Worksheet 1.2

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Subject Name: Containerization with Docker   **Subject Code: 21CAH-743**

1) Task to be done: Pulling Docker image from DockerHub

2)Steps for experiment/practical:

Steps for BUSYBOX:

1. *Go to Docker hub and sign in.*
2. *Search for busybox and copy the command.*
3. *Open Powershell.*
4. *Type " **docker pull busybox**" to pull the image from Docker repository.*
5. *Run the "docker run busybox echo "Hii" command for displaying text with image.*
6. *To check if it is running, type "**docker ps**" to list active container.*

3) Output:

```
Windows PowerShell                                                          —

PS C:\Users\ACER> docker pull busybox
Using default tag: latest
error during connect: Post "http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.41/images/create?fromImage=busybox&tag=latest": EOFPS C:\Users\ACER
ll busybox
Using default tag: latest
latest: Pulling from library/busybox
50783e0dfb64: Pull complete
Digest: sha256:ef320ff10026a50cf5f0213d35537ce0041ac1d96e9b7800bafd8bc9eff6c693
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest
```
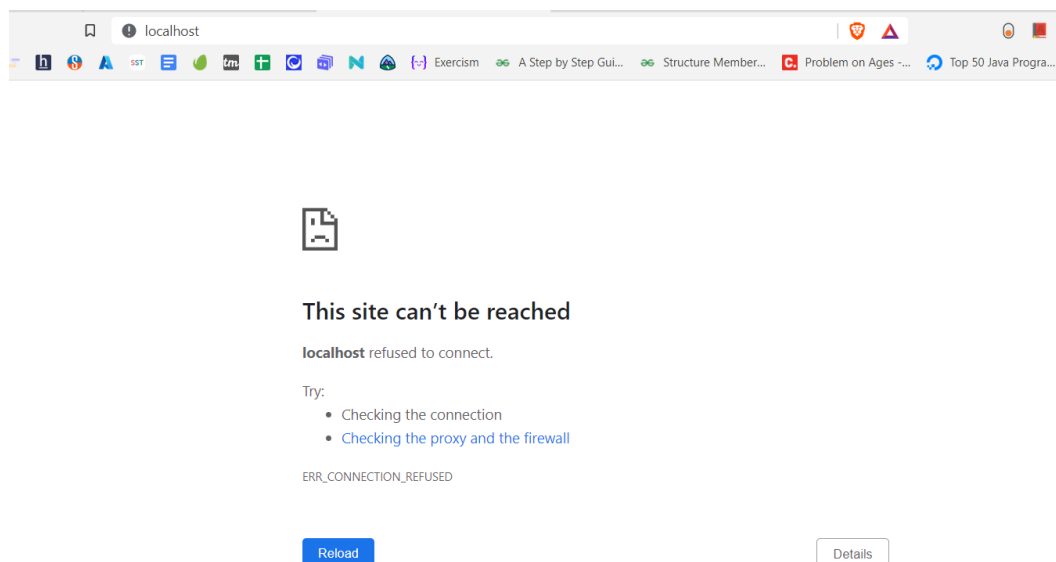
```
PS C:\Users\ACER> docker run -it busybox
/ # hii
sh: hii: not found
/ # exit
PS C:\Users\ACER> docker ps
CONTAINER ID   IMAGE      COMMAND    CREATED     STATUS     PORTS       NAMES
PS C:\Users\ACER> docker images
REPOSITORY     TAG        IMAGE ID       CREATED        SIZE
ubuntu         latest     df5de72bdb3b   2 weeks ago    77.8MB
busybox        latest     7a80323521cc   3 weeks ago    1.24MB
hello-world    latest     feb5d9fea6a5   11 months ago  13.3kB
PS C:\Users\ACER>
```

Steps for httpd:

1. Go to Docker hub and sign in.
2. Search for httpd and copy the command.
3. Type localhost on browser and look for output.
4. Then open Powershell.
5. Type " **docker pull httpd**" to pull the image from Docker repository.
6. Type run the **"docker run -d -p 80:80 httpd"** to run image in the container.
7. To check if it is running, type **"docker ps -a"** to list active container.
8. To check if httpd service is running copy the IP Address.

4) Output:

Before pulling httpd image:

localhost

This site can't be reached

localhost refused to connect.

Try:
- Checking the connection
- Checking the proxy and the firewall

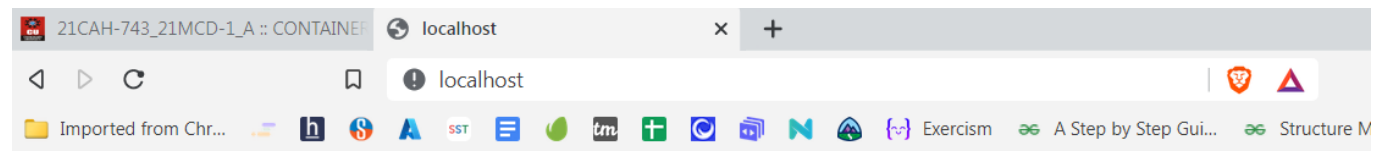ERR_CONNECTION_REFUSED

Reload   Details

```
PS C:\Users\ACER> docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
1efc276f4ff9: Already exists
aed046121ed8: Already exists
4340e7be3d7f: Already exists
80e368ef21fc: Already exists
80cb79a80bbe: Already exists
Digest: sha256:343452ec820a5d59eb3ab9aaa6201d193f91c3354f8c4f29705796d9353d4cc6
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
PS C:\Users\ACER> docker run -d -p 80:80 httpd
e1494048de0e1f7f337c53023df5bb840ad2134f8eea6190407a5308fea01e03
PS C:\Users\ACER> docker ps -a
CONTAINER ID   IMAGE         COMMAND               CREATED           STATUS                    PORTS                  NAMES
e1494048de0e   httpd         "httpd-foreground"    About a minute ago Up 49 seconds            0.0.0.0:80->80/tcp     quirky_chatterjee
0e1c3dcd32e0   busybox       "sh"                  15 minutes ago    Exited (127) 14 minutes ago                     practical_zhukovsky
5faaa50bb9a6   busybox       "echo 'hello my name…" 15 minutes ago   Exited (0) 15 minutes ago                       heuristic_davinci
3af5308d594d   ubuntu        "bash"                26 hours ago      Exited (0) 25 hours ago                         wonderful_bell
d45ac70600c2   hello-world   "/hello"              26 hours ago      Exited (0) 26 hours ago                         naughty_volhard
da20005191a6   c2d6090a5834  "/usr/sbin/run.sh"    5 days ago        Exited (0) 5 days ago                           interesting_banach
268ea1ad8575   httpd         "httpd-foreground"    5 days ago        Exited (255) 3 days ago   0.0.0.0:80->80/tcp     strange_mirzakhani
ef89ef1f2a2f   hello-world   "/hello"              5 days ago        Exited (0) 5 days ago                           sharp_haibt
6161534d132e   hello-world   "/hello"              5 days ago        Exited (0) 5 days ago                           optimistic_meninsky
PS C:\Users\ACER>
```

After pulling httpd image:

It works!

5) Learning outcomes (What I have learnt):

1. Learned about pulling images from Docker Hub.

2. Learned about running containers.

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance (Pre Lab Quiz)		5
2.	Worksheet		10
3.	Post Lab Quiz		5