ASSIGNMENT 4

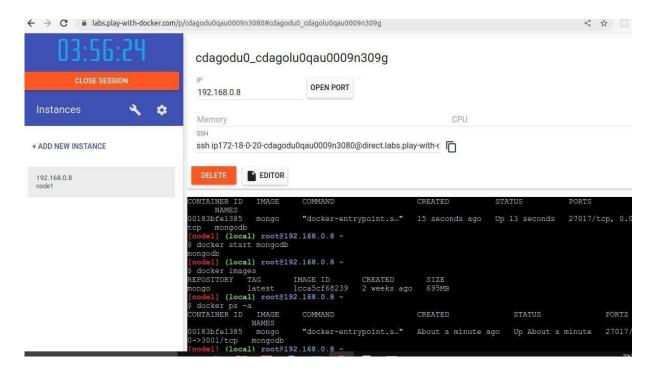
Pull image in docker:

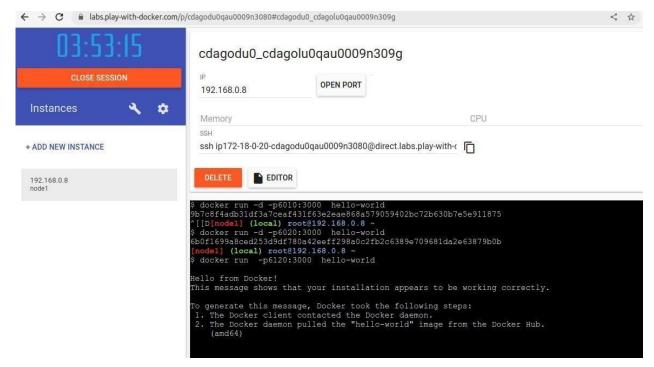
```
| Toot@admin:/home/ash/Desk... | O | root@admin:/home/ash/Desk... | O | root@admin:/ho
```

Run Docker:

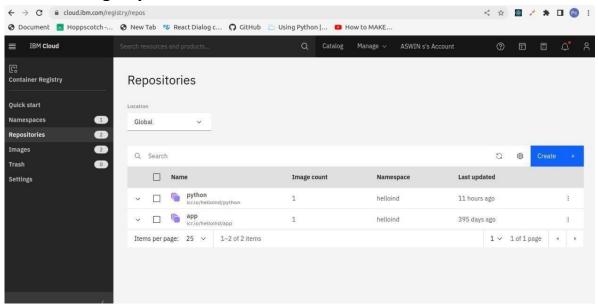
```
Login Succeeded
Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/ac
root@admin:/home/ash/Desktop/Flask ClassWorrk# docker run -p5000:5000 flakapp:1.0
Unable to find image 'flakapp:1.0' locally
docker: Error response from daemon: pull access denied for flakapp, repository does not exist or may require 'docker lo
quested access to the resource is denied.
See 'docker run --help'.
 root@admin:/home/ash/Desktop/Flask ClassWorrk# docker run -p5000:5000 -t flakapp:1.0
Unable to find image 'flakapp:1.0' locally
 docker: Error response from daemon: pull access denied for flakapp, repository does not exist or may require 'docker lo
quested access to the resource is denied.
See 'docker run --help'.
 root@admin:/home/ash/Desktop/Flask ClassWorrk# docker run -p5000:5000 -t flakapp
 Unable to find image 'flakapp:latest' locally
 docker: Error response from daemon: pull access denied for flakapp, repository does not exist or may require 'docker lo
quested access to the resource is denied.
See 'docker run --help'.
 root@admin:/home/ash/Desktop/Flask ClassWorrk# docker run -p5000:5000 -t flaskapp:1.0
docker: Error response from daemon: driver failed programming external connectivity on endpoint silly_bardeen (717385e0 d59728fle3577afe801b18edb0257c07b377889d): Bind for 0.0.0.0:5000 failed: port is already allocated.
 ERRO[0002] error waiting for container: context canceled
root@admin:/home/ash/Desktop/Flask ClassWorrk# docker run
                                                                                 -t flaskapp:1.0
    Serving Flask app 'app'
  * Debug mode: off
 VARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
  * Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.3:5000
172.17.0.1 - [23/0ct/2022 17:21:29] "GET / HTTP/1.1" 200 - 172.17.0.1 - [23/0ct/2022 17:21:29] "GET /favicon.ico HTTP, 172.17.0.1 - [23/0ct/2022 17:21:50] "GET / HTTP/1.1" 200 -
```

Docker Playground:





Container Registry:



Templates was Created successfully Welcomee

ha

KUBERNETES:

dashboard-adminuser.yaml

apiVersion: v1

kind:

ServiceAccount

metadata:

name: admin-user

namespace: kubernetes-dashboard

apiVersion: v1 kind: Secret metadata:

name: admin-user-token

namespace:

kubernetes-dashboard

annotations:

kubernetes.io/service-account.name:

admin-user type:

kubernetes.io/service-account-token

apiVersion: rbac.authorization.k8s.io/v1

kind: ClusterRoleBinding

metadata:

name: admin-user

roleRef:

apiGroup:

rbac.authorization.k8s.io kind:

ClusterRole

name: cluster-admin

subjects:

- kind:

ServiceAccount

name: admin-user

```
Flask-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: flask-app
spec:
 replicas: 3
 selector:
  matchLabels:
   app: flask-app
 template:
  metadata:
   labels:
    app: flask-app
  spec:
   containers:
    - name: flask-app-container
     image: flask-app-testing
     imagePullPolicy: Never
     ports:
      - containerPort: 5000
       protocol: TCP
Flask_ ingress.yaml:
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
 name: flask-app-ingress
 annotations:
 kubernetes.io/ingress.class:
 nginx
  nginx.ingress.kubernetes.io/ssl-redirect: "false"
spec:
 # ingressClassName:
 nginx rules:
  - http:
    paths:
 backend:
       service:
         name: flask-app-service
```

port:

namespace: kubernetes-dashboard

number: 5000 path: /

pathType: Prefix

Flask_service.yaml:

apiVersion: v1 kind: Service metadata:

name: flask-app-service

spec:

type: ClusterIP

ports:
- port:
5000
selector:

app: flask-app