

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

```
root@Nilam:~# 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@Nilam:~# docker images
REPOSITORY      TAG        IMAGE ID      CREATED        SIZE
nil_image       latest     53674603dd32  23 hours 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@Nilam:~#
```

```
root@Nilam:~# docker image tag busybox nilamball169/nilam_cloudethix_busybox
root@Nilam:~#
root@Nilam:~# docker images
REPOSITORY      TAG        IMAGE ID      CREATED        SIZE
nil_image       latest     53674603dd32  23 hours ago  584MB
busybox         latest     9211bbaa0dbd  4 weeks ago   4.26MB
nilamball169/nilam_cloudethix_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@Nilam:~#
```

```
root@Nilam:~# docker login
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
root@Nilam:~#
```

```
root@Nilam:~#
root@Nilam:~# docker push nilamball169/nilam_cloudethix_busybox
Using default tag: latest
The push refers to repository [docker.io/nilamball169/nilam_cloudethix_busybox]
82ae998286b2: Mounted from library/busybox
latest: digest: sha256:7de5fa822a9d1e507c36565ee0cf50c08faa64505461c844a3ce3944d23efa35 size: 527
root@Nilam:~#
```

The screenshot shows the Docker Hub interface for the repository `nilamball169 / nilam_cloudethix_busybox`. The page includes a navigation bar with 'Explore', 'Repositories', and 'Organizations' tabs. Below the navigation bar, there's a section for 'General' with tabs for 'Tags', 'Builds', 'Collaborators', 'Webhooks', and 'Settings'. A message prompts the user to 'Add a short description for this repository'. The repository name is displayed as `nilamball169 / nilam_cloudethix_busybox`. A 'Description' section states 'This repository does not have a description'. A 'Last pushed' timestamp shows 'less than a minute ago'. On the right, a 'Docker commands' section provides the command `docker push nilamball169/nilam_cloudethix_busybox: tagname` and a 'Public View' button.

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.

```
root@Nilam:~# cat Dockerfile
FROM httpd:latest
COPY ./index.html /usr/local/apache2/htdocs/
root@Nilam:~#
```

```
root@Nilam:~# vim custom-index.html
root@Nilam:~#
root@Nilam:~# cat custom-index.html
hello cloudeithx
```

```

root@nilam:~# docker image build -t nginx .
[+] Building 35.3s (8/8) FINISHED
# [internal] load .dockerignore
# transferring context: 2B
# [internal] load build definition from Dockerfile
# transferring dockerfile: 1.11kB
# [internal] load metadata for docker.io/library/nginx:latest
# auth library/nginx pull token for registry-1.docker.io
# [internal] load build context
# transferring context: 57B
# [1/2] FROM docker.io/library/nginx:latest#sha256:4c8fd4a8b63d1d4deca5f18f7837462c86cf98527ee35ef185571e1c377beac
# resolve docker.io/library/nginx:latest#sha256:4c8fd4a8b63d1d4deca5f18f7837462c86cf98527ee35ef185571e1c377beac
# sha256:35d970096568b9339cd388d0710af372cdc14490c205536bcc09680cde6a7dc 628B / 628B
# sha256:161ef0717ef7ff35ba23625cb2b59f60d54ccc6059a8a153a103800a30c593c 1.99kB / 1.99kB
# sha256:24a07f16bdaa0a490897168027028f64e4ee7ce8166221a97d3008c8ac2be8 7.02kB / 7.02kB
# sha256:24a07f16bdaa0a490897168027028f64e4ee7ce8166221a97d3008c8ac2be8 29.13kB / 29.13kB
# sha256:30b703ed1dc38c1caba380bbf722ccda5bd2e7c4e1b3c11ca64cad2e186a2c 41.37kB / 41.37kB
# sha256:4c8fd4a8b63d1d4deca5f18f7837462c86cf98527ee35ef185571e1c377beac 7.59kB / 7.59kB
# sha256:366d40cc6c66304e47ba88b960133a885c2cc08a9f8887d094a2679334c1 955B / 955B
# sha256:20f55521f76ce880a2e21457075cc500c8037378ac217f12838018fc34da90 366B / 366B
# sha256:dc9c4f0d3069ef5966ec344c6b75688b3a17c743426cc6995962be531214f 1.21kB / 1.21kB
# sha256:0836d2bc3fb682573ee506c176c1299df285d5ee0df95ecc6a08b77021179674 1.00kB / 1.00kB
# extracting sha256:1f4047a088fa085d07c81d3dcfad2a1c39442079ef2a8d0b97713425f4f12c1
# extracting sha256:30b703ed1dc38c1caba380bbf722ccda5bd2e7c4e1b3c11ca64cad2e186a2c 1.0kB
# extracting sha256:15d970096568b9339cd388d0710af372cdc14490c205536bcc09680cde6a7dc 1.8kB
# extracting sha256:366d40cc6c66304e47ba88b960133a885c2cc08a9f8887d094a2679334c1 0.0kB
# extracting sha256:20f55521f76ce880a2e21457075cc500c8037378ac217f12838018fc34da90 0.0kB
# extracting sha256:dc9c4f0d3069ef5966ec344c6b75688b3a17c743426cc6995962be531214f 0.0kB
# extracting sha256:0836d2bc3fb682573ee506c176c1299df285d5ee0df95ecc6a08b77021179674 0.0kB

```

```
root@Nilam:project# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	25e09c29b07b	26 seconds ago	187MB
nilamballal169/nginx	latest	cc3744d016fa	21 minutes ago	167MB
nil_image	latest	53674603dd32	23 hours ago	584MB
busybox	latest	9211bbaa0dbd	4 weeks ago	4.26MB
nilamballal169/nilam_cloudethix_busybox	latest	9211bbaa0dbd	4 weeks ago	4.26MB
ubuntu	latest	174c8c134b2a	4 weeks ago	77.9MB
nginx	<none>	d453dd892d93	2 months ago	187MB
httpd	latest	6fd77d7e5eb7	2 months ago	167MB

```

root@Nilam:project# docker image tag nginx nilamballal169/nginx
root@Nilam:project#
root@Nilam:project# docker images

```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	25e09c29b07b	3 minutes ago	187MB
nilamballal169/nginx	latest	25e09c29b07b	3 minutes ago	187MB
nil_image	latest	53674603dd32	24 hours ago	584MB
busybox	latest	9211bbaa0dbd	4 weeks ago	4.26MB
nilamballal169/nilam_cloudethix_busybox	latest	9211bbaa0dbd	4 weeks ago	4.26MB
ubuntu	latest	174c8c134b2a	4 weeks ago	77.9MB
nginx	<none>	d453dd892d93	2 months ago	187MB
httpd	latest	6fd77d7e5eb7	2 months ago	167MB

```

root@Nilam:project# docker container run -itd --name nilam-nginx -p 8080:80 nilamballal169/nginx
da699ef8de0d83cba4e06c29a6afc6f8d1548ff3577cb60de4fb5c1458351631
root@Nilam:project# docker container ls

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
da699ef8de0d	nilamballal169/nginx	"/docker-entrypoint..."	15 seconds ago	Up 14 seconds	0.0.0.0:8080->80/tcp, :::8080->80/tcp
069d792f78f6	d453dd892d93	"/docker-entrypoint..."	4 hours ago	Up 4 hours	80/tcp
1b5835354961	httpd	"sleep 10"	28 hours ago	Up 5 seconds	80/tcp

my_cloud_httpd_container_04

```

root@Nilam:project# curl localhost:8080
hello nilam

```

```

root@Nilam:project# hostname -I
172.28.31.239 172.17.0.1
root@Nilam:project#

```

← → ↺ ⚠ Not secure 172.28.31.239:8080

hello nilam