Benchmarking Methodology WG (BMWG)
Tuesday July 17, 2018 | 13:30-15:30
Afternoon Session I - Room Saint-Paul/Sainte-Catherine   OPS

Remote Participation:
http://www.ietf.org/meeting/102/index/index.html
http://www.ietf.org/meeting/102/remote-participation.html

Note taker/Jabber Scribe: Jacob Rapp

Introductions
   0. Agenda
   1. WG Status
       -   There are many proposals for new work
   2. Charter and Milestones
       -   Successful rechartering of BMWG
       -   New Charter (and new milestones), see:
           https://datatracker.ietf.org/group/bmwg/about/
       -   ETSI NFV Liaison on NFVI Benchmarking Normative Specification. No comments from
           WG by the deadline. Latest Draft available:
           https://docbox.etsi.org/ISG/NFV/Open/Drafts/TST009_NFVI_Benchmarks
       -   Liaison from ITU-T SG 11:   https://datatracker.ietf.org/liaison/1565/
       -   **NEW!!!! Requirements Language modified by RFC 8174!!! ** Please review and
           keep this in mind as you're authoring or editing your drafts.

   3. Benchmarking Methodology for EVPN and PBB-EVPN
       Presenter: Sudhin Jacob
       Presentation Slides: https://datatracker.ietf.org/doc/slides-102-bmwg-benchmarking-
       of-evpnpbb-evpn/00/
       Related Draft: https://tools.ietf.org/html/draft-kishjac-bmwg-evpntest-10
       -   Presentation of PPT by Sudhin
       -   Request for adoption was made by Sudhin, chairs point out that the draft has been
           adopted into the charter.
       -   Request by chairs for hands for those who've read the draft. 2 hands were raised in
           the room.
       -   Chairs request that anyone in the room or on the list with specific routing expertise
           review the document.
       -   Q from Jim, AT&T: This document encompasses a wide area of services, does it cover
           any of the services, like FXE?
       -   A: No, the scope is limited to the definition of scope of the base RFCs.

- Comment from Sarah, chair: It would be good if you would consider clarifying the scope explicitly in this document, and review Jim's comments to see if it makes sense to widen the scope as well.

4. Methodology for VNF Benchmarking Automation
   Presenter: Raphael Vicente Rosa
   Presentation Slides: https://datatracker.ietf.org/doc/slides-102-bmwg-methodology-for-vnf-benchmarking-automation/00/
   Related Draft: https://tools.ietf.org/html/draft-rosa-bmwg-vnfbench-02
   Related Publication: (IEEE Comm Mag)
       https://www.dropbox.com/s/n9niziuhi648scj/2017-rosa-taking.pdf?dl=0
   - Presentation from Raphael
   - Q from Sarah Banks, Chair: Target metrics should not only be left up to developers; how are you going to achieve repeatability if you don't specify the metrics?
   - A: Going to get there, with the addition of the benchmarking descriptor
   - Comment from Al Morton, Chair: Should use common terminology (tester vs. probe, for example)
   - A: Agree, will update

5. Considerations for Benchmarking Network Virtualization Platforms
   Presenter: Samuel Kommu and Jacob Rapp
   Presentation Slides: https://datatracker.ietf.org/doc/slides-102-bmwg-considerations-for-benchmarking-network-virtualization-platforms/00/
   Related Draft: https://tools.ietf.org/html/draft-skommu-bmwg-nvp-03.txt
   - Presentation by Jacob (in the room)
   - NEW-ish Draft with minimal exposure, lots of comments at IETF-98

6. Updates to Firewall Benchmarking for Modern Firewalls
   Presenter: Tim Winters of UNH-IOL
   Presentation Slides: https://datatracker.ietf.org/doc/slides-102-bmwg-next-generation-firewall-performance/00/
   Related RFC: https://tools.ietf.org/html/rfc3511
   Related Draft: https://tools.ietf.org/html/draft-balarajah-bmwg-ngfw-performance-03
   Related Web Pages:
       https://www.netsecopen.org/
       https://www.netsecopen.org/about
   - Presentation of PPT by Tim
   - Q from Al Morton, Chair: Why was binary search removed?
   - A: We found it overly complicated and not easily automated
   - Comment from Al: We've updated the binary search work, you might want to take another look
   - Q from Jacob Rapp, VMWare: Does the scope include distributed firewalls, like agent-based or hypervisor-based?
   - A: Virtual firewalls yes, but not distributed.

- Comment from Chairs: Also, sync on terminology used in draft

7. Updates for Back-to-Back Frame Benchmark & OPNFV Plugfest/VSPERF Testing
Presenter: Al Morton
Presentation Slides: https://datatracker.ietf.org/doc/slides-102-bmwg-evolution-of-repeatability-in-benchmarking-fraser-plugfest-summary-for-ietf-bmwg/00/
Related Draft: https://tools.ietf.org/html/draft-morton-bmwg-b2b-frame-02
Related Slides:
   https://wiki.opnfv.org/download/attachments/10293193/VSPERF-Dataplane-Perf-Cap-Bench.pptx?api=v2
   https://wiki.opnfv.org/display/vsperf/Traffic+Generator+Testing
- Presentation by Al, covering the OPNFV Plugfest for the Fraser release. Readers, you should really pull the materials from the Materials for the IETF102 meeting; notes won't cover the fine material presented, and the recording will give you the details on the conversation held in the room. It was widely applauded, however, and we note that BMWG continues to encourage testing/test results to be brought into the WG.

8. Presentation on Reliability and Precision of Software Packet Generators
Presenter: Paul Emmerich
Presentation Slides: https://datatracker.ietf.org/doc/slides-102-bmwg-precision-and-accuracy-of-packet-generators-who-tests-the-testers/00/
- See presentation slides for info; very good presentation on the subject, and the chairs noted that they hope to see a follow up presentation on the subject as the research continues.

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