDP
}
```

Context ID registered by header – payload then contains IP & port

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#### Next Steps

We're interested in this for Chrome's Privacy Proxy efforts

Is the WG interested?



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