Proxy Considerations

RADEXT - IETF 97
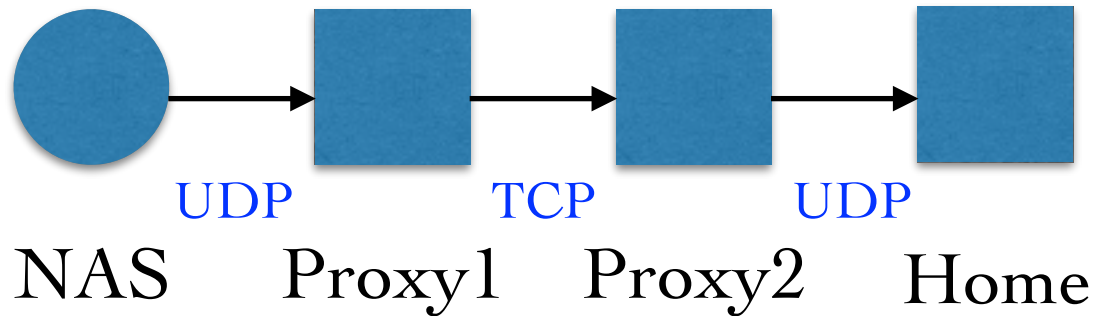Alan DeKok
FreeRADIUS

The Problem

- UDP retransmission is defined in RFC 5080, Section 2.2

- TCP doesn't retransmit, RFC 6613 Section 2.6.1

- OK… what about proxies?

The Problem

- NAS retransmits due to UDP

- Proxy1 does not retransmit due to TCP

- Proxy 2 does…. uh… what?

Even worse

- It's been 9 years since RFC 5080 has been published. How many NASes implement it?

- Is the UDP retransmission behaviour optimal? If so, why? If not, why not?

- Proxy issues are not adequately covered by existing RFCs

What we know

- RADIUS servers are smart, and can be upgraded relatively easily.

- NASes are dumb, and are hard to upgrade.

- There is no RADIUS routing protocol.

- All signalling has to be real-time, in-band.

Proposal

- I suggest a "best current practices" document covering "proxy considerations"

- We also need consensus on what it recommends.

Discussion?