GCP WORKSHOP DAY-1

└ Google Cloud Platform

\# console
\# cloud.google.com

> Activate
  └ :- Individual
  └ Unregistered individual

On demand
  └ Resources
  ┌ Compute → Compute Engine
  ├ Storage → Block
  └ N/W → VPC

\# New project
  └ name : devproject
  └ > Create

> select Project : devproject

\# └ Compute Engine > VM Instances

>> Cloud shell
$ gcloud projects list
$ gcloud projects create prodproject-13105
        -- name= prodproject

\# Billing
  └ Billing Account (Manage)
  └ <proj name> (:) → enable billing

API & Support
    ⌐ Compute Engine API
        ⌐ Enable API

$ gcloud services list --project devproject-lsz
    ⌐ lists all the activated svc in this project

$ gcloud services enable compute.googleapis.com
        --project <proj id>
    ⌐ activates the api for the project

devproject
  ⌐ compute Engine
    ⌐ VM instances
      ⌐ Create
        ⌐ name : os1
        ⌐ region : asia-south   ⌐ asia-southeast1
        ⌐ zone : ‾‾‾‾‾‾‾‾ -a
        ⌐ machine type : n1-standard -1
        ⌐ boot disk : centos7
              >> Create

    # os1 → Connect → open in browser window
    # vpc
      ⌐ firewall
        ⌐ Create firewall
          ⌐ Ingress ; Target : all instances ;
            destination : 0.0.0.0/0
              tcp : 80
              > Create

VPC network : demproject
    ⌐ Create VPC network
    ⌐ name : vpcdemproj
    ⌐ subnetng: lab1
    ⌐ a region : asia-southeast1
    ⌐ ip range : 10.0.1.0/24
    ⌐ create .

VPC network : prodproject
    ⌐ reg: us-east1 , ip: 10.0.2.0/24 sub: lab2

• Every project has their own dif src.

ACE
    ⌐ =
    ⌐ networking
    ⌐ vpc network interface : ~~vpcproject~~ prodproject
    ⌐ subnet : lab2

GCP WORKSHOP   DAY - 2

gcloud ~~compute~~ compute ssh OS1

K8S src
  └ GKE (Google Kubernetes ~~services~~ (Engine))

K8S Engine
  └ Create cluster
  { └ name : default-pool
default-pool { └ node v : 1.15.12
  { └ size (no of nodes) : ~~2~~ 1
nodes { └ container_type : cos (default)
  { └ series : N1

cluster { └ name : lw cluster kube
basic { └ location-type : regional
  { └ region : asia-south east1

• ~~GCP~~ GKE launches nodes per zone.
  If we ~~have~~ size = 1, they'll launch 3
  nodes in each zone.
  If ~~size~~ size = 3, then total 9 will launch

        > Create cluster

lw cluster kube >> Connect (cmd)
  └ paste this cmd in terminal
  └ gcloud container ———

#
kubectl get nodes
  └ 3 frame nodes.

kubectl run myesl --image=vimal13