

Infrastructure

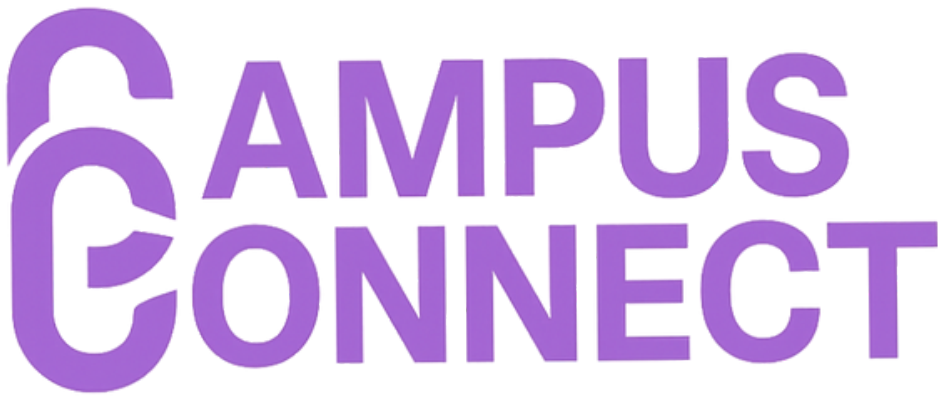
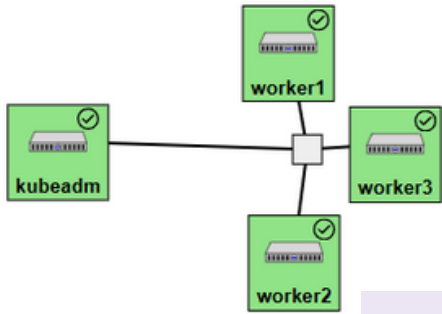
```
main.tf HCL

resource "cloudlab_portal_experiment" "cc2_cluster" {
  name           = "CampusConnect"
  wait_for_status = "ready"

  # kubeadm + worker1..workerN
  dynamic "rawpc" {
    for_each = toset(concat(
      ["kubeadm"],
      [for i in range(var.num_workers) : "worker${i + 1}"]
    ))
    content {
      name           = rawpc.key
      hardware_type  = var.hardware_type
      aggregate      = var.aggregate_map[var.aggregate]
      exclusive      = true
      routable_ip    = true
    }
  }

  # LAN with all nodes
  lan {
    name = "lan0"

    dynamic "interface" {
      for_each = toset(concat(
        ["kubeadm"],
        [for i in range(var.num_workers) : "worker${i + 1}"]
      ))
      content {
        node = interface.key
      }
    }
  }
}
```



EDWIN BISWAS, ALEX COOPER,
TYLER GEIGER, KADIN MATOTEK

OVERVIEW

Campus Connect is an application tailored for university students. It allows them to connect, collaborate, share, and study together. The app is similar to Discord, but with a focus on academic and campus collaboration.

campusconnectwcu.com



Repository

CI/CD

Use workflow from

Branch: main

Branch to deploy *

main

SSH user on nodes (CL username) *

tg996676

Number of worker nodes instantiated *

2

Select CloudLab aggregate *

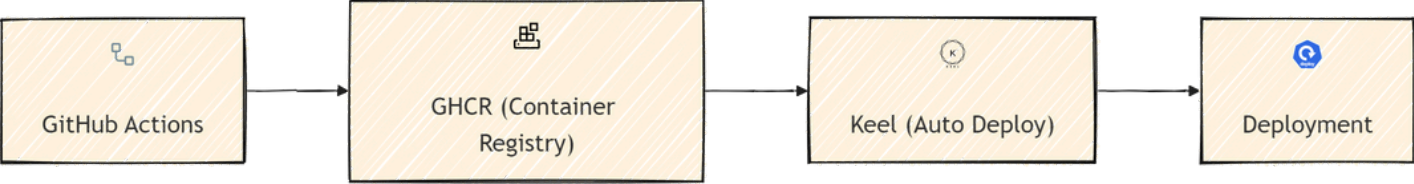
emulab.net

Select hardware type *

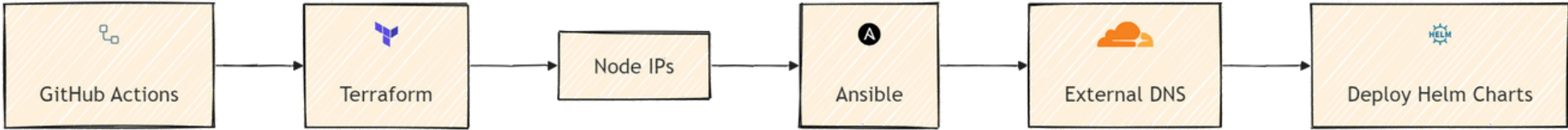
d710

Run workflow

Services CI/CD



Cluster CI/CD



Cluster

