$ sudo nano server.js

var http = require('http'),

fs = require('fs');

fs.readFileSync('./index.html', function (err, html) {

if (err) {

throw err;

}

http.createServer(function(request, response) {

response.writeHead(200, {"Content-Type": "text/html"});

response.write(html);

response.end();

}).listen(8080);

});

$ docker build -t final-project:v2 .

$ docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

a31db851a499 gcr.io/csye6225/final-project:v2 "/bin/sh -c 'node ser" About a minute ago Up About a minute 0.0.0.0:8080->8080/tcp angry\_ptolemy

$ docker tag final-project:v2 gcr.io/csye6225-165904/final-project:v2

$ gcloud docker -- push gcr.io/csye6225-165904/final-project:v2

The push refers to a repository [gcr.io/csye6225-165904/final-project]

7a95597b018f: Pushed

b1494187ae05: Pushed

381c97ba7dc3: Pushed

604c78617f34: Pushed

fa18e5ffd316: Pushed

0a5e2b2ddeaa: Pushed

53c779688d06: Pushed

60a0858edcd5: Pushed

b6ca02dfe5e6: Pushed

$ gcloud config set project csye6225-165904

$ gcloud container clusters create final-project \

> --num-nodes 2 \

> --machine-type n1-standard-1 \

> --zone us-central1-f

Creating cluster final-project...done.

Created [https://container.googleapis.com/v1/projects/csye6225-165904/zones/us-central1-f/clusters/final-project].

kubeconfig entry generated for final-project.

NAME ZONE MASTER\_VERSION MASTER\_IP MACHINE\_TYPE NODE\_VERSION NUM\_NODES STATUS

final-project us-central1-f 1.5.6 35.184.201.171 n1-standard-1 1.5.6 2 RUNNING

$ kubectl run final-project \

> --image=gcr.io/csye6225-165904/final-project:v1 \

> --port=8080

deployment "final-project" created

$ kubectl get deployments

NAME DESIRED CURRENT UP-TO-DATE AVAILABLE AGE

final-project 1 1 1 1 42s

$ kubectl get pods

NAME READY STATUS RESTARTS AGE

final-project-666356998-cmtls 1/1 Running 0 1m

$ kubectl cluster-info

Kubernetes master is running at https://35.184.201.171

GLBCDefaultBackend is running at https://35.184.201.171/api/v1/proxy/namespaces/kube-system/services/default-http-backend

Heapster is running at https://35.184.201.171/api/v1/proxy/namespaces/kube-system/services/heapster

KubeDNS is running at https://35.184.201.171/api/v1/proxy/namespaces/kube-system/services/kube-dns

kubernetes-dashboard is running at https://35.184.201.171/api/v1/proxy/namespaces/kube-system/services/kubernetes-dashboard

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

$ kubectl expose deployment final-project --type="LoadBalancer"

service "final-project" exposed

$ kubectl get services

NAME CLUSTER-IP EXTERNAL-IP PORT(S) AGE

final-project 10.47.254.113 <pending> 8080:30111/TCP 28s

kubernetes 10.47.240.1 <none> 443/TCP 7m

NAME CLUSTER-IP EXTERNAL-IP PORT(S) AGE

final-project 10.47.254.113 104.198.42.186 8080:30111/TCP 1m

kubernetes 10.47.240.1 <none> 443/TCP 8m