

Assignment -4

DATE:	5 NOVEMBER 2022
TEAM ID:	PNT2022TMID40549
PROJECT NAME:	NUTRITION ASSISTANTAPPLICATION
Maximum Marks:	2 Marks

Question 1:

1. Pull an Image from docker hub and run it in docker playground

The screenshot displays the Docker Playground interface with two instances. The first instance, 'cdj6ik79_cdj6ilv91rrg00c7p9d0', is running Jenkins and shows a Java SignatureException. The second instance, 'cdj6ik79_cdj703v91rrg00c7p9og', is running Alpine Linux and shows the Docker version and a container run command.

Instance 1: cdj6ik79_cdj6ilv91rrg00c7p9d0

- IP: 192.168.0.18
- Memory: 73.90% (2.887GiB / 3.906GiB)
- CPU: 0.98%
- SSH: ssh ip172-18-0-24-cdj6ik791rrg00c7p9cg@direct.labs.play-v
- DELETE, EDITOR buttons

```
style='display:none'>java.security.SignatureException: Signature length not correct: got 512 but was expecting 256<br> at sun.security.rsa.RSASignature.engineVerify(RSASignature.java:189)<br> at java.security.Signature$Delegate.engineVerify(Signature.java:1219)<br> at java.security.Signature.verify(Signature.java:652)<br> at sun.security.x509.X509CertImpl.verify(X509CertImpl.java:444)<br> at sun.security.provider.certpath.BasicChecker.verifySignature(BasicChecker.java:166)<br> at sun.security.provider.certpath.BasicChecker.check(BasicChecker.java:147)<br> at sun.security.provider.certpath.PKIXMasterCertPathValidator.validate(PKIXMasterCertPathValidator.java:125)<br> caused by: java.security.cert.CertPathValidatorException: signature check failed<br> at sun.security.provider.certpath.PKIXMasterCertPathValidator.validate(PKIXMasterCertPathValidator.java:135)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:219)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:140)<br> at sun.security.provider.certpath.PKIXCertPathValidator.validate(PKIXCertPathValidator.java:140)<br> at java.security.cert.CertPathValidator.validate(CertPathValidator.java:292)<br> at org.jvnet.hudson.crypto.CertificateUtil.validatePath(CertificateUtil.java:93)<br> at jenkins.util.JSONSignatureValidator.verifySignature(JSONSignatureValidator.java:78)<br> at hudson.model.UpdateSite.verifySignature(UpdateSite.java:254)<br> at hudson.model.UpdateSite.updateData(UpdateSite.java:219)<br> at hudson.model.UpdateSite.updateDirectlyNow(UpdateSite.java:190)<br> at hudson.model.UpdateCenter.updateDefaultSite(UpdateCenter.java:2194)<br> at jenkins.install.SetupWizard.init(SetupWizard.java:174)<br> at jenkins.install.InstallState$3.initializeState(InstallState.java:105)<br> at jenkins.model.Jenkins.setInstallState(Jenkins.java:1062)<br> at jenkins.install.InstallUtil.proceedToNextStateFrom(InstallUtil.java:96)<br> at jenkins.model.Jenkins.<init>(Jenkins.java:952)<br> at hudson.model.Hudson.<init>(Hudson.java:86)<br> at hudson.model.Hudson.<init>(Hudson.java:82)<br> at hudson.WebAppMain$3.run(WebAppMain.java:235)<br></pre>

Nov 05, 2022 2:10:10 PM hudson.WebAppMain$3 run  
INFO: Jenkins is fully up and running



Instance 2: cdj6ik79_cdj703v91rrg00c7p9og



- IP: 192.168.0.18
- Memory: 1.45% (58.03MiB / 3.906GiB)
- CPU: 0.10%
- SSH: ssh ip172-18-0-24-cdj6ik791rrg00c7p9cg@direct.labs.play-v
- DELETE, EDITOR buttons



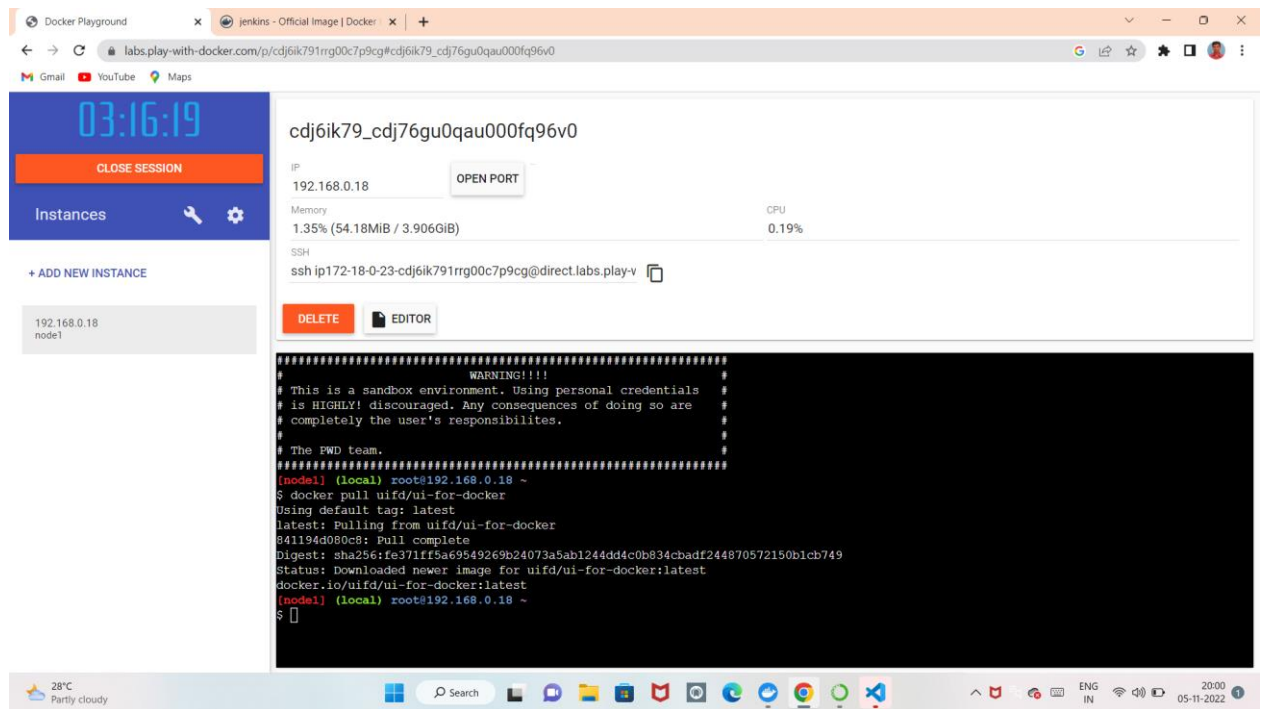
```
WARNING!!!!
This is a sandbox environment. Using personal credentials
is HIGHLY discouraged. Any consequences of doing so are
completely the user's responsibilities.

The FWD team.
=====
```



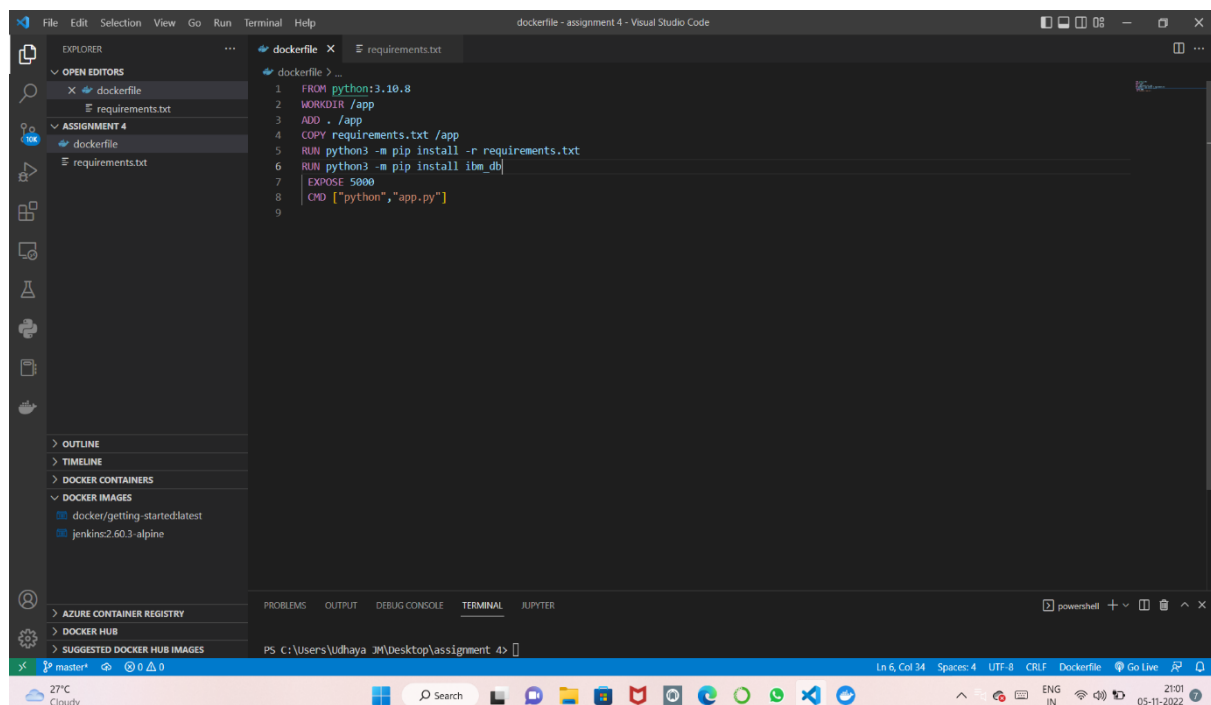
```
(node1) (local) root@192.168.0.18 ~
$ docker --version
Docker version 20.10.17, build 100c701
(node1) (local) root@192.168.0.18 ~
$ docker container run alpine echo "hello world"
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
213ec9aee27d: Pull complete
Digest: sha256:bc41182d7ef5ffc53a40b044e725193bc10142a1243f395ee852a8d9730fc2ad
Status: Downloaded newer image for alpine:latest
hello world
(node1) (local) root@192.168.0.18 ~
$ docker images
```

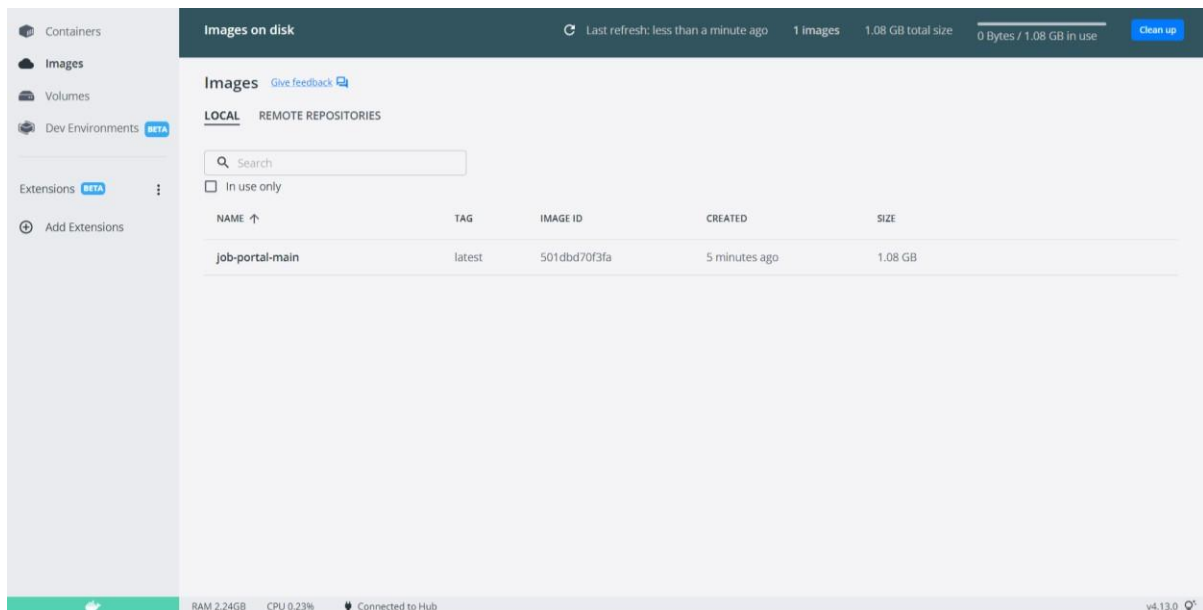

```



Question 2:

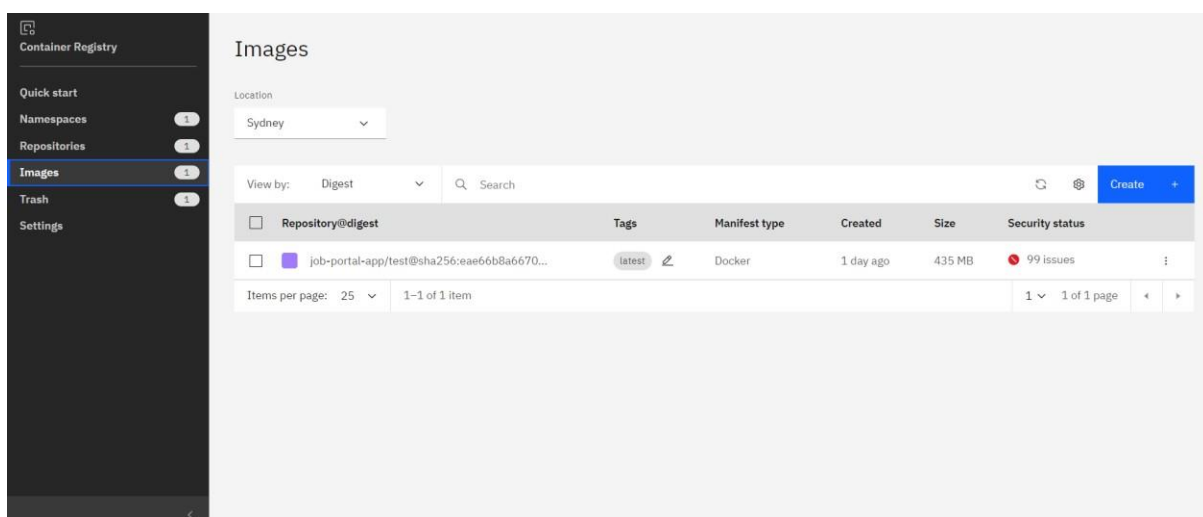
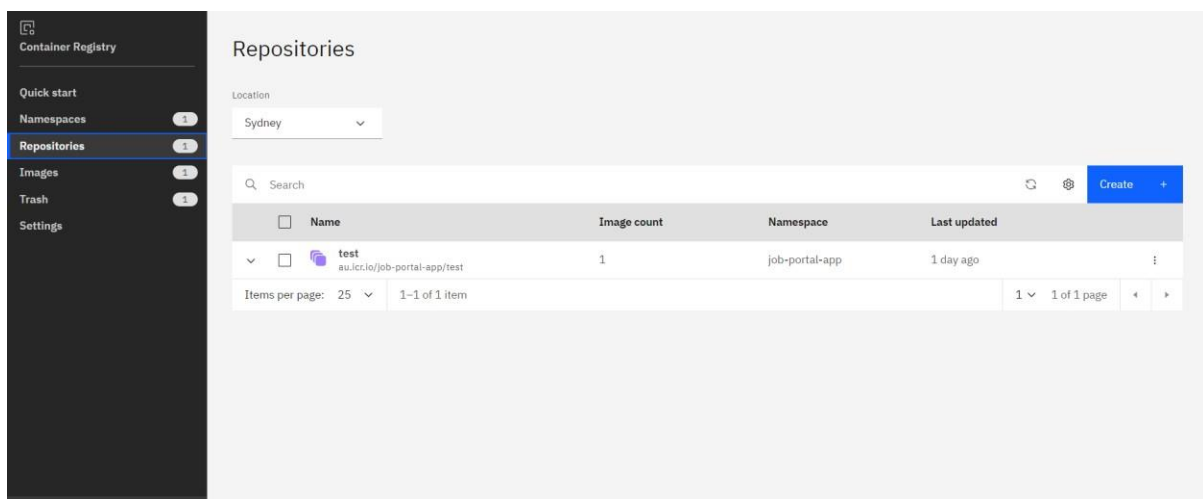
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.





Question 3:

3. Create a IBM container registry and deploy helloworld app or jobportalapp.



```
Command Prompt - docker run -p 5000:5000 au.icr.io/job-portal-app/test

C:\Users\user>docker push job-portal-main au.icr.io/job-portal-app/test
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage:  docker push [OPTIONS] NAME[:TAG]

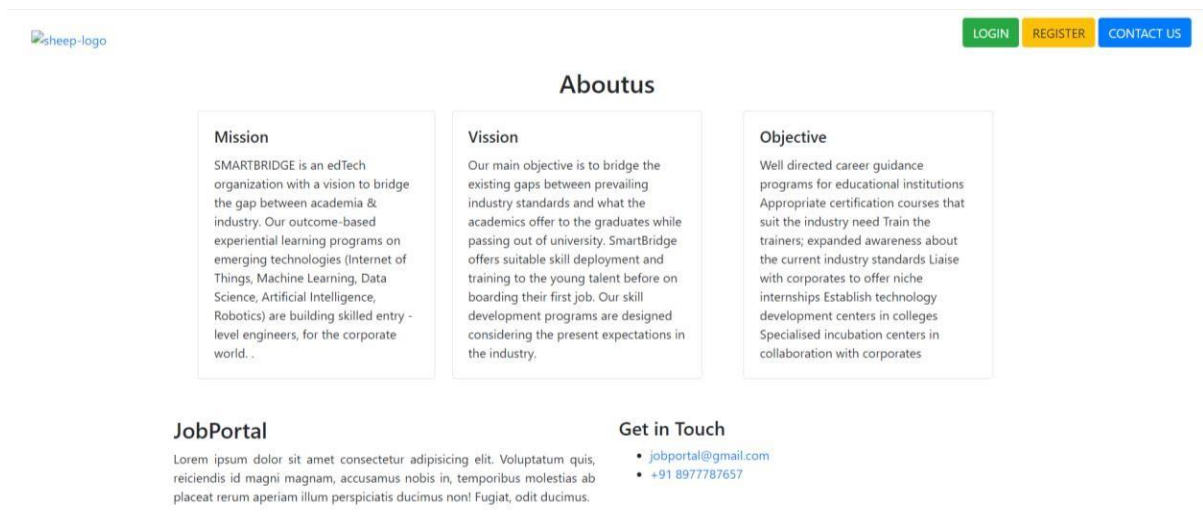
Push an image or a repository to a registry

C:\Users\user>docker tag job-portal-main au.icr.io/job-portal-app/test

C:\Users\user>docker push au.icr.io/job-portal-app/test
Using default tag: latest
The push refers to repository [au.icr.io/job-portal-app/test]
90ff7c020340: Mounted from job-portal-app/testrepo
1eb31c2cf4fb: Mounted from job-portal-app/testrepo
8667e693b201: Mounted from job-portal-app/testrepo
a34f7e8dc845: Mounted from job-portal-app/testrepo
789453578d11: Mounted from job-portal-app/testrepo
aadc808c19f6: Mounted from job-portal-app/testrepo
8ba9f69a8ba2: Mounted from job-portal-app/testrepo
3e60459ef9f: Mounted from job-portal-app/testrepo
1e18e7efcc2: Mounted from job-portal-app/testrepo
c3a8d593ed24: Mounted from job-portal-app/testrepo
2a504ed3be4: Mounted from job-portal-app/testrepo
8bf428bde72: Mounted from job-portal-app/testrepo
31892cc314cb: Mounted from job-portal-app/testrepo
11936051f93b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae66b8a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b size: 3259

C:\Users\user>docker pull au.icr.io/job-portal-app/test
Using default tag: latest
latest: Pulling from job-portal-app/test
Digest: sha256:eae66b8a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b
Status: Image is up to date for au.icr.io/job-portal-app/test:latest
au.icr.io/job-portal-app/test:latest

C:\Users\user>docker run -p 5000:5000 au.icr.io/job-portal-app/test
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [27/Oct/2022 13:43:21] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
```



Question 4:

4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and alsoexpose the same app to run in nodeport.

Clusters /

Normal

Expires in 30 days

Add tags

Help

Kubernetes dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps New

Expires in 30 days:

Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a [standard cluster](#).

Node status

1 of 1

Normal

Details

Add-on status

0 of 0

Normal

Details

Master status

Normal

Docs

Ingress status

Unknown

Docs

Details

Cluster ID

cdd9137f50h1ksau52o0

Version

1.23.13_1550

Infrastructure

Classic

Zones

Milan 01

Created

27/10/2022, 7:37 pm

Resource group

Default

Image security enforcement

Enable

Node health

Worker node details

LOGIN

REGISTER

CONTACT US

Aboutus

Mission

SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .

Vission

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

Well directed career guidance programs for educational institutions
Appropriate certification courses that suit the industry need
Train the trainers; expanded awareness about the current industry standards
Liaise with corporates to offer niche internships
Establish technology development centers in colleges
Specialised incubation centers in collaboration with corporates

JobPortal

Lorem ipsum dolor sit amet consectetur adipiscing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.

Get in Touch

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