BMWG IETF98 Chicago
Thursday March 30, 2017 - Morning Session I 9:00-11:30am – Zurich B

Chairs:
Al Morton
Sarah Banks

Note Takers: Ramki Krishnan, Jacob Rapp
Jabber Scribe: Jay Karthik

**** A big thank you to our note takers and scribe. We can't generate our minutes without you! ****

1. Welcome and Working Group Status/Update
   - Welcome and update from chairs
   - No agenda bash

2. Charter and Milestones

Existing Working Group Work:

3. IPv6 Transition Benchmarking
   Presenter: Marius Georgescu
   Slides: https://www.ietf.org/proceedings/98/slides/slides-98-bmwg-benchmarking-methodology-for-ipv6-transition-technologies-00.pdf
   Draft: draft-ietf-bmwg-ipv6-tran-tech-benchmarking-06

   - Marius presented remotely
   - No questions

4. Benchmarking for SDN Controller Performance
   Presenter: Sarah Banks
   Slides: https://www.ietf.org/proceedings/98/slides/slides-98-bmwg-draft-ietf-bmwg-sdn-controller-benchmark-00.pdf
   Draft: draft-ietf-bmwg-sdn-controller-benchmark-meth-03

   - Resolves questions from WGLC
   - Al circulated the document with the OPNFV controller group. Look at loss of packets in. There are lots of tools that measure loss
   - Sarah: Al, please send this list of tools you're thinking about to the list
   - Al agrees to send the list of tools to the BMWG list
   - Q from Jay: Is the IGP database size something in-scope of this work?

- Sarah: Please send to the list and we'll discuss; this is something the authors need to discuss as well.

5. vSwitch Benchmarking in OPNFV
   Presenter: Al Morton
   Draft: draft-ietf-bmwg-virtual-net-05

   - Addressed comments from last IETF meeting
   - Sarah: How many people have read the draft?
   - 6 hands in the room
   - Q from Ramki Krishnan: How do you benchmark access control rules, such as ACLs, and how does that affect performance?
   - Al: We have that covered in a general way, other work done on flow path test nfv 004 - Decomp of a router. This has been covered there and don't want to overlap.
   - Next step is to call for consensus. (Sarah)

Work Proposals:

6. Considerations for Benchmarking Network Virtualization Platforms
   Presenter: Samuel Kommu

   - Al mentioned the scope of this draft should be well defined with other considerations
   - Jacob is asking for more clarification on the scope
   - Speaker (unknown name) is asking for clarification/delineation between where the function ends and the platform begins
   - Sarah (as a participant) reiterates the need to have clear demarcation of scope.
   - Ramki concurred and added additional details on why micro-services and platform should be well defined.
   - Q from Ramki: Question on whether or not the draft is looking at x86 only, or ARM? Need to clarify the scope. Need to take into consideration the need to look at micro-burst of offloads.
   - Q from Ramki: how do these offloads affect low latency applications?
   - A from Samuel: LRO has an implication on the latency, while TSO doesn't.
   - Sarah: let's add that to the draft, and have that conversation
   - Q from Ramki: What is the target objective, there are are other hardware accelterations beyond TSO, LRO, and RSS.
   - A from Samuel: We have a longer list, but we took a generic approach to cover hardware offloads
   - Q from Ramki: Have we considered storage traffic? Need to think more about it
   - Al: Take a look at the traffic management RFC, to see the effects of stateful traffic that is affected by TCP flow control

7. Benchmarking Methodology for Virtualization Network Performance
   Presenter: Lu Huang
   Slides: https://www.ietf.org/proceedings/98/slides/slides-98-bmwg-benchmarking-methodology-for-virtualization-network-performance-00.pdf

   - Q from Sarah: Why not connect two physical testers to the DUT, to keep the DUT the specific point of focus on the test? This is an additional test case
   - Agreement to discuss
   - Ramki: It's going to be difficult to actually isolate the tester

8. Benchmarking Methodology for EVPN & PBB EVPN
   Presenter: Sudhin Jacob
   Slides: https://www.ietf.org/proceedings/98/slides/slides-98-bmwg-benchmarking-of-evpn-and-pbb-evpn-00.pdf

   - Q from Jacob Rapp: Does this cover DC use case or just provider.
   - A from Sudhin: This only covers provider, but can consider DC, but it will be different topologies.
   - Q from Jay: RFC7747 that covers BGP performance do you reference it.
   - A from Sudhin: We didn't explicitly, but we do refer the mac learning.
   - Q from Al: Who has read the draft?
   - 5 and support in the meeting to adopt.
   - Q from Avnash: Prefix routing (route type 5) with EVPN is being used, should you consider this.
   - A from Sudhin: It would require a change of scope, but there is room if we include the DC.

9. Brief Look at Microservices on the Edge
   Presenter: Ramki Krishnan

   - Ramki gave a 3 minute update to the room, recap from the NFVRG presentation. There were no questions (there was no time for questions).

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End of Minutes