Assignment -4

Docker and Kubernetes

Assignment Date	09 November 2022
Student Name	SHYAM PRASADH S
Student Roll Number	1919102151
Maximum Marks	2 Marks

1. Pull an image from docker hub and run it in docker Playground

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

Terminal window (C:\Windows\System32\cmd.exe):

```
=> [internal] load build definition from Dockerfile                                                    1.0s
=> => transferring dockerfile: 328                                                                      0.3s
=> [internal] load .dockerignore                                                                        1.1s
=> => transferring context: 28                                                                          0.0s
=> [internal] load metadata for docker.io/library/python:3.6                                            9.1s
=> [auth] library/python:pull token for registry-1.docker.io                                            0.0s
=> [internal] load build context                                                                        1.8s
=> => transferring context: 6878                                                                        0.0s
=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc    639.1s
=> => resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc    1.1s
=> => sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB           0.0s
=> => sha256:d097a4907a8ec079df5ac31872359c2de510f82214c0448e926393b376d3b60d 2.22kB / 2.22kB           0.0s
=> => sha256:54260638d07c5e3ad24c6e21fc889abbc8486a27634c0892086ff71f3f44b104 9.27kB / 9.27kB           0.0s
=> => sha256:0e29546d541cdbd309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3 54.92MB / 54.92MB         120.8s
=> => sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd 5.15MB / 5.15MB           28.5s
=> => sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56 10.87MB / 10.87MB         86.0s
=> => sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57MB / 54.57MB         253.2s
=> => sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fefd9112efc7e4d3c78f7 196.51MB / 196.51MB       446.1s
=> => sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743 6.29MB / 6.29MB           138.1s
=> => extracting sha256:0e29546d541cdbd309281d21a73a9d1db78665c1b95b74f32b009e0b77a6e1e3                 27.3s
=> => sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB         187.6s
=> => extracting sha256:9b829c73b52b92b97d5c07a54fb0f3e921995a296c714b53a32ae67d19231fcd                 2.3s
=> => extracting sha256:cb5b7ae361722f070eca53f35823ed21baa85d61d5d95cd5a95ab53d740cdd56                 4.0s
=> => sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7 235B / 235B               194.2s
=> => sha256:c4f42be2be53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f 2.21MB / 2.21MB           203.8s
=> => extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793                 27.3s
=> => extracting sha256:6f9f74896dfa93fe0172f594faba85e0b4e8a0481a0fefd9112efc7e4d3c78f7                131.4s
=> => extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62dada823124dc743                 8.2s
=> => extracting sha256:9fddfdc56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752                11.3s
=> => extracting sha256:404f02044bac0432ca522cbb9f254b1c91fcea6806bfeef0be0b243b2f31bab7                 0.0s
=> => extracting sha256:c4f42be2be53b900ebffc040c1df13de538434ccc5f5d954a56848a6169a3a3f                 2.2s
=> [2/6] WORKDIR /app                                                                                    2.8s
=> [3/6] ADD . /app                                                                                      2.7s
=> [4/6] COPY requirements.txt /app                                                                      2.6s
=> [5/6] RUN python3 -m pip install -r requirements.txt                                                 372.2s
=> [6/6] RUN python3 -m pip install ibm_db                                                               9.7s
=> exporting to image                                                                                    7.8s
=> => exporting layers                                                                                   6.8s
=> => writing image sha256:1756719486df002fad5dae305c5221513f2ff2d1b49a8d242b22a28af0379f19              0.2s
=> => naming to docker.io/library/job-portal-main                                                        0.1s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\VK-PC\Desktop\job-portal-main>
```

Docker Desktop window:

Docker Desktop — Upgrade plan — parameshwarn

- Containers
- Images
- Volumes
- Dev Environments BETA
- Extensions BETA
- Add Extensions

Images on disk — Last refresh: about 1 hour ago — 1 images — 0 Bytes total size — Refresh to see disk usage — Clean up

Images Give feedback

LOCAL   REMOTE REPOSITORIES

Search

☐ In use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
job-portal-main	latest	1756719486df	less than a minute ago	1.08 GB

RAM 2.53GB   CPU 1.56%   Connected to Hub   v4.13.0