

2022-07-13 Agenda and Minutes

New Time: 6AM Pacific Wednesday. 3PM CEST, 1PM GMT, 0630 India time

Attendees

[Al Morton](#) [Sridhar Rao](#) Intern Shivank Chaudhary, Federica Paganeli

Item	Desc	who	Notes/minutes
	Shivank's Intern update		<p>13 Jul 2022</p> <p>tried to use 32-bit Java, then install Fedora 36 on Node 4, other upgrades have not worked for eBPF applications. Need help from someone on-site at Intel</p> <p>Sridhar will give Shivank access to Pod 18: it is up to date, need to install PROX on any node.</p> <p>Trex and PROX are running on Node 5 using Node 4 eBPF as loopback</p> <p>Next phase is using k8s pod for loopback and Cilium CNI on Node 4</p> <p>(this is a 6 month Internship).</p>
	Post review of Daniele's work 13 Jul 2022 closure to Daniele's work and see if there is anything worth publishing, may consider less-selective conferences if novelty is less	Sridhar	<p>Some issues we dig into now</p> <p>simonartxavier@gmail.com and Luc?</p> <p>Once we containerize prox, and we assign multiple cores to single interface, it crashes. how can we run Prox with multiple cores in a container??</p>
	Tasks and Action Plan for Shivank		<ol style="list-style-type: none">1. Get access to the Testbed (Pod18 now)2. Demonstrate how to use Prox and T-Rex on Node-53. Start with Baremetal and eBPF: Node-5 and Node-44. Kubernetes Cluster Setup - Node-1 and Node-2: Install Necessary Components.
	Intern: ToDos before 6th		<ol style="list-style-type: none">1. Accept ICLA in Gerrit.2. Open Jira ticket for VPN Access to Intel Pod12.3. Add SSH key to gerrit.4. Create Jira tickets (a) Story (b) Tasks.
	Open Programmable Interface Project (Linux OPI)	Sridhar	<p>New project, forming governing board now.</p> <p>Change CPU NIC architecture, more autonomy and CPU power goes to NIC in OPI, more than smart NIC now. New Trust boundary between Autonomous NIC and CPU.</p> <p>Opportunity for Benchmarking work with us.</p> <p>Need to know planned NIC speeds, Need NIC HW to benchmark.</p>
	Testbed - IXIA support	Sridhar/AI	<p>2nd ACTION: Do we have support from Ancuta or other IXIA person? Al Morton sent e-mail</p> <p>ACTION: License for IXIA HW - Check with Trevor</p> <p>Trevor Cooper says connected and powered on, but we still might have a license issue. Need Pierre's help.</p> <p>11 May 2022 this seems to have stalled ...</p>

Additional Mentoring input	Sridhar /Federica	<p>13 Jul 2022 Federica</p> <p>Past meeting: python scripts. Possible combine 1 and 3</p> <p>@Sridhar will expand on the proposal descriptions and Federica will begin to ask students about their interests.</p> <p>python scripting with K8s is possible for some students in 3rd year. Projects must have resume value, add skill set or new experience.</p> <p>Sridhar Rao created some projects.</p> <p>ACTION: See proposals & review</p> <p>https://wiki.anuket.io/display/HOME/Potential+Projects+for+Student+Volunteers</p>
Intern work	Sridhar/AI /Federica /Shivank	<p>XDP performance Studies for Cloud-Native NFV Use Cases</p> <p>"Maryam Tahhan joins the crew to talk XDP, AF_XDP, and fast networking"</p> <p>Operations support seems to be a big issue, and performance is currently about 0.7 of VPP and DPDK</p>
K8s on Pod 12	Sridhar	will look into it

Not DONE YET??? - Progress for Moselle (summary: items 5,6,and 7 lack the necessary automated address discovery feature, defer)

6/14 moved to 6/21 but no Moselle page update? Patches have been submitted to Releng, but have not been committed yet. Release manager must give go ahead after TSC approval.

see [Moselle Release](#)

1	Epic-VINEPERF-672:Create Tools as part of moselle release	<p>1. Done (Yet to submit the patch)</p> <p>2. Another - Will not implement - Idea is already stale.</p>	<p>CCLA for Moselle release (LF as C)</p> <p>CCLA issue resolved 27 Apr 2022</p> <p>Patch is submitted - Done.</p>			
2	Epic-VINEPERF-671:Add support for newer software versions	Completed testing.	Done			
3	Epic-VINEPERF-670:Create clean workflows for Baremetal, Openstack and Kubernetes Usecases	Workflows are drawn-up. Implementation may need few more days. Request for 1 week more.	Minor work needed for K8s Workflow	DONE??? I think so.		
4	Epic-VINEPERF-669:Improve Stability for moselle Release	1. Bug Fixes (2 patches)	Done			
5	Epic-VINEPERF-652:Enhance XTesting-ViNePerf Integration	Moved to Next Release	depends on 7			
6	Task-VINEPERF-658:Enhance framework for XTesting-K8s Usecase	Partially done (reading results from output), Deployment tool.	1 task remains			
7	Task-VINEPERF-654:XTesting-ViNePerf Integration Enhancement - Kubernetes	Will not implement due to limitations with CNIs. Moved to Next release - if CNIs support this.	<p>Need CNI to add flows automatically in Switches (Userspace-CNI, supports DPDK, OVS, VPP). Major impediment to integrate with X-Testing</p> <p>Sridhar will check with Xavier if ARP resolution is supported in Prox as a switch</p> <p>TBD</p>			
8	Task-VINEPERF-653:XTesting-ViNePerf Enhancement - Openstack [OLD]	Done				
9	Epic-VINEPERF-638:Dataplane performance testing for various internal (within cloud) scenarios	Completed - Yet to submit the patches - Done	<p>Danielle will submit patches after Thesis on Friday, Monday 04/25</p> <p>27 Apr 2022 After review tomorrow, Daniele will submit the patch.</p> <p>Al Morton will need to review (big patch with documentation) - Done 11 May 2022</p>			
10	Task-VINEPERF-643:Pod-Pod Communication					

ACTION ITEMS