**Docker image for docker container**

1. npm install -g http-server
2. **http-server ./dist**
3. **Docker file content:-**

FROM node:10.13.0-alpine as builder

WORKDIR /usr/src/app

COPY package.json package-lock.json ./

RUN npm cache clean --force

COPY . ./

RUN npm install

RUN npm run build --prod

FROM nginx:alpine

COPY --from=builder /usr/src/app/dist /usr/share/nginx/html

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]

1. **Create Nginx Configuration File.**

* mkdir ./conf
* Default.config

server {

  listen 80;

  sendfile on;

  default\_type application/octet-stream;

  gzip on;

  gzip\_http\_version 1.1;

  gzip\_disable      "MSIE [1-6]\.";

  gzip\_min\_length   1100;

  gzip\_vary         on;

  gzip\_proxied      expired no-cache no-store private auth;

  gzip\_types        text/plain text/css application/json application/javascript application/x-javascript text/xml application/xml application/xml+rss text/javascript;

  gzip\_comp\_level   9;

  root /usr/share/nginx/html;

  location / {

    try\_files $uri $uri/ /index.html =404;

  }

}

1. docker build -t quizequstion .
2. docker run --rm quizequstion4 ls /usr/share/nginx/html
3. docker run --name quizquestion6 -d -p 4001:80 quizequstion
4. docker build --platform=linux/amd64 -t quizequstion:v1 .

**PUSH TO AZURE:-**

1. docker build --platform=linux/amd64 -t quizequstion:v1
2. **docker login myregistry.azurecr.io(Username and password)**
3. **docker tag quizequstion:v1 subrataquestionquiz.azurecr.io/quizequstion:v1**

**Working with kubernets:-**

1. **kubectl get nodes**
2. **kubectl create deployment quizquestion --image=subrataquestionquiz.azurecr.io/quizequstion:v1**
3. **kubectl get pods**
4. **kubectl delete deployment quizquestion**
5. **kubectl create deployment quizquestion --image=subrataquestionquiz.azurecr.io/quizequstion:v1 --replicas=5**
6. **kubectl get pods -o wide – used application running status in vms**
7. **kubectl scale deployment quizquestion --replicas=5**
8. **kubectl scale deployment quizquestion --replicas=5**
9. **kubectl expose deployment quizquestion --type=LoadBalancer --port=80**