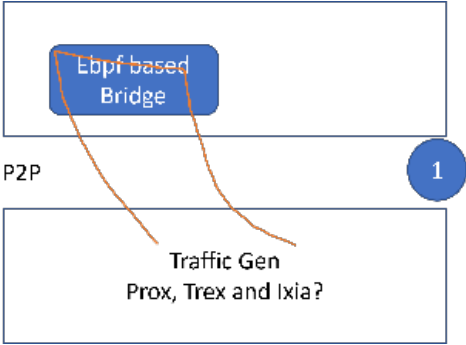
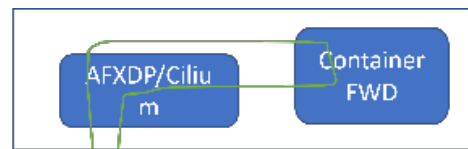


# Status Check

Category	Tasks	Status	Comments
Infrastructure Setup	Installation of Correct OS on all Nodes (Node-1, Node-2, Node-4, and Node-5)	Node 1: Pending(BMC access issue) <b>Done from my side</b> Node 2: Pending(BMC access issue) <b>Done from my side</b> Node 4: <b>Done</b> Node 5: Pending(Current-Centos) <b>Done from my side</b>	Node-1: Ubuntu 20 LTS Node-2: Ubuntu 20 LTS Node-4: Fedora 36 Node-5: Ubuntu 20 LTS
	Installation of necessary software on all Nodes	<b>Done</b>	<b>Packages:</b>  clang, llvm, libelf-dev, libpcap-dev, gcc-multilib, build-essential, linux-tools, linux-headers, linux-tools-common, linux-tools-generic, tcpdump  <a href="#">Install.txt</a>  <b>DPDK Setup:</b>  <a href="#">Link</a>
	Installation of Kubernetes cluster on Node-1 and Node-2. Fully functional K8S Cluster	Node 5(Master): <b>Ready</b> Node 4(Worker): <b>Not Ready</b> (Kubelet issue)	<ul style="list-style-type: none"> <li>To create a k8s cluster we can use this one:</li> </ul> <a href="#">Link</a> <ul style="list-style-type: none"> <li>We can also go with rke K8s to deploy a production grade k8s cluster, rke is much easier to use, but I don't know if it support cilium or not.</li> <li>Also I can make a dedicated ansible playbook to perform the same action.</li> </ul>
	Installation of necessary CNIs in the Cluster Multus, flannel, af-xdp, etc.	Flannel: <b>Done</b> AF-XDP: <b>Done</b> MULTUS: <b>Done</b>	Flannel: <a href="#">Link</a> Cilium: <a href="#">Link</a> Af-Xdp: <a href="#">Link</a>
	Installation of (or necessary YAML definition files) required Device Plugins  AF-XDP, SR-IOV	<b>Completed</b> SR-IOV *not	Please provide details (links for the files)
	Cluster configuration (CPU-Manager, Topology-Manager, etc) details.	<b>Completed</b>	K8s Cluster Dashboard: OpenLens <a href="#">Link</a>
	Installation (or script to install) of eBPF Programs on Node-4	<b>Completed</b>	Installation <a href="#">Link</a>
Test-Tools Setup	Installation of TGENs on Node-5 and test if it is properly working	<b>Completed</b>	Trex Install: <a href="#">Link</a>
	Deployment of L2FWD pods and test if it is properly working	<b>Completed</b>	L2FWD Pod: <a href="#">Link</a> Docker Image: <a href="#">Link</a>
	Deployment of TGEN Pods in the Cluster - and test if its properly working	<b>Completed</b>	Trex Pod: <a href="#">Link</a> (Use Trex.yaml) Docker Image: <a href="#">Link</a>  Prox Pod: <a href="#">Link</a> Docker Image: <a href="#">Link</a>
Test-Runs	Test -1  a. DUT (eBPF program) on Node-4 and TGEN in Node-4  b. Simple loopback Test		 <p>The diagram illustrates a network setup for testing. It features two main components: an 'Ebpf based Bridge' (represented by a blue box) and a 'Traffic Gen' (Prox, Trex and Ixia?) (represented by a white box). They are connected by a 'P2P' (Point-to-Point) link, indicated by a red line. A blue circle with the number '1' is positioned next to the 'P2P' label.</p>

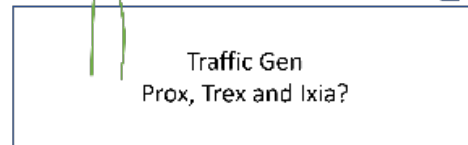
Test -2

- a. K8S Cluster.
- b. L2 Fwd Pod
- c. AFXDP as CNI
- d. Use CNDP tool-chain?



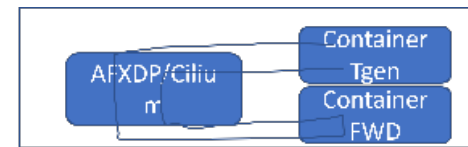
PVP

2



Test - 3

- a. K8S CLuster
- b. L2FWD Pod
- c. TGEN Pod
- d. AFXDP as CNI
- e. Use CNDP tool-chain?



East-West

3