

## Sprint - 4 Docker – Convert into Image and Container

```
C:\Windows\System32\cmd.exe X + v
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kishore kumar\Desktop\Pda>docker build -t pda .
[*] Building 219.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 208B                                              0.0s
=> [internal] load .dockerignore                                                 0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/python:3.10.6                1.0s
=> [internal] load build context                                                0.0s
=> => transferring context: 3.33kB                                             0.0s
=> [1/6] FROM docker.io/library/python:3.10.6@sha256:745efd7b7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb83e6aa 0.0s
=> CACHED [2/6] WORKDIR /app                                                    0.0s
=> CACHED [3/6] COPY requirements.txt ./                                         0.0s
=> CACHED [4/6] RUN pip install -r requirements.txt                             0.0s
=> [5/6] RUN pip install ibm_db                                                216.5s
=> [6/6] COPY . .                                                                0.1s
=> => exporting to image                                                        1.0s
=> => exporting layers                                                         1.0s
=> => writing image sha256:13a3f96dea2de5af79dc3f04d957524f9aa54912be56b1db9bb3104eb024bdac 0.0s
=> => naming to docker.io/library/pda                                          0.0s

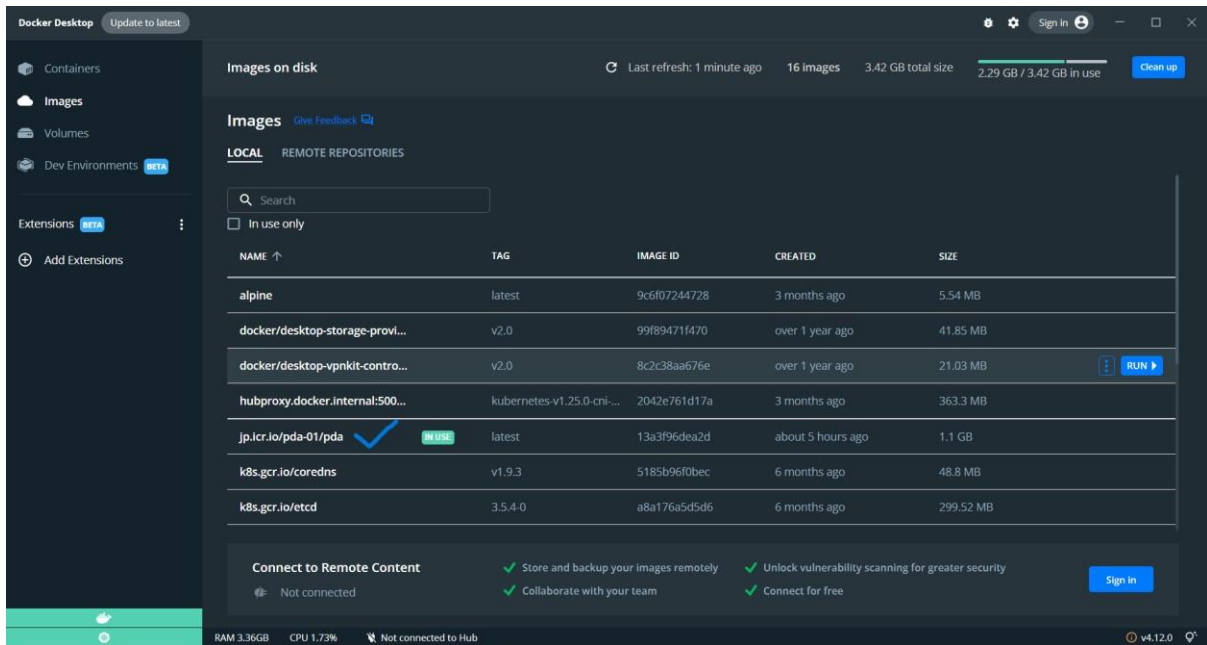
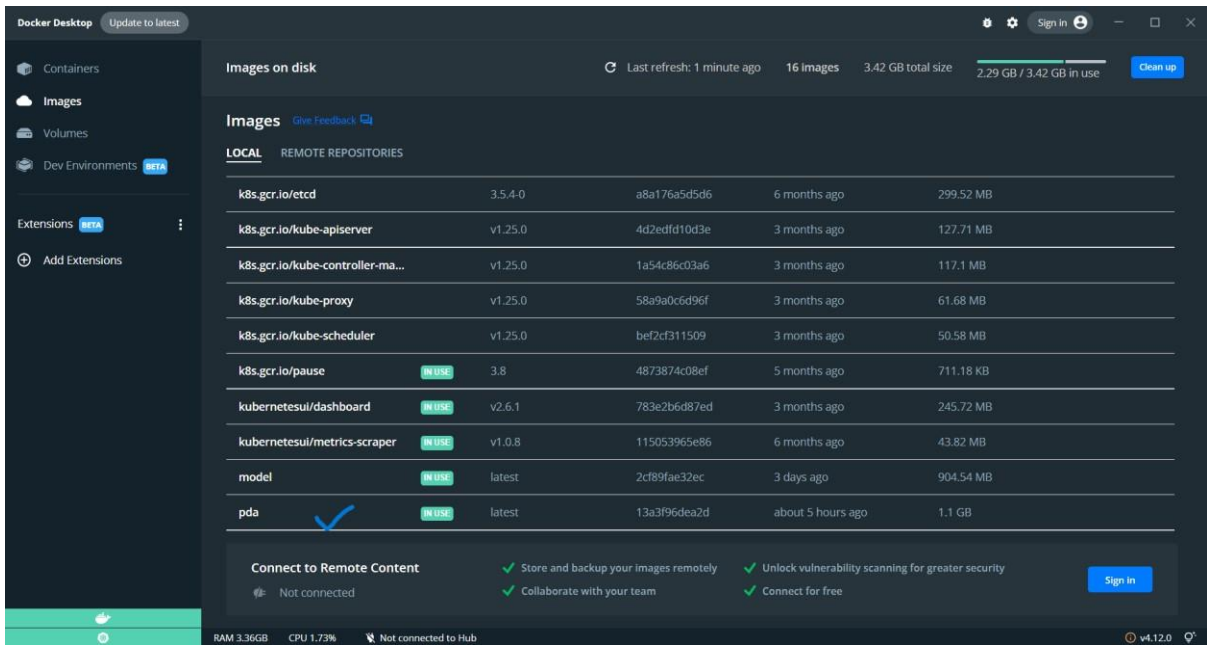
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\kishore kumar\Desktop\Pda>
```

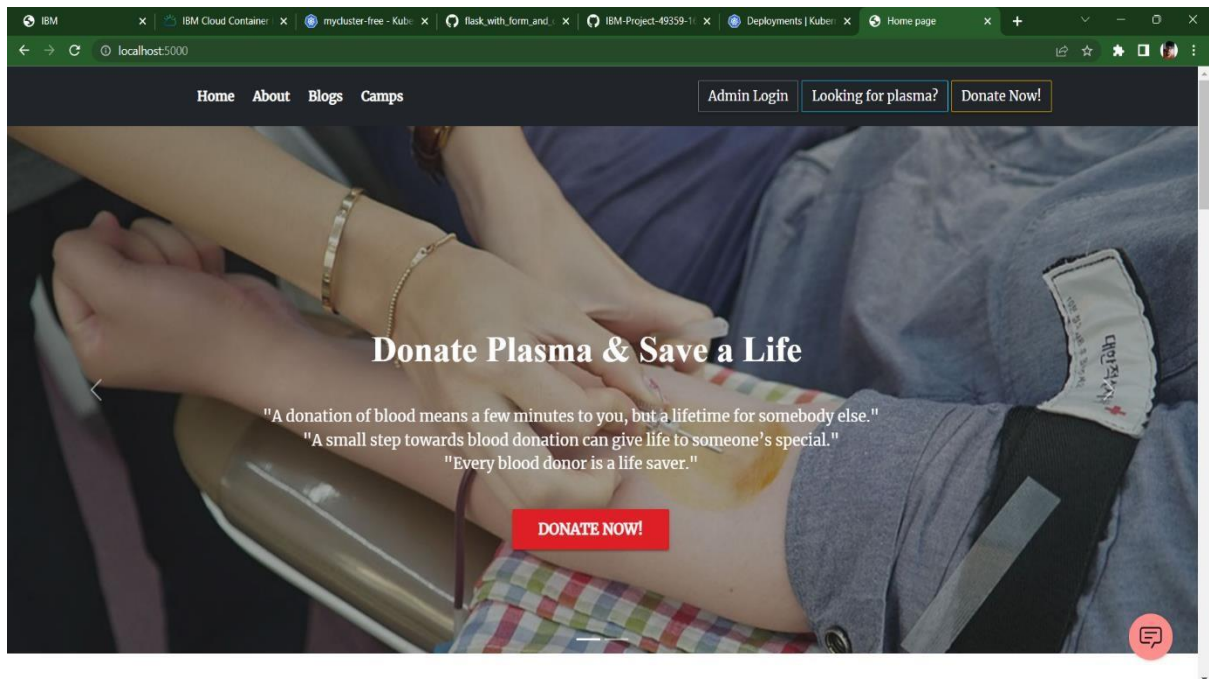
```
C:\Windows\System32\cmd.exe X + v
=> [internal] load .dockerignore                                                0.0s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/python:3.10.6                1.8s
=> [internal] load build context                                                0.0s
=> => transferring context: 3.33kB                                             0.0s
=> [1/6] FROM docker.io/library/python:3.10.6@sha256:745efd7b7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb83e6aa 0.0s
=> CACHED [2/6] WORKDIR /app                                                    0.0s
=> CACHED [3/6] COPY requirements.txt ./                                         0.0s
=> CACHED [4/6] RUN pip install -r requirements.txt                             0.0s
=> [5/6] RUN pip install ibm_db                                                216.5s
=> [6/6] COPY . .                                                                0.1s
=> => exporting to image                                                        1.0s
=> => exporting layers                                                         1.0s
=> => writing image sha256:13a3f96dea2de5af79dc3f04d957524f9aa54912be56b1db9bb3104eb024bdac 0.0s
=> => naming to docker.io/library/pda                                          0.0s

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

C:\Users\kishore kumar\Desktop\Pda>docker run -p 5000:5000 pda
* Serving Flask app 'app'
* Debug mode: on
WARNING: 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
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 877-205-231
```



## Running at Localhost



## IBM Cloud Container Registry

### Pushing to IBM Container Registry

```
C:\Windows\System32\cmd.exe
Region: jp-tok
User: 510919205019@smartinternz.com
Account: Kishore kumar S's Account (0e2639301f494b028829dd08959c8bbd)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

New version 2.12.1 is available.
Change logs: https://github.com/IBM-Cloud/ibm-cloud-cli-release/releases/tag/v2.12.1
TIP: use 'ibmcloud config --check-version=false' to disable update check.

Do you want to update? [y/N] > N

C:\Users\kishore kumar\Desktop\Pda>ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK

C:\Users\kishore kumar\Desktop\Pda>docker push jp.icr.io/pda-01/pda
Using default tag: latest
The push refers to repository [jp.icr.io/pda-01/pda]
09487d044338: Pushed
29ae4da519b9: Pushed
20a1b0f17d6b: Pushed
292ca2df96f5: Pushed
dcblae713b4: Mounted from mod-01/ibm-db2-docker
bfc1deb8136e: Mounted from mod-01/ibm-db2-docker
1f123186824c: Mounted from mod-01/ibm-db2-docker
3d6eb1152931: Mounted from mod-01/ibm-db2-docker
100796cdf3b1: Mounted from mod-01/ibm-db2-docker
54acb5a6fa0b: Mounted from mod-01/ibm-db2-docker
8d51c618126f: Mounted from mod-01/ibm-db2-docker
9f6e4d46744: Mounted from mod-01/ibm-db2-docker
a89dd1d47b5a1: Mounted from mod-01/ibm-db2-docker
655ed1b7a428: Mounted from mod-01/ibm-db2-docker
latest: digest: sha256:7e60b8c662fa6836bed998ea2f97a3a31e7ddf131dd7096a2eecd8288bbf27 size: 3265

C:\Users\kishore kumar\Desktop\Pda>
```

