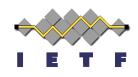
HTTPBIS WG IETF 107, Vancouver Virtual Interim May 2020

Client-Cert HTTP Header

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

Brian Campbell draft-bdc-something-something-certificate

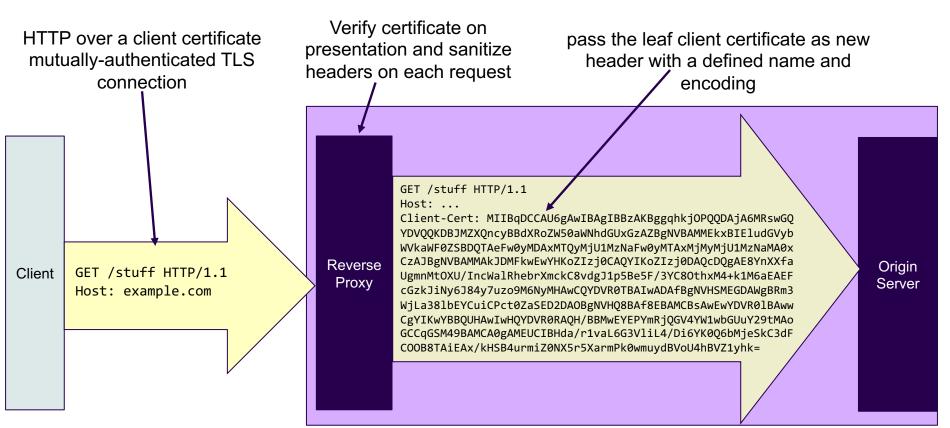
Context and Motivation

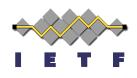


- HTTPS application deployments often have TLS 'terminated' by a reverse proxy somewhere in front of the actual HTTP(S) application
 - 'Old fashioned n-tier reverse proxy and origin server
 - CDN-as-a-service type offerings or application load balancing services
 - Ingress controllers
- TLS client certificate 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