

quic-proxy loops

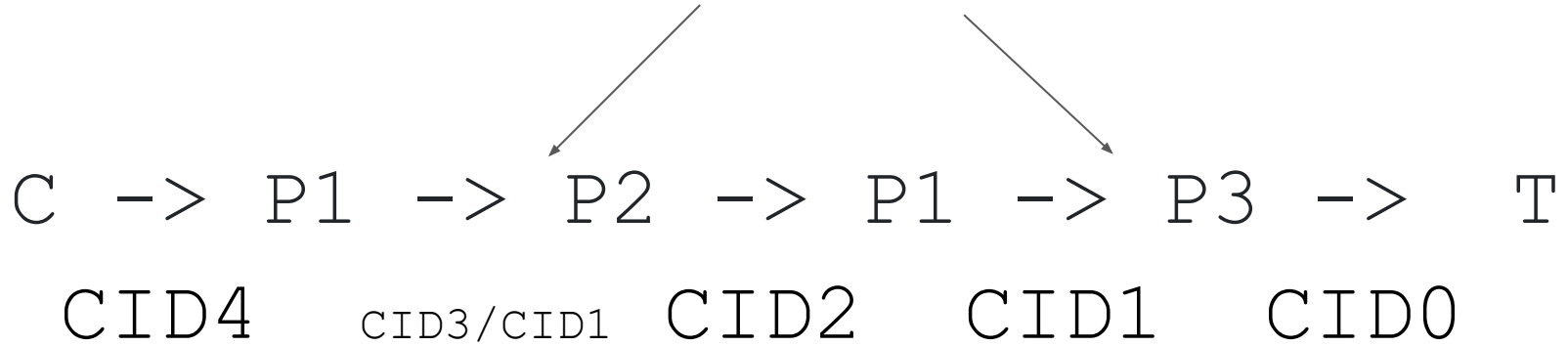
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C \rightarrow P1 \rightarrow P2 \rightarrow P1 \rightarrow P3 \rightarrow T

C -> P1 -> P2 -> P1 -> P3 -> T
CID4 CID3 CID2 CID1 CID0

C -> P1 -> P2 -> P1 -> P3 -> T
CID4 CID3/CID1 CID2 CID1 CID0

Same VIP



Non-remedies

- Encryption/authentication: no proposal does (or can) impose requirements on the target
- Proxy control of the target-facing CCID
- TTL Decrementing could mitigate, but not really solve

Remedies

- Require one socket per CONNECT request (like CONNECT-UDP)
- Give the proxy control over virtual client connection IDs (or both client connection IDs!) - implies some entropy requirements
- Eliminate virtual client connection IDs – (minor?) linkability loss
- Require load-balanced proxies to use a unique Server Preferred Address
- Others?