

## Assignment - 4

### Kubernetes and Docker

Assignment Date	02 November 2022
Student Name	Manikandan R
Student Roll Number	2116190801099
Maximum Marks	2 Marks

#### Question-1:

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

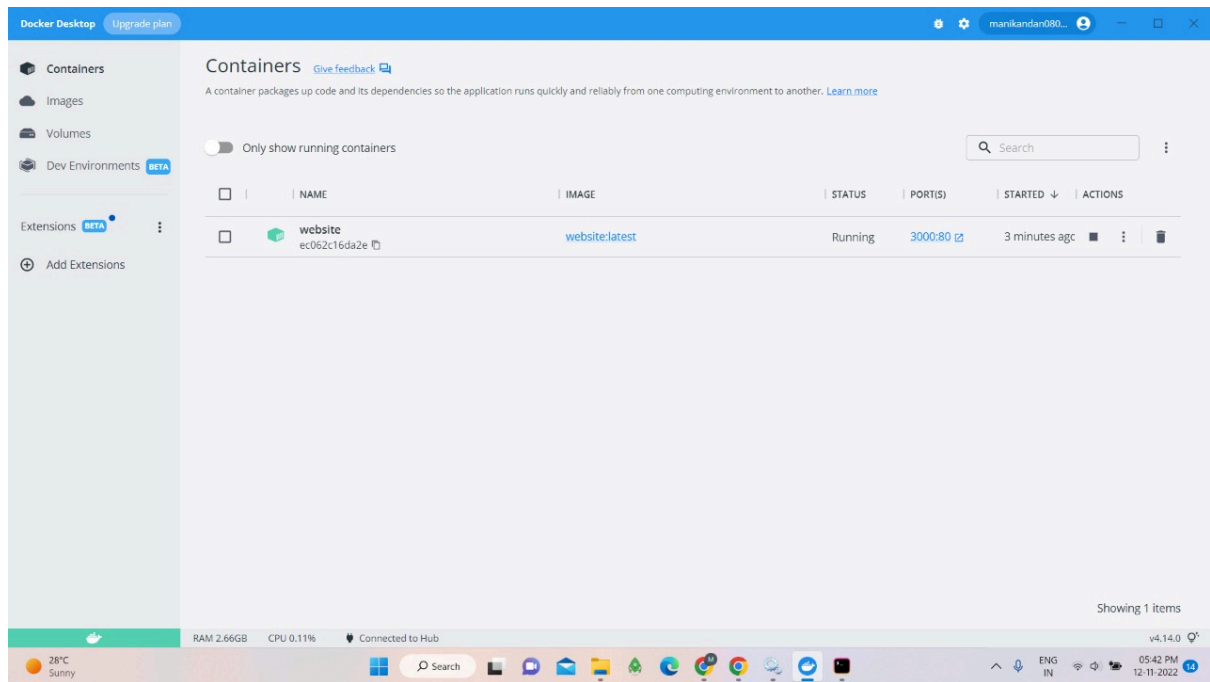
```
MINGW64/c:/Users/Manikandan/Desktop/Website

Manikandan@DESKTOP-3HFKQPS MINGW64 ~/Desktop/Website (main)
$ docker build -t website .
[+] Building 1.8s (7/7) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> -- transferring dockerfile: 82B                                                0.0s
=> [internal] load .dockerignore                                                  0.1s
=> -- transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/httpd:latest                  1.3s
=> [internal] load build context                                                 0.0s
=> -- transferring context: 21.07kB                                              0.0s
=> CACHED [1/2] FROM docker.io/library/httpd@sha256:5f4a6551b61599de5dfb7f48b9e97e4153232eb52babe883c2f47f 0.0s
=> [2/2] COPY . /usr/local/apache2/htdocs/                                       0.1s
=> exporting to image                                                            0.1s
=> -- writing image sha256:c90d41677c0d74ced0fe332bc313e08126f7a15c55824b622f172a514ed6d85 0.0s
=> -- naming to docker.io/library/website                                       0.0s

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

Manikandan@DESKTOP-3HFKQPS MINGW64 ~/Desktop/Website (main)
$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
website             latest     c90d41677c0d  16 seconds ago 14.9MB
<none>              <none>     cac6368e7b01  49 minutes ago 14.9MB
docker/getting-started latest     c590f98fd791  7 months ago  26.9MB

Manikandan@DESKTOP-3HFKQPS MINGW64 ~/Desktop/Website (main)
$ docker run -itd -p 3000:80 --name website website
```



## Question-2:

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

```

MINGW64~/Users/Manikandan/Desktop/website

Manikandan@DESKTOP-3HFVQPS MINGW64 ~/Desktop (main)
$ cd website

Manikandan@DESKTOP-3HFVQPS MINGW64 ~/Desktop/website (main)
$ docker build -t website /
[*] Building 0.1s (2/2) FINISHED
-> [internal] load build definition from Dockerfile                                0.1s
-> transferring dockerfile: 2B                                                    0.0s
-> [internal] load .dockerignore                                                    0.1s
-> transferring context: 2B                                                        0.0s
failed to solve with frontend dockerfile.v0: failed to read dockerfile: open /var/lib/docker/tmp/buildkit-mount2544439778/Dockerfile: no such file or directory

Manikandan@DESKTOP-3HFVQPS MINGW64 ~/Desktop/website (main)
$ docker build -t website .
[*] Building 45.5s (8/8) FINISHED
-> [internal] load build definition from Dockerfile                                0.0s
-> transferring dockerfile: 84B                                                    0.0s
-> [internal] load .dockerignore                                                    0.0s
-> transferring context: 2B                                                        0.0s
-> [internal] load metadata for docker.io/library/httpd:latest                    5.3s
-> [auth] library/httpd:pull token for registry-1.docker.io                       0.0s
-> [internal] load build context                                                    0.1s
-> transferring context: 21.08kB                                                    0.0s
-> [1/2] FROM docker.io/library/httpd@sha256:5fa9551b6115bde54fb7f6bcb9b7d4153232eb52b6b683a21474c8bdf 39.7s
-> resolve docker.io/library/httpd@sha256:5fa9551b6115bde54fb7f6bcb9b7d4153232eb52b6b683a21474c8bdfc 0.1s
-> sha256:b35f6e4ce3b079d81e487d1f3a77eb5aee5127bde9588387e7a77c5952a2 1.37kB / 1.37kB 0.0s
-> sha256:f4d73522ec5d867ba0974e091d120c12329320a45710f1a073a1e456ae 9.06kB / 9.06kB 0.0s
-> sha256:e9093320a91a7b3ca35f7e4d76c7a3c62b7a0c35c5f625eb6d9d23c5b 31.49kB / 31.49kB 37.5s
-> sha256:ee55c0d8c9f0e6d47b6d46fea934c81483e413871897801c1ca0a17c2da 376B / 376B 3.1s
-> sha256:bc6e6bea7eaa1781551a128b0d6eb7ab5574805586e65099a50ceba7c6ef9f 1.72MB / 1.72MB 14.6s
-> sha256:5f495316c12594c9f0774b3e97f4133232b0520a0e63c2477fc0b06fc33e 1.96kB / 1.96kB 0.0s
-> sha256:5b0e11c0c0b083d745707a011365ee0977b0d4a710e454da0b0e09 21.57kB / 21.57kB 11.1s
-> sha256:e550a5380898d7e42caab34ab4fc75dfe292b6537689c00ff675131c0ad 204B / 204B 15.8s
-> extracting sha256:e9995326091a77b3ca352fa0d76c7a3c62b7a0c35c5f625eb6d9d23c5b 1.0s
-> extracting sha256:ee55c0d8c9f0e6d47b6d46fea934c81483e413871897801c1ca0a17c2da 0.0s
-> extracting sha256:bc6e6bea7eaa1781551a128b0d6eb7ab5574805586e65099a50ceba7c6ef9f 0.1s
-> extracting sha256:5d0f831d3c0b983d383707a7e11387ee9170eb44e710ef4544a900d4599 0.5s
-> extracting sha256:e550a5380898d7e42caab34ab4fc75dfe292b6537689c00ff675131c0ad 0.0s
-> [2/2] COPY --from=local/apache2 /etc/ssl/certs/ /etc/ssl/certs/ 0.1s
-> exporting to image 0.0s
-> exporting layers 0.0s
-> writing image sha256:cac358e7b01ca70c740d9e7843c229d5eed706247077382b03274e946d7deb 0.0s
-> naming to docker.io/library/website 0.0s

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

Manikandan@DESKTOP-3HFVQPS MINGW64 ~/Desktop/website (main)

```

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