Oblivious Relay Feedback

draft-rdb-ohai-feedback-to-proxy-08
March 2023

T. Reddy (Nokia)
D. Wing (Citrix)
M. Boucadair (Orange)
R. Polli (Team Digitale, Italian Govt)
Proposal Recap

• Goal:
  – Share overload signals from targets to relays, while avoiding de-anonymize clients

• Approach:
  – Use draft-ietf-httpapi-ratelimit-headers to publish quotas (or service limits) to relays
Main Change Since IETF#115

• Address feedback from the WG, especially adding:
  ▪ A relay MUST NOT rate-limit a client or a subset of clients it is serving based on the rate-limit information from the server.

• Add a discussion on correlation avoidance
New `ohttp-target` Quota Policy Parameter

• Rate-limit quota policy for the Oblivious Relay

HTTP/1.1 200 OK
Date: Wed, 27 March 2022 04:45:07 GMT
Cache-Control: private, no-store
RateLimit-Limit: 10
RateLimit-Policy: 10; ohttp-target; attack-severity="high"; \ comment="Bandwidth limit exceeded"
Content-Type: message/ohttp-res
Content-Length: 38 <content is the encapsulated 400 response>
...encrypted content...
Next Steps

• Addressed all pending issues
• Consider for WG adoption