Akraino Light Weight μMEC on AWS
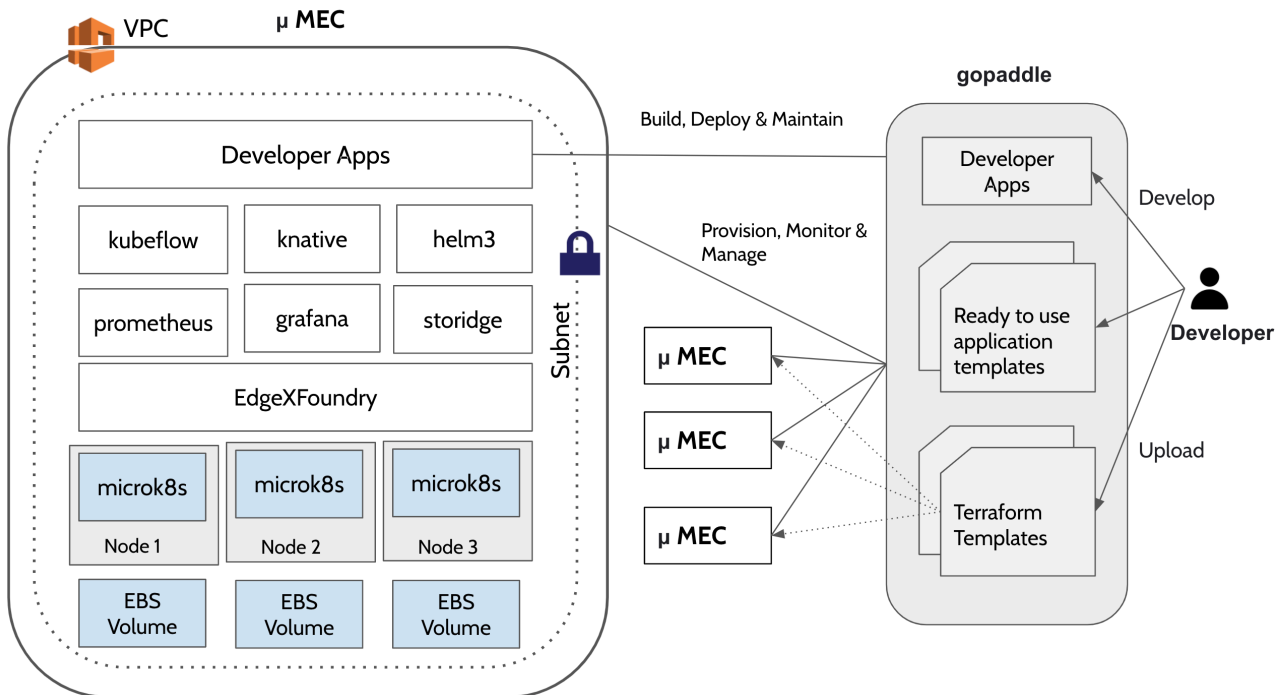
The purpose of this release is to automate the provisioning of ultra low latency light weight micro-MEC (μMEC) environment on AWS cloud and centrally manage multiple μMECs from a single dashboard. μMEC run on low foot print hardware and can cater to mission critical workloads. It takes an opinionated approach to spinning up an environment with pre-built configuration that are ready to use. It is cost effective compared to a fully configurable MEC environment as the and can be setup quickly.

The blueprint consists of microk8s as the light weight Kubernetes distribution. Microk8s' zero-ops capability offers all the Kubernetes networking and storage configurations out of the box with built-in add ons for serverless (knative) and machine learning workloads (kubeflow) etc. Terraform is used to automate the installation and configuration of a multi-node microk8s cluster on AWS VPC.

For a full reference of the architecure, refer to IEC Type 2 Release 5 Architecture.