Enhanced DetNet Data Plane: Initial Plans

Report on DetNet Interim Meeting

IETF 116 (Yokohama): March 30, 2023

David Black

Tech Advisor (Transport)

DetNet: March 7 Interim Meeting

- Update on scaling requirements draft
- Discussion of plans for data plane enhancement (original slides follow)
  - Intend to proceed with plan proposed in slides
  - Actual meeting times/dates subject to change (e.g., to meet advance notice requirements)

Enhanced DetNet Data Plane: Proposed Plans

DetNet Interim Meeting

March 7, 2023

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Proposed Initial Focus: Queuing

- "Plans for informal open working meetings on progressing the topic of an Enhanced DetNet Data Plane"
- Focus of Working meetings: Queuing
  - Same scope as recently-disbanded design team
- Open Working Meeting Goals:
  - "information and definitions that will be common among different candidate queuing solutions"
  - "one or more specific queuing mechanisms as candidates for WG adoption"
- Other topics: Outside scope of open working meetings
  - May still be within scope of WG as a whole

Tentative Approach

A. Refine scaling requirements draft

    − Technical updates to scaling requirements

        • Separate draft section for each requirement

    − Remove requirements that aren't for scaling

B. Determine which proposed solutions satisfy which reqts.

    − Matrix of solutions X requirements (draft section #s)

    − Each cell: Satisfies, Partially Satisfies, Does Not Satisfy

C. Priority triage of requirements:

    − That set of queuing solutions to be progressed
      MUST / SHOULD / MAY satisfy (more on next slide)

• Pursue A, B, and C concurrently (feedback among them)

    − Use results to select queuing solutions to progress

• And … Obtain WG rough consensus for all of this (!)

Priority Triage Explanation

C. Priority triage of requirements:
  – That set of queuing solutions to be progressed MUST / SHOULD / MAY satisfy
    • MUST: If not satisfied, wasted everyone's time
    • SHOULD: Significant drawbacks if not satisfied
    • MAY: "Nice to Have" (some benefits)
      – No significant drawback(s) if reqt. removed
    • If not even "Nice to Have", remove requirement
  • Apply to set of queuing solutions to be progressed
  – If more than one solution, different requirements could be satisfied by different solutions

Open Working Meeting: Timing

- Important Time Zones for participants:
  - Asia: Korea (GMT+9), China (GMT+8)
  - Europe (GMT+1)
  - US Eastern (GMT-5), US Pacific (GMT-8)
- No good meeting time across all five of these time zones
- Proposal – Alternate meetings between:
  - 8p-10p ET (Asia: AM, Europe: bad [2a-4a], US: evening)
  - 8a-10a ET (Asia: evening, Europe: PM, US Eastern: AM, US Pacific: bad [5a-7a])
  - Record all WG open working meetings
- Proposed frequency: every 2 weeks, starting after Yokohama
  - Proposed first 2 meetings: April 11 (8p-10p ET) & April 26 (8a-10a ET)

Last Slide

- We have an adventure ahead of us

- Questions?
- Comments?

- Dead Cats and Rotten Tomatoes?
  - (reference to "Adventures of Huckleberry Finn" book)