Networking and Cloud Computing - HW 8 - Command script

1. [PROJECT_ID] is referred as superb-heaven-155622 in following script
2. $ gcloud auth list
3. $ gcloud config list project[core]project = superb-heaven-155622
4. $ gcloud config set compute/zone us-central1-f
5. nano server.js – Enter the code mentioned in server.js file
6. node server.js
7. nano Dockerfile – Enter the configuration mentioned in Dockerfile
8. $ docker build -t gcr.io/superb-heaven-155622/hello-node:v1 .
9. $ docker run -d -p 8080:8080 gcr.io/superb-heaven-155622/hello-node:v1
10. Test the output on http//:localhost:8080
11. $ docker ps
12. $ docker stop [CONTAINER_ID]
13. $ gcloud docker -- push gcr.io/superb-heaven-155622/hello-node:v1
14. $ gcloud config set project superb-heaven-155622
15. $ gcloud container clusters create hello-world
    \> --num-nodes 2
    \> --machine-type n1-standard-1
    \> --zone us-central1-f
16. $ kubectl run hello-node \>
    --image=gcr.io/superb-heaven-155622/hello-node:v1 \>
    --port=8080
17. $ kubectl get deployments
18. $ kubectl get pods
19. $ kubectl cluster-info
20. $ kubectl expose deployment hello-node --type="LoadBalancer"
21. $ kubectl get services
22. Access the page using the external IP obtained in above example (GCE might take time to generate external IP)
23. $ kubectl scale deployment hello-node --replicas=3 and check if replicas created using $ kubectl get deployment
24. $ kubectl get pods
25. nano server.js to edit application to create a new version
26. $ docker build -t gcr.io/superb-heaven-155622/hello-node:v2 .
27. $ gcloud docker -- push gcr.io/superb-heaven-155622/hello-node:v2
28. $ kubectl edit deployment hello-node
29. Edit spec: containers: - image: gcr.io/superb-heaven-155622/hello-node:v1 to spec: containers: - image: gcr.io/superb-heaven-155622/hello-node:v2
30. $ kubectl delete service,deployment hello-node
31. $ gcloud container clusters delete hello-world --zone=us-central1-f and select Y
32. $ gsutil ls
33. $ gsutil rm -r gs://artifacts.superb-heaven-155622.appspot.com/