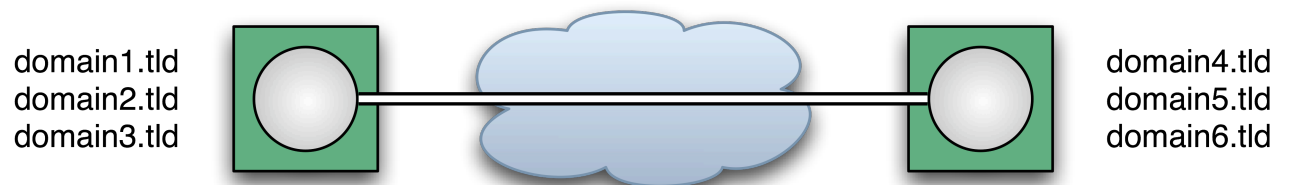# draft-hildebrand-xmpp-tls-multiplexing

Joe Hildebrand

Problem

- Hosting providers host multiple domains

- TLS: currently one identity per endpoint

- Result: N^2 connections required to validate identity

domain1.tld
domain2.tld
domain3.tld

domain4.tld
domain5.tld
domain6.tld

Approach (until last week)

- Generate requirements for TLS working group

- Ask them to take a work item

- Existence proof:

    –TLS extension to declare support

    –New record type

Problems

- Not enough
  - Private key sharing
  - Delegation

- Too XMPP-specific

- Not extensible
  - OAuth?
  - SAML?

- Long time for tooling updates

Suggestion

- Solve at application layer with DNA

- Do not take on this draft as requirements