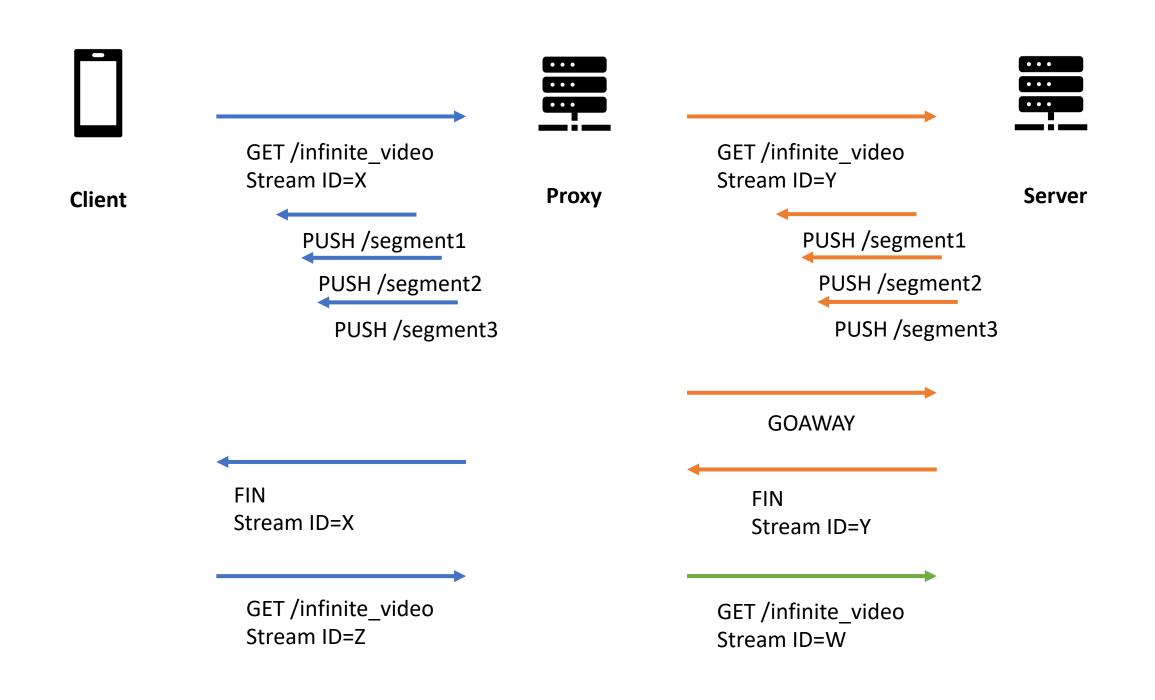
#2632 Do clients need GOAWAY?

Since clients drive request generation, clients perform a connection shutdown by not sending additional requests on the connection; responses and pushed responses associated to previous requests will continue to completion.

- What about indefinite or infinite resources? For example, a request for a live video feed.
- Not sending additional requests is a passive signal
- GOAWAY is an explicit signal that can trigger additional server logic
- Client initiated GOAWAY was part of H2 why are we removing it?



What belongs in a client initiated GOAWAY?

- Server sends QUIC Stream ID for a client-initiated bidirectional stream
- This effectively revokes previously granted stream ("request") credits
- Options
 - 1. Nothing
 - 2. Unidirectional Stream ID
 - 3. Push ID
 - 4. Bidirectional AND Unidirectional Stream ID

Option 1: Nothing

 GOAWAY is just an explicit signal that the client wants the connection to go away

• Pros:

At least there's still a GOAWAY signal

• Cons:

- Asymmetric parsing logic between client and server
- Different semantics from H2

Option 2: Server Initiated Unidirectional Stream ID

Any new unidirectional streams would be rejected

• Pros:

- Parsing is symmetric (both client and server GOAWAYs contain 1 varint)
- Maintains H2 semantics
- May be reusable by extensions

• Cons:

Maybe H2 got the semantics wrong and we want to correct them?

Option 3: Push ID

 Any new PUSH_PROMISE or push stream with a higher ID would be cancelled

• Pros:

- Parsing is symmetric
- Maintains H2 semantics

• Cons:

 Extensions that define new unidirectional stream types must define their own GOAWAY

Option 4: Unidirectional and Bidirectional Stream ID

- This is probably what GOAWAY would look like if it were in the transport
- The server's GOAWAY would also include both Stream ID types

• Pros:

- Fully symmetric
- Provides functionality that can be leveraged by extensions
- Maybe absorbable by the transport in v2?

• Cons:

Includes information that is not defined in H3 (Client Uni, Server Bidi)