

## Here is DOCKER Hands on Lab 04.

1. Pull the Busy-box image to your local system, tag it, and push it to the Docker Hub repository "yourname\_cloudethix\_busybox."

**SOLUTION:-**


```
root@DESKTOP-VIDGD8F:DOCKER# docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
a307d6ecc620: Pull complete
Digest: sha256:ba76950ac9eaa407512c9d859cea48114eeff8a6f12ebaa5d32ce79d4a017dd8
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest
```

```
root@DESKTOP-VIDGD8F:DOCKER# docker image ls
```


REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
my_image	latest	be64c264bd0a	6 days ago	584MB
my_image	version1	be64c264bd0a	6 days ago	584MB
sanu28221/docker_repo	version1	be64c264bd0a	6 days ago	584MB
busybox	latest	9211bbaa0dbd	4 weeks ago	4.26MB
ubuntu	latest	174c8c134b2a	4 weeks ago	77.9MB
nginx	latest	d453dd892d93	2 months ago	187MB
httpd	latest	6fd77d7e5eb7	2 months ago	167MB


```
root@DESKTOP-VIDGD8F:DOCKER# docker image tag busybox:latest sanu28221/saniya_cloudethix_busybox:v1
root@DESKTOP-VIDGD8F:DOCKER# docker image push sanu28221/saniya_cloudethix_busybox:v1
The push refers to repository [docker.io/sanu28221/saniya_cloudethix_busybox]
82ae998286b2: Pushed
v1: digest: sha256:7de5fa822a9d1e507c36565ee0cf50c08faa64505461c844a3ce3944d23efa35 size: 527
root@DESKTOP-VIDGD8F:DOCKER# docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
my_image	latest	be64c264bd0a	6 days ago	584MB
my_image	version1	be64c264bd0a	6 days ago	584MB
sanu28221/docker_repo	version1	be64c264bd0a	6 days ago	584MB
busybox	latest	9211bbaa0dbd	4 weeks ago	4.26MB
sanu2822/saniya_cloudethix_busybox	v1	9211bbaa0dbd	4 weeks ago	4.26MB
sanu28221/saniya_cloudethix_busybox	v1	9211bbaa0dbd	4 weeks ago	4.26MB
ubuntu	latest	174c8c134b2a	4 weeks ago	77.9MB
nginx	latest	d453dd892d93	2 months ago	187MB
httpd	latest	6fd77d7e5eb7	2 months ago	167MB

 sanu28221 / saniya\_cloudethix\_busybox



**Description**

This repository does not have a description 

 Last pushed: 5 minutes ago

**Tags**

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
 v1		Image	---	7 minutes ago

[See all](#)

**2. In your project directory, create a Dockerfile (named Dockerfile) with the following content.**

**FROM nginx:latest**

**COPY custom-index.html /usr/share/nginx/html/index.html**

**Ensure you also have a file named custom-index.html in the same directory.**

**Build the Docker image using the Dockerfile you created and push it your repository.**

**Delete the local image.**

**Start a new container using the custom Nginx image that you just pushed.**

**Map port 8080 on your host to port 80 in the container. Check the container page in browser.**

SOLUTION:-

```
root@DESKTOP-VIDGD8F:DOCKER# vim Dockerfile
root@DESKTOP-VIDGD8F:DOCKER# cat Dockerfile
FROM nginx:latest
COPY custom-index.html /usr/share/nginx/html/index.html
root@DESKTOP-VIDGD8F:DOCKER# touch custom-index.html
```

```
root@DESKTOP-VIDGD8F:DOCKER# cat custom-index.html
WELCOME TO NGINX CONTAINER
root@DESKTOP-VIDGD8F:DOCKER#
```

```

root@DESKTOP-VIDGD8F:DOCKER# ll
total 106672
drwxrwxrwx 1 saniya saniya      512 Jan 16 16:23 .
drwxrwxrwx 1 saniya saniya      512 Jan  9 11:09 ..
drwxrwxrwx 1 saniya saniya      512 Jan 11 15:54 .git
-rwxrwxrwx 1 saniya saniya    220338 Jan 12 11:20 43db4682a57bbddf864719d9403919eb.jpg
-rwxrwxrwx 1 saniya saniya    806442 Jan  9 15:06 Docker_Assignment_no1.pdf
-rwxrwxrwx 1 saniya saniya    3256846 Jan 10 15:24 Docker_Assignment_no_2.pdf
-rwxrwxrwx 1 saniya saniya    11349 Jan 11 12:04 Docker_Assignment_no_3.docx
-rwxrwxrwx 1 saniya saniya    15891 Jan 11 15:49 Docker_Assignment_no_3.txt
-rwxrwxrwx 1 saniya saniya      74 Jan 16 16:22 Dockerfile
-rwxrwxrwx 1 saniya saniya      0 Jan 16 16:23 custom-index.html
-rwxrwxrwx 1 saniya saniya      36 Jan 12 12:27 'docker hub password .txt'
-rwxrwxrwx 1 saniya saniya 104193512 Nov 16 15:37 draw.io-22.1.2-windows-installer.jpg.exe
-rwxrwxrwx 1 saniya saniya      43 Jan 11 13:25 index.html
-rwxrwxrwx 1 saniya saniya    720689 Nov 30 19:08 saniya.jpg
root@DESKTOP-VIDGD8F:DOCKER#

```

```

root@DESKTOP-VIDGD8F:DOCKER# docker image build -t nginx:latest .
[+] Building 16.4s (8/8) FINISHED
=> [internal] load .dockerignore                                docker:default 0.0s
=> transferring context: 2B                                    0.0s
=> [internal] load build definition from Dockerfile            0.1s
=> transferring dockerfile: 111B                               0.0s
=> [internal] load metadata for docker.io/library/nginx:latest 3.6s
=> [auth] library/nginx:pull token for registry-1.docker.io    0.0s
=> [internal] load build context                              0.0s
=> transferring context: 36B                                    0.0s
=> [1/1] FROM docker.io/library/nginx:latest@sha256:4c8fd8a8b6341bfdeca5f18f7837462c80c9ff90527ee35ef185571e1c327beac 12.1s
=> resolve docker.io/library/nginx:latest@sha256:4c8fd8a8b6341bfdeca5f18f7837462c80c9ff90527ee35ef185571e1c327beac 0.1s
=> sha256:4c8fd8a8b6341bfdeca5f18f7837462c80c9ff90527ee35ef185571e1c327beac 7.59kB / 7.59kB 0.0s
=> sha256:8b7dd3dd1dc38cc1caba388bbf226cda8b8d2e7c4a103c11ca84cda2ed106a2c 41.37MB / 41.37MB 7.4s
=> sha256:38497dd96569b9139cd388fd07107df32ccdc1a49b2855366c9e968b2dec3e7dc 628B / 628B 0.3s
=> sha256:161ef4b16f7efb388a2a9625c82b59f69d54ac6959a8a155a143800439c593c 1.99kB / 1.99kB 0.0s
=> sha256:a878071d8b6a8a090971168d27028f6a8a7c8166221a97d380408c8eac3be8 7.62kB / 7.62kB 0.0s
=> sha256:2f40b7a889fa805d07c931d3cfad2a1c83a287de72ab9d8b97712425f4612c1 29.13MB / 29.13MB 4.0s
=> sha256:3d6d80cc66b308ef47ba88a8b9d133a890c2cc88a9f887f6f9a8b267933dc1 958B / 958B 0.0s
=> sha256:2da55521f76cee8b8b2e31457075cc589cc68373d79aeb217f12838818fc3da90 366B / 366B 1.0s
=> sha256:dc9c4f4b83408ef5988ec394cc6b75080b3a817c7030268cb995962be5312f10 1.21kB / 1.21kB 1.0s
=> sha256:8856d2bcf3b682573ee5b8c176c1289df285d5be0df98ec6ae88bf7021179b70 1.48kB / 1.48kB 1.2s
=> extracting sha256:2f40b7a889fa805d07c931d3cfad2a1c83a287de72ab9d8b97712425f4612c1 1.9s
=> extracting sha256:8b7dd3dd1dc38cc1caba388bbf226cda8b8d2e7c4a103c11ca84cda2ed106a2c 3.2s
=> extracting sha256:38497dd96569b9139cd388fd07107df32ccdc1a49b2855366c9e968b2dec3e7dc 0.0s
=> extracting sha256:3d6d80cc66b308ef47ba88a8b9d133a890c2cc88a9f887f6f9a8b267933dc1 0.0s
=> extracting sha256:2da55521f76cee8b8b2e31457075cc589cc68373d79aeb217f12838818fc3da90 0.0s
=> extracting sha256:dc9c4f4b83408ef5988ec394cc6b75080b3a817c7030268cb995962be5312f10 0.0s
=> extracting sha256:8856d2bcf3b682573ee5b8c176c1289df285d5be0df98ec6ae88bf7021179b70 0.0s
=> [2/2] COPY custom-index.html /usr/share/nginx/html/index.html 0.1s
=> exporting to image 0.1s
=> exporting layers 0.1s
=> writing image sha256:7311f0430b8b21fed8185b93c1c0b57f90b41ab55b16a121891f1a60f7be9dff 0.0s
=> naming to docker.io/library/nginx:latest 0.0s

```

```

root@DESKTOP-VIDGD8F:DOCKER# docker image ls
REPOSITORY      TAG          IMAGE ID      CREATED      SIZE
nginx           latest      7311f0430b8b 6 seconds ago 187MB
busybox         latest      9211bbaa0dbd 4 weeks ago  4.26MB
ubuntu          latest      174c8c134b2a 5 weeks ago  77.9MB
httpd           latest      6fd77d7e5eb7 2 months ago 167MB
root@DESKTOP-VIDGD8F:DOCKER#

```

```

root@DESKTOP-VIDGD8F:DOCKER# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx          latest    7311f0430b8b   About a minute ago    187MB
busybox        latest    9211bbaa0dbd   4 weeks ago        4.26MB
ubuntu         latest    174c8c134b2a   5 weeks ago        77.9MB
httpd          latest    6fd77d7e5eb7   2 months ago        167MB
root@DESKTOP-VIDGD8F:DOCKER# docker image tag nginx:latest sanu28221/docker_repo:nginx_1
root@DESKTOP-VIDGD8F:DOCKER# docker image push sanu28221/docker_repo:nginx_1
The push refers to repository [docker.io/sanu28221/docker_repo]
671a73506a7b: Pushed
009507b85609: Mounted from library/nginx
fbcc9bc44d3e: Mounted from library/nginx
b4ad47845036: Mounted from library/nginx
eddc06e5ef9: Mounted from library/nginx
b61d4b2cd2da: Mounted from library/nginx
b6c2a8d6f0ac: Mounted from library/nginx
571ade696b26: Mounted from library/nginx
nginx_1: digest: sha256:45b552e3030aafd13dd5e972221d5c591bdca930d897b8dca40afc32620d0144 size: 1985
root@DESKTOP-VIDGD8F:DOCKER# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx          latest    7311f0430b8b   8 minutes ago    187MB
sanu28221/docker_repo  nginx_1    7311f0430b8b   8 minutes ago    187MB
busybox        latest    9211bbaa0dbd   4 weeks ago        4.26MB
ubuntu         latest    174c8c134b2a   5 weeks ago        77.9MB
httpd          latest    6fd77d7e5eb7   2 months ago        167MB
root@DESKTOP-VIDGD8F:DOCKER#

```

```

root@DESKTOP-VIDGD8F:DOCKER# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx          latest    7311f0430b8b   8 minutes ago    187MB
sanu28221/docker_repo  nginx_1    7311f0430b8b   8 minutes ago    187MB
busybox        latest    9211bbaa0dbd   4 weeks ago        4.26MB
ubuntu         latest    174c8c134b2a   5 weeks ago        77.9MB
httpd          latest    6fd77d7e5eb7   2 months ago        167MB
root@DESKTOP-VIDGD8F:DOCKER# docker image rm -f 7311f0430b8b
Untagged: nginx:latest
Untagged: sanu28221/docker_repo:nginx_1
Untagged: sanu28221/docker_repo@sha256:45b552e3030aafd13dd5e972221d5c591bdca930d897b8dca40afc32620d0144
Deleted: sha256:7311f0430b8b21fed8155b9361c0b57f95b41ab55b16a121891f1a64f7be9dfff

```

```

root@DESKTOP-VIDGD8F:DOCKER# docker container run -itd -p 8080:80 sanu28221/docker_repo:nginx_1
Unable to find image 'sanu28221/docker_repo:nginx_1' locally
nginx_1: Pulling from sanu28221/docker_repo
2f44b7a888fa: Already exists
8b7dd3ed1dc3: Already exists
35497dd96569: Already exists
36664b6ce66b: Already exists
2d455521f76c: Already exists
dc9c4fdb83d6: Already exists
8056d2bcf3b6: Already exists
ab32e0dc5621: Already exists
Digest: sha256:45b552e3030aafd13dd5e972221d5c591bdca930d897b8dca40afc32620d0144
Status: Downloaded newer image for sanu28221/docker_repo:nginx_1
8c7115d156ec9fd5c8b86d41e0ba066fc9bd32a3891bf557f8620ecb9799561d

```

```

root@DESKTOP-VIDGD8F:DOCKER# curl http://172.17.0.4
WELCOME TO NGINX CONTAINER
root@DESKTOP-VIDGD8F:DOCKER#

```