

Phase-5 Practice Project: Assisted Practice -

1. Build a Custom Docker Image.

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1992]
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C:\Users\Me>docker --v
Docker version 24.0.2, build cb74dfc

C:\Users\Me>docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE

C:\Users\Me>wsl --update
Installing: Windows Subsystem for Linux
Windows Subsystem for Linux has been installed.

C:\Users\Me>docker --v
Docker version 24.0.2, build cb74dfc

C:\Users\Me>docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE

C:\Users\Me>git clone https://github.com/Anuj1990/Docker.git
Cloning into 'Docker'...
remote: Enumerating objects: 168, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 168 (delta 47), reused 33 (delta 33), pack-reused 118
Receiving objects: 100% (168/168), 63.86 KiB | 357.00 KiB/s, done.
Resolving deltas: 100% (71/71), done.

C:\Users\Me>dir
Volume in drive C has no label.
Volume Serial Number is 3468-598C

Directory of C:\Users\Me

28-07-2023  09:33    <DIR>          .
30-01-2023  10:34    <DIR>          ..
21-12-2021  17:12    <DIR>          .android
12-09-2022  00:23                175 .angular-config.json
10-05-2023  17:33                1,603 .bash_history
17-07-2023  10:50    <DIR>          .cache

C:\Users\Me>
```

```
Command Prompt
28-07-2023  09:33    <DIR>          .
30-01-2023  10:34    <DIR>          ..
21-12-2021  17:12    <DIR>          .android
12-09-2022  00:23                175 .angular-config.json
10-05-2023  17:33                1,603 .bash_history
17-07-2023  10:50    <DIR>          .cache
09-06-2022  00:56    <DIR>          .conda
08-12-2021  09:49                25 .condarc
08-12-2021  09:49    <DIR>          .continuum
27-07-2023  13:08    <DIR>          .docker
13-05-2023  16:17    <DIR>          .eclipse
03-05-2023  15:23                52 .gitconfig
16-06-2023  17:44                2,206 .h2.server.properties
08-06-2022  22:42    <DIR>          .idlerc
09-06-2022  00:51    <DIR>          .ipynb_checkpoints
08-12-2021  22:20    <DIR>          .ipython
21-12-2021  17:15    <DIR>          .jdk
07-04-2022  12:08    <DIR>          .jupyter
01-04-2022  19:55    <DIR>          .lemninx
03-05-2023  17:04                20 .lessht
16-05-2023  12:35    <DIR>          .local
01-04-2022  19:52    <DIR>          .m2
23-03-2022  00:29    <DIR>          .matplotlib
24-04-2023  18:46    <DIR>          .ms-ad
01-03-2022  10:46                54 .node_repl_history
25-07-2023  14:11    <DIR>          .p2
16-05-2023  10:57    <DIR>          .redhat
04-07-2023  13:12    <DIR>          .rsp
08-12-2021  18:49    <DIR>          .spyder-py3
01-04-2022  19:59    <DIR>          .sts4
19-06-2023  10:48    <DIR>          .vscode
03-01-2022  23:57                5,377 1,2,3,4.ipynb
03-01-2022  22:55                1,224 11.ipynb
03-01-2022  16:11                91,602 17b87bbe625dec1db8fe5ec4684caba3.jpg
04-12-2021  16:01    <DIR>          3D Objects
03-01-2022  23:28                3,707 5,6.ipynb
03-01-2022  23:31                3,011 7.ipynb
03-01-2022  23:52                4,859 8,9,10.ipynb
30-01-2023  10:39    <DIR>          Contacts
```

```
Command Prompt
44 File(s)          778,911 bytes
47 Dir(s)  78,324,137,984 bytes free

C:\Users\Me>cd Docker

C:\Users\Me\Docker>dir
Volume in drive C has no label.
Volume Serial Number is 3468-598C

Directory of C:\Users\Me\Docker

28-07-2023  09:33  <DIR>          .
28-07-2023  09:33  <DIR>          ..
28-07-2023  09:33  <DIR>          .github
28-07-2023  09:33                535 Dockerfile
28-07-2023  09:33                756 Jenkinsfile
28-07-2023  09:33                1,542 Kubernetes
28-07-2023  09:33                11,527 LICENSE
28-07-2023  09:33                1,242 NOTICE.md
28-07-2023  09:33                224 README.md
28-07-2023  09:33                1,416 simple-app-task-def.json
28-07-2023  09:33  <DIR>          src
                7 File(s)          17,242 bytes
                4 Dir(s)  78,324,137,984 bytes free

C:\Users\Me\Docker>dir src
Volume in drive C has no label.
Volume Serial Number is 3468-598C

Directory of C:\Users\Me\Docker\src

28-07-2023  09:33  <DIR>          .
28-07-2023  09:33  <DIR>          ..
28-07-2023  09:33  <DIR>          assets
28-07-2023  09:33                1,484 index.php
                1 File(s)          1,484 bytes
                3 Dir(s)  78,324,137,984 bytes free

C:\Users\Me\Docker>dir
Volume in drive C has no label.
```

```
Command Prompt

Directory of C:\Users\Me\Docker\src

28-07-2023  09:33  <DIR>          .
28-07-2023  09:33  <DIR>          ..
28-07-2023  09:33  <DIR>          assets
28-07-2023  09:33                1,484 index.php
                1 File(s)          1,484 bytes
                3 Dir(s)  78,324,137,984 bytes free

C:\Users\Me\Docker>dir
Volume in drive C has no label.
Volume Serial Number is 3468-598C

Directory of C:\Users\Me\Docker

28-07-2023  09:33  <DIR>          .
28-07-2023  09:33  <DIR>          ..
28-07-2023  09:33  <DIR>          .github
28-07-2023  09:33                535 Dockerfile
28-07-2023  09:33                756 Jenkinsfile
28-07-2023  09:33                1,542 Kubernetes
28-07-2023  09:33                11,527 LICENSE
28-07-2023  09:33                1,242 NOTICE.md
28-07-2023  09:33                224 README.md
28-07-2023  09:33                1,416 simple-app-task-def.json
28-07-2023  09:33  <DIR>          src
                7 File(s)          17,242 bytes
                4 Dir(s)  78,324,133,888 bytes free

C:\Users\Me\Docker>
```

```
Command Prompt
C:\Users\Me\Docker>docker run -d --name MyContainer -p 80:80 phpcode
6d02829b804181b58f1fcf57d615bfc185f31c412b56c50c99aaeda818dfb54c

C:\Users\Me\Docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                NAMES
6d02829b8041   phpcode   "/usr/sbin/apache2 -..." About a minute ago Up About a minute   0.0.0.0:80->80/tcp   MyContainer

C:\Users\Me\Docker>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
phpcode        latest    bf22843a5518   17 minutes ago 276MB

C:\Users\Me\Docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                NAMES
6d02829b8041   phpcode   "/usr/sbin/apache2 -..." 12 minutes ago Up 12 minutes   0.0.0.0:80->80/tcp   MyContainer

C:\Users\Me\Docker>docker stop 6d02829b8041
6d02829b8041

C:\Users\Me\Docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                NAMES

C:\Users\Me\Docker>docker start 6d02829b8041
6d02829b8041

C:\Users\Me\Docker>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                NAMES
6d02829b8041   phpcode   "/usr/sbin/apache2 -..." 16 minutes ago Up 3 seconds     0.0.0.0:80->80/tcp   MyContainer

C:\Users\Me\Docker>
```

Simple PHP App

Congratulations

Your PHP application is now running on a container in Docker Swarm

The Kubernetes Docker container is running on 6d02829b8041 with PHP version 8.1.2-1ubuntu2.13.