* gsutil mb

make bucket

* gcloud app deploy ./<yaml> ./<yaml>

deploy app over app engine

* gcloud components install app-engine-python

install app engine dependency python

* gcloud app create --project=$DEVSHELL\_PROJECT\_ID

initialize app engine associated with project

* export <varName>= [region-subregion-zone]
* gloud container cluster create <clusterName> --zone $[zoneVarName] –num-nodes [nNode]
* gcloud deployment-manager deployments create <varDepl>--config <depl.yaml>
* kubctl version

returns version of kubernetes used

* gsutil acl ch -u allUsers:R

Access control list changed for view by everyone

* kubctl get services

[Name type intIP extIP Port Age]

* kubctl get pods

[Name Ready Status Restarts Age]

* kubctl get nodes

[Name Status Role Age version]

* kubctl get deployments

[Name Desired Current up-to-date available Age]

* kubctl create deploy <deploymentName> --image:<version>
* kubctl expose deployments < deploymentName > --port=[portNum] --type=[serviceType]
* kubctl scale deployment < deploymentName > --replicas=[Num]
* kubctl autoscale < deploymentName > --min=[nMin] --max=[nMax] --cpu=[%Usage]
* kubctl get pods -l “app=< deploymentName >” -o yaml

open yaml (config file) with name < deploymentName >

* dev\_appserver.py ./<app.yaml>

run app locally using app engine