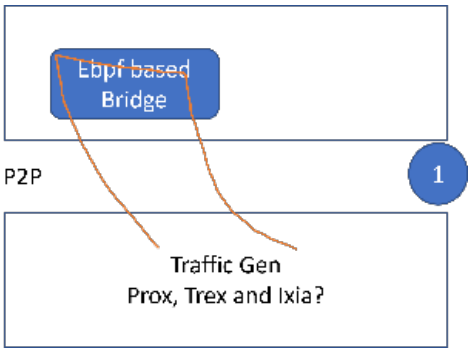
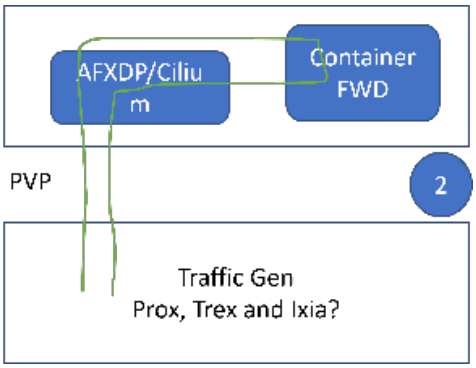
Status Check

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) Done from my side Node 2: Pending(BMC access issue) Done from my side Node 4: Done Node 5: Pending(Current-Centos) Done from my side	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	Done	**Packages:** `clang, llvm, libelf-dev, libpcap-dev, gcc-multilib, build-essential, linux-tools, linux-headers, linux-tools-common, linux-tools-generic, tcpdump` Install.txt **DPDK Setup:** Link
	Installation of Kubernetes cluster on Node-1 and Node-2. Fully functional K8S Cluster	Node 5(Master): Ready Node 4(Worker): Not Ready (Kubelet issue)	▪ To create a k8s cluster we can use this one: Link ▪ 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. ▪ Also I can make a dedicated ansible playbook to perform the same action.
	Installation of necessary CNIs in the Cluster Multus, flannel, af-xdp, etc.	Flannel: Done AF-XDP: Done MULTUS: Done	Flannel: Link Cilium: Link Af-Xdp: Link
	Installation of (or necessary YAML definition files) required Device Plugins AF-XDP, SR-IOV	Completed SR-IOV *not	Please provide details (links for the files)
	Cluster configuration (CPU-Manager, Topology-Manager, etc) details.	Completed	K8s Cluster Dashboard: OpenLens Link
	Installation (or script to install) of eBPF Programs on Node-4	Completed	Installation Link
Test-Tools Setup	Installation of TGENs on Node-5 and test if it is properly working	Completed	Trex Install: Link
	Deployment of L2FWD pods and test if it is properly working	Completed	L2FWD Pod: Link Docker Image: Link
	Deployment of TGEN Pods in the Cluster - and test if its properly working	Completed	Trex Pod: Link (Use Trex.yaml) Docker Image: Link Prox Pod: Link Docker Image: Link
Test-Runs	Test -1 a. DUT (eBPF program) on Node-4 and TGEN in Node-4 b. Simple loopback Test		

	Test -2 a. K8S Cluster. b. L2 Fwd Pod c. AFXDP as CNI d. Use CNDP tool-chain?		
	Test - 3 a. K8S CLuster b. L2FWD Pod c. TGEn Pod d. AFXDP as CNI e. Use CNDP tool-chain?