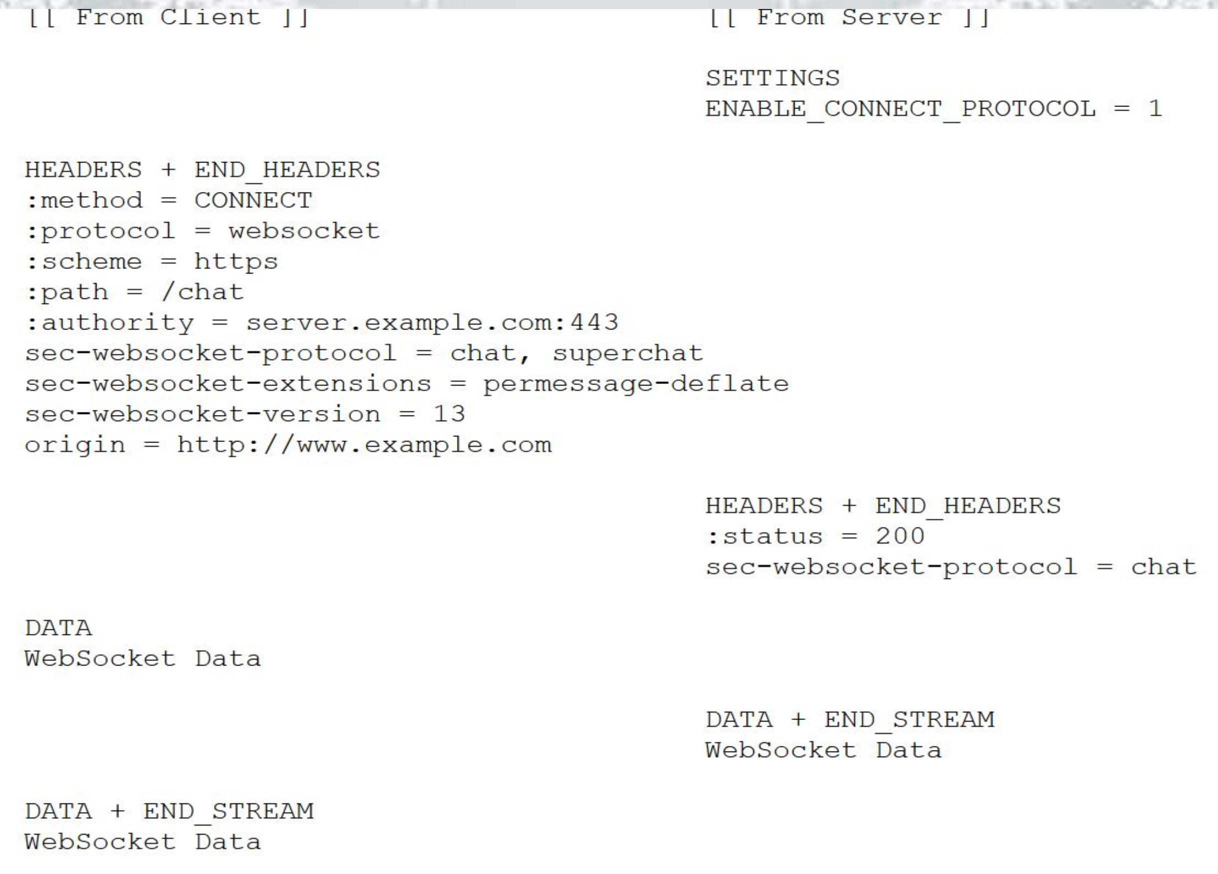
Bootstrapping WebSockets from HTTP/2

Patrick McManus - IETF 101

1. @ IETF100 We discussed an individual -01 draft and reached consensus on including a similar level of header information in the h2 request as the old h1 style used.
2. Based on WG adoption, an IETF -00 was published in December 2017. Changes since then have been editorial.
3. We’ve had successful browser and server implementations of -00
4. 2 Issues to talk about today - goal is to be ready for WGLC

A Quick Reminder



```
[[ From Client ]]                       [[ From Server ]]

                                        SETTINGS
                                        ENABLE_CONNECT_PROTOCOL = 1

HEADERS + END_HEADERS
:method = CONNECT
:protocol = websocket
:scheme = https
:path = /chat
:authority = server.example.com:443
sec-websocket-protocol = chat, superchat
sec-websocket-extensions = permessage-deflate
sec-websocket-version = 13
origin = http://www.example.com

                                        HEADERS + END_HEADERS
                                        :status = 200
                                        sec-websocket-protocol = chat

DATA
WebSocket Data

                                        DATA + END_STREAM
                                        WebSocket Data

DATA + END_STREAM
WebSocket Data
```

Issue 471: consider using ALPN registry for the :protocol values

Draft uses Upgrade registry currently corresponding to the same tokens HTTP/1 uses.

Recommend: close without action.

Issue : is Modifying CONNECT reasonable?

Argument For: CONNECT is a special snowflake already. Everything surprising about it is what we need so it satisfies principle of least surprise with only small change in behavior.

Argument Against: Link level modifications of method behavior are themselves surprising and alternate method is cleaner.