

Question 4

Steps

1)

Created Dockerfile :

```
FROM ubuntu:16.04
```

```
RUN apt-get update \
```

```
&& apt-get install -y nginx \
```

```
&& rm -rf /var/lib/apt/lists/* /tmp/* /var/tmp/* \
```

```
&& echo "daemon off;" >> /etc/nginx/nginx.conf
```

EXPOSE 80

```
CMD rm -rf /var/www/html/* && echo "<html><h1>$HOSTNAME</h1></html>" >>
```

```
/var/www/html/index.html && service nginx start
```

2)

Create your config file for kubernetes:

Create workload and attach all the services to it:

The screenshot displays the Google Cloud Platform console for a Kubernetes Engine deployment. The left sidebar shows the navigation menu with 'Workloads' selected. The main content area shows the 'Deployment details' for a deployment named 'nginx-1' in the 'default' namespace. The deployment is in a 'Ready' state with 1 updated, 1 ready, and 0 unavailable replicas. The pod specification is 'Revision 10, containers: nginx'. The active revisions table shows revision 10 with status 'OK'. The managed pods table shows 1 pod running. The exposing services table shows three services: 'nginx-1-6mddl' (NodePort), 'nginx-1-rgph4' (ClusterIP), and 'nginx-1-service' (LoadBalancer). The autoscaler section shows 1/5 min/max replicas.

Revision	Name	Status	Summary	Created on	Pods running/Pods total
10	nginx-1-6679bd5586	OK	nginx: ketavbhatt/nginx2:v10	Jul 31, 2019, 4:27:07 PM	1/1

Revision	Name	Status	Restarts	Created on
10	nginx-1-6679bd5586-28wkq	Running	0	Jul 31, 2019, 4:27:07 PM

Name	Type	Endpoints
nginx-1-6mddl	NodePort	10.0.30.203:80 TCP
nginx-1-rgph4	ClusterIP	10.0.27.61
nginx-1-service	LoadBalancer	35.239.130.158:80

Min/max replicas	1 / 5
Autoscaler	

