Architecture Overview – Networking – Energy consumption monitoring

1. Kepler exporter uses eBPF to probe CPU, GPU, RAM performance counters and exposes them over time via HTTP
2. Prometheus periodically queries Kepler exporter for a new data
3. Grafana periodically queries Prometheus for anew data

Service name	Service type	Note
Vehicle API	NodePort	externalTrafficPolicy: Local Externally Accessible through Anycast/NodeIP:nodePort
Kserve Inference	ClusterIP	internalTrafficPolicy: Local
Kepler	ClusterIP	
Prometheus	ClusterIP	
Kserve	ClusterIP	
Kubeflow	ClusterIP	GUI accessible through Ingress
Minio Storage	ClusterIP	
Grafana	ClusterIP	GUI accessible through Ingress