

IEC Type 2 Release Notes for R5

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Akraino Release Notes for the IEC Blue Print

This document covers both Integrated Edge Cloud Type 1 & 2.

Summary

The purpose of this release is to automate the provisioning of ultra low latency **light weight** micro-MEC (MEC) environment on AWS cloud and centrally manage multiple MECs from a single dashboard. MEC 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.

Release Data

Deliverable

Software is available under this [IEC repo](#)

Blueprint System Requirements on AWS

Item	Capacity
Number of nodes	3
Node Size	t4g.medium - 2vCPUs - 4 GiB Memory
Disks in Storidge HA Clustering mode	NOT YET SUPPORTED 3 Disks per node - 100 GB each.
VPC	Pre-existing VPC
Subnet	Public (for now). Will switch to private subnet with Gateway configuration in future releases.
AMI	Ubuntu Server 18.04 LTS
Terraform	terraform_0.14.9

Kubernetes Environment Provisioned

Item	Version
Microk8s	1.21

What is available in the release ?

S.No	Tasks	Progress
1	Automated Provisioning of multi-node microk8s	COMPLETE
2	Install within a pre-existing VPC	COMPLETE

3	Dynamic template using Variables	COMPLETE
4	Restricted Security groups	TODO
5	Test for different regions	COMPLETE
6	Install and Configure Storidge	TODO
7	Install and Configure EdgeX Foundry (Release - Edinburgh , Version - 1.0.1)	COMPLETE
8	Bring up microk8s in HA mode	TODO
9	Configure Auto-scaling	TODO