

2022-03-02 ViNePerf Agenda and Minutes

Attendees

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Sl. No	Topic	Presenters	Notes
1	Development Update <ul style="list-style-type: none">✓ Qemu✓ NIC Details Extraction✓ Vineperf + Tgen Deployment + Nodeport Configuration✓ Results Collection (console read)		<ol style="list-style-type: none">1. Patch is submitted. Currently not moving to Newer-Version of Qemu. Newer version required newer compiler version.2. Development is completed, submit the patch by EOW.3. No-Progress.4. Development is completed, submit the patch by EOW.
2	Kubernetes Dataplane Benchmarking - PROX and T-REX		<p>Target Environment: Network-Intensive CNFs (You can only consider CNIs that needs DPDK/SRIOV). Other CNIs does not apply for Network-Intensive CNFs (Ex: U-plane Network functions of LTE-Core: SGW, PGW) East-West Traffic. Why Not North-South? (it is already done) Traffic Generator + Forwarder + Swap: Pods.</p> <p>Consider Set of Topologies.</p> <ol style="list-style-type: none">1. Single Node2. Multi Node3. L2 and L3 Traffic. <p>A. For Single Node L2: Done. (Majority of the thesis will focus on this - Highlight issues, limitations, results, patterns) B. For Single and Multi-Node L3: IPAM to be fully functional. C. For Multi-Node L2: We need to configure infrastructure switches (which is not possible)</p> <p>What Next:</p> <ol style="list-style-type: none">1. Complete A fully. Including pointers to 'golden configuration': refer to TODO here: https://wiki.anuket.io/display/HOME/2022-02-09+ViNePerf+Agenda+and+Minutes2. How much we can do with 'B'. Does Prox/T-REx support B? Run Tests (topology-1) without configuring the switches Manually. Is this possible with Prox and T-REx.? <p>For 2:</p> <ol style="list-style-type: none">1. We need from Prox how to configure L3-Tests. Daniele to setup Toplogy-1 (VPP + Prox) with IPAM, and Luc to help us on how to run tets. <p>Daniele to ViNePerf: (whenever you find time) Organization and sharing of the documents:</p> <ol style="list-style-type: none">1. Pod Deployment Files.2. NAD Files.3. Prox COnfig Files for each topology (you will have to create separate folder)4. T-Rex config files for each topology (you will have to create separate folder)5. Documentation of the steps (any format - txt, or .md)

3	Experiment Inputs		<p>https://www.etsi.org/deliver/etsi_gs/NFV-TST/001_099/009/03.04.01_60/gs_NFV-TST009v030401p.pdf</p> <p>https://github.com/BroadbandForum/obudpst</p> <p>1. Trex-VPP:</p> <ul style="list-style-type: none">a. Try Decreasing the duration. Ex: 5sec and see if there is difference.b. Try more trials.c. Long-Duration Interrupt analysis - TRex: 1024 bytes, 500 secs. T-Rex to report per-sec results.. We will infer the transients.
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