

DOCKER ANSWERS

1. WRITE THE COMMANDS FOR THE FOLLOWING

- To create a container using nginx image : **docker run -itd --name cont-name -p 8081:80 nginx**
- To create a volume : **docker volume create volume-name**
- To get details of a container : **docker inspect cont-name**
- To attach a network to container : **docker network attach network-name**
- To remove the image : **docker rmi image-name**

2. WRITE A DOCKER FILE TO DEPLOY APPLICATION ON NGINX USING UBUNTU IMAGE

```
FROM ubuntu
RUN apt-get update
RUN apt-get install nginx -y
COPY index.html /var/www/html/
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```

3. WRITE A COMPOSE FILE TO DEPLOY MULTIPLE SERVICES

#Stage One: Development Application

FROM node:19-alpine **AS** base

WORKDIR /app

COPY package*.json ./

RUN npm install

COPY . .

CMD npm **start**

#Stage Two: Create the Production image

FROM base **AS** final

RUN npm install **--production**

COPY . .

CMD npm **start**

4. WRITE A JENKINS FILE TO DEPLOY THE DOCKER CONTAINER AND PUSH THE IMAGE INTO DOCKER HUB

Ans:

```
pipeline {  
    agent any  
  
    stages {  
        stage ("Code") {  
            steps {  
                git 'url'  
            }  
        }  
  
        stage ("Build Dockerfile") {  
            steps {
```

```
    sh 'docker build -t image1 .'
  }
}
stage("Docker Build & Push"){
  steps{
    script{
      withDockerRegistry(credentialsId: 'docker-password') {
        sh "docker tag image1 shaikmustafa/loki:mydockerimage"
        sh "docker push shaikmustafa/loki:mydockerimage"
      }
    }
  }
}
stage ("Deploy") {
  steps {
    sh 'docker run -d --name zomato -p 3000:3000 shaikmustafa/loki:mydockerimage'
  }
}
}
```

5. WRITE A DOCKER COMPOSE FILE TO DEPLOY MULTIPLE SERVICES IN SINGLE HOST

