Benchmarks for SDN Controller Performance

draft-ietf-bmwg-sdn-controller-benchmark-term-01
draft-ietf-bmwg-sdn-controller-benchmark-meth-01

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Objective

- Develop a comprehensive set of tests for benchmarking SDN controllers for
  - Performance
  - Scalability
  - Reliability and
  - Security

- Define metrics and methodology to assess/evaluate SDN controllers

- Provide a standard mechanism to measure and compare the performance of various controller implementations
History

Revision 00
- Submitted in March 2014 (OpenFlow Specific)
  (draft-bhuvan-bmwg-of-controller-benchmarking-00)
- Presented initial version in IETF-90 meeting

Revision 01
- Submitted in October 2014 (Protocol Agnostic)
  (draft-bhuvan-bmwg-of-controller-benchmarking-01)
- Presented the revised version in IETF-91 meeting

Revision 02
- Submitted in March 2015 (Split into Terminology and Methodology Drafts)
  (draft-bhuvan-bmwg-sdn-controller-benchmark-term-00)
  (draft-bhuvan-bmwg-sdn-controller-benchmark-meth-00)
- Presented the revised version in IETF-92 meeting

Revision 03
- Submitted in July 2015 (Addressing review comments from IETF 92 meeting)
  (draft-bhuvan-bmwg-sdn-controller-benchmark-term-01)
  (draft-bhuvan-bmwg-sdn-controller-benchmark-meth-01)
- Presented the revised version in IETF-93 meeting

Revision 04
- Submitted in October 2015 (Successful Call for Adoption)
  (draft-ietf-bmwg-sdn-controller-benchmark-term-00)
  (draft-ietf-bmwg-sdn-controller-benchmark-meth-00)

Revision 05
- Submitted in March 2016 (Addressing comments from IETF 94)
  (draft-ietf-bmwg-sdn-controller-benchmark-term-01)
  (draft-ietf-bmwg-sdn-controller-benchmark-meth-01)
Revision 05 - Updates

- Thank you everyone for the support and feedback on this draft

- Changes Highlight
  
  **Terminology Document:**
  - Removed some of terms definition (e.g., SDN Nodes) that are already defined in RFC 7426 (SDN: Layers and Architecture Terminology) and added references for that RFC.
  - Added Test Setup (Section 3)

  **Methodology Document:**
  - Added requirements for Test Emulator Requirements (Section 4.3) and added some texts for Test Repeatability (Section 4.7).

### We are still considering a solution for comments received from Marius G in IETF 94 about summarizing test results in terms of Average vs Median.
Next Steps

- Other Comments?
- Consider for IESG Review??
Thank You!!!

The authors of

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