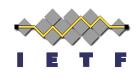
HTTPBIS WG IETF 107, Vancouver Virtual Interim May 2020

## Client-Cert HTTP Header

Conveying Client Certificate Information from TLS Terminating Reverse Proxies to Origin Server Applications

Brian Campbell draft-bdc-something-something-certificate

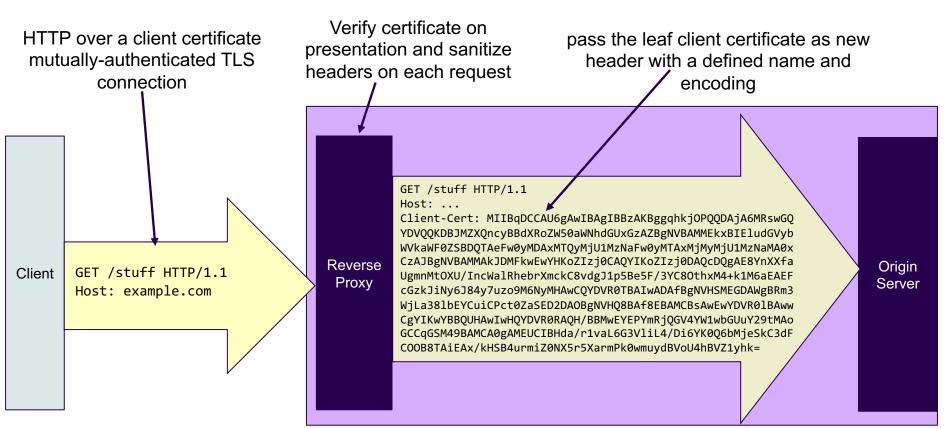
## **Context and Motivation**

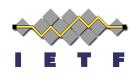


- HTTPS application deployments often have TLS 'terminated' by a reverse proxy somewhere in front of the actual HTTP(S) application
  - 'Old fashioned n-tier reverse proxy and origin server
  - CDN-as-a-service type offerings or application load balancing services
  - Ingress controllers
- TLS client certificate authentication is sometimes used
  - In which case the actual application often needs to know about the client certificate
- In the absence of a standardized method of conveying the client certificate information, different implementations have done it differently or not at all
- Here by way of a conversation in the OAuth WG that begat a draft and moved to SECDISPATCH

## A simple proposal that could potentially enable turn-key interoperable integration between independent components

draft-bdc-something-something-certificate-03





## **Considerations to Consider**

- WG adoption
- Appropriate mechanism to prevent header injection
  - Sanitization vs. something more
  - Scope of applicability
- Sufficiency of just the whole end-entity certificate
- Appropriate error-handling across layers and other layering issues

Gratuitous closing slide featuring the city where we might meet together next\* as backdrop for discussion

- Adoption
- Injection
- EE cert
- Layering & errors

\* Maybe Bangkok in the fall