TRAM Working Group

IETF 89 - London
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Logistics

- Note takers
  - http://etherpad.tools.ietf.org:9000/p/notes-ietf-89-tram
- Jabber scribe
  - tram@jabber.ietf.org
- Meeting materials (slides, agenda, etc.)
  - http://tools.ietf.org/wg/tram/agenda
- Mailing list
  - tram@ietf.org
  - https://www.ietf.org/mailman/listinfo/tram

Agenda

0. T + 00:00: Administrativia

1. T + 00:05: draft-petithuguenin-tram-stun-dtls (Marc Petit-Huguenin)

2. T + 00:15: draft-reddy-behave-turn-auth (Justin Uberti)

3. T + 00:25: draft-johnston-tram-stun-origin (Alan Johnston)

4. T + 00:35: draft-reddy-tram-turn-third-party-authz (Justin Uberti)

5. T + 00:50: draft-patil-tram-turn-serv-disc (Dan Wing)

6. T + 01:00: EOF

If time permits:

7. draft-martinsen-tram-discuss (Pål-Erik Martinsen)

8. draft-thomson-tram-turn-bandwidth (Alan Johnston)

A short introduction to the TRAM...

DTLS transport for STUN

- STUN defines UDP, TCP, and TLS transports
- TURN inherits them
- TURN can be used for UDP and TCP relaying, but that is orthogonal
- Obvious open gap : DTLS
- Top-priority milestone

STUN authentication

- Inherited by TURN

- At least two big problems :
  - No third-party authentication mechanism
    - e.g., for a WebRTC app
  - Servers are single-tenant
    - i.e., the value of REALM is static

- More smaller ones...

- Two milestones :

  a)Problem description
  b)Problem solution(s)

TURN server discovery mechanism for ISPs and enterprises

- Current TURN server discovery mechanism :

    1. Provided by the remote end

        - e.g., SIP SRV records, set by WebRTC JavaScript code

    2. Client default

        - e.g., SIP client configuration, WebRTC browser default

- Problem :

    - 1 is not possible for all remote ends

    - 2 often introduces triangle routing

- This WG will deliver a mechanism for clients to discover a network-provided TURN server (e.g., by ISPs or enterprises)

STUN-bis, TURN-bis

- A number of errata have been collected
- Clarifications
  - Nonce handling
- Ideas for core improvements
  - Dual-stack TURN allocations for reducing the number of sockets a client needs to open
- Lower priority than the previous tasks.