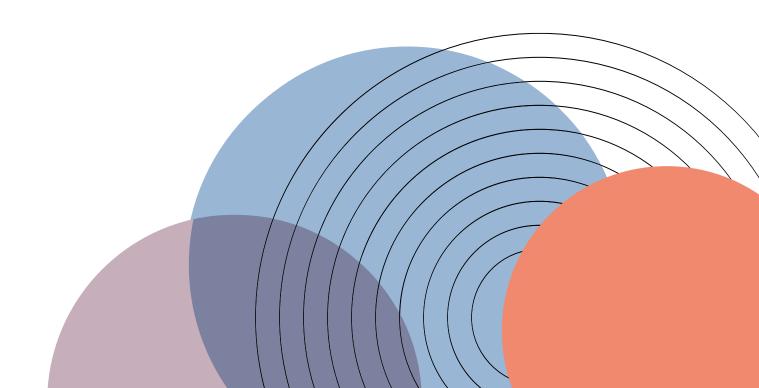


IETF 113 Hackathon – DANCE WG



Drafts that we were working on

draft-huque-tls-dane-clientid-06

• draft-huque-dane-client-cert-08

Dane-client-cert draft

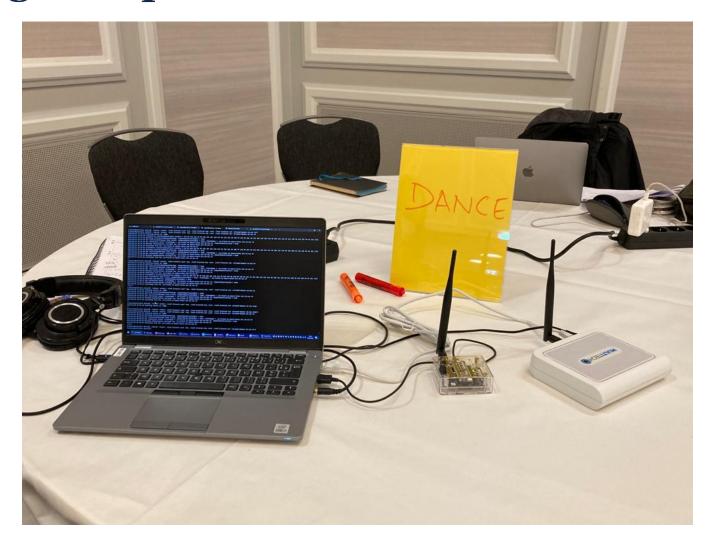
- Existing Implementation
 - go library for DANE TLSA authentication (Author: Shumon Huque)
- What has been done during the Hackathon?
 - Environment for testing TLS Client/Server authentication
 - Authentication based on dane_clientid (Both for TLS 1.2 & TLS 1.3)
 - Fallback to authentication using SAN when dane_clientid is not sent
 - Possibility of whitelisting & authorization rules for which dane_clientid to accept

Dane-clientid draft

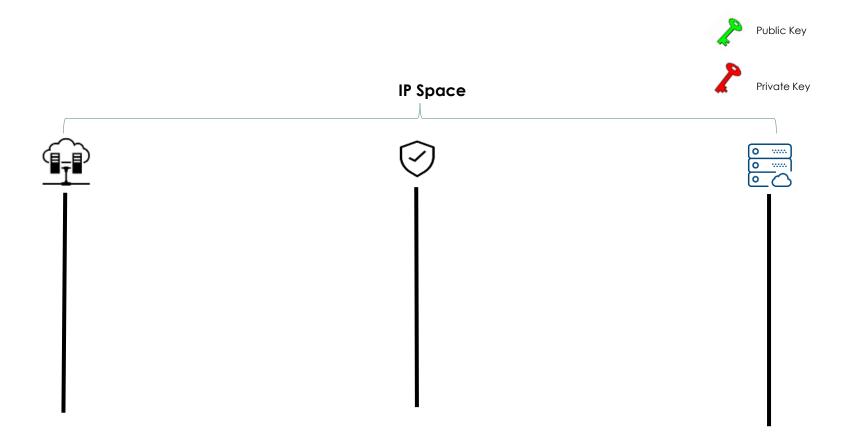
• Extending TLS 1.2 & TLS 1.3 library to use the new value dane_clientid extension

Adding the dane_clientid support for TLS 1.2 & TLS 1.3 handshake

Deploying the Updates in an IoT use-case - LoRaWAN



Mutual Authentication in the LoRaWAN IP Space



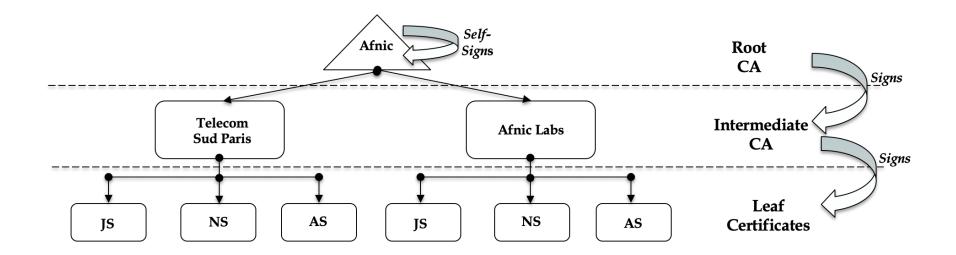
Issues with the Web PKI

CA bundle not available in most cases

Web PKI CA adds Cost -> Possible Solution: Self-Signed

Private PKI – Since the trust is based on a single Root CA

Web PKI – Self Signed Certificate Provisioning



DANE Client authentication with TLS 1.2 & TLS 1.3

