

1. Docker install on wsl.

```
root@vishalpc:~# exit
exit
root@vishalpc:/home/vishal# exit
exit
vishal@vishalpc:~$ su -
Password:
root@vishalpc:~# docker --version
Docker version 28.5.2, build ecc6942
root@vishalpc:~# mkdir Docker_tasks
```

19. Run four HTTPD Docker containers with distinct, meaningful names, and apply restart policies (NO, On-Failure, Always, and Unless-Stopped) to each of the four containers, respectively. Demonstrate that the restart policies function as expected.

### Container1 with restart\_no policy

```
root@vishalpc:~/Docker_tasks# docker run -d --name web01_no -p 8080:80 --restart no httpd
Unable to find image 'httpd:latest' locally
latest: Pulling from library/httpd
d7ecded7702a: Already exists
fab98c44430d: Pull complete
4f4fb700ef54: Pull complete
13c22d886563: Pull complete
4870f70a8556: Pull complete
233dec01418c: Pull complete
Digest: sha256:ecfd5ca1bfe1fc5e44a5836c5188bde7f397b50c7a5bb603a017543e29948a01
Status: Downloaded newer image for httpd:latest
1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd
root@vishalpc:~/Docker_tasks# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
1a3f0ba24450   httpd         "httpd-foreground"      10 seconds ago Up 9 seconds  0.0.0.0:8080->80/tcp, [::]:8080->80/tcp  web01_no
root@vishalpc:~/Docker_tasks# docker inspect web01_no
[
  {
    "Id": "1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd",
    "Created": "2025-11-06T05:12:28.993742014Z",
    "Path": "httpd-foreground",
    "Args": [],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 10888,
      "ExitCode": 0,
      "Error": ""
    }
  }
]
```

### Container1 with restart onfailure policy

```
    "Config": {}
  },
  "NetworkMode": "bridge",
  "PortBindings": {
    "80/tcp": [
      {
        "HostIp": "",
        "HostPort": "8081"
      }
    ]
  },
  "RestartPolicy": {
    "Name": "on-failure",
    "MaximumRetryCount": 0
  },
  "AutoRemove": false,
  "VolumeDriver": "",
  "VolumesFrom": null,
  "ConsoleSize": [
    41,
    156
  ]
}
```

```

root@vishalpc:~/Docker_tasks#
root@vishalpc:~/Docker_tasks#
root@vishalpc:~/Docker_tasks#
root@vishalpc:~/Docker_tasks# docker run -d --name appserver_onfailure -p 8081:80 --restart on-failure httpd
f40f37fdae7904686d1391f64e4a90d6c761337fe16137893e86d455728faef8
root@vishalpc:~/Docker_tasks# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
f40f37fdae79   httpd     "httpd-foreground"      5 seconds ago Up 4 seconds  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  appserver_onfailure
1a3f0ba24450   httpd     "httpd-foreground"      4 minutes ago Up 4 minutes  0.0.0.0:8080->80/tcp, [::]:8080->80/tcp  web01_no
root@vishalpc:~/Docker_tasks# docker inspect appserver_onfailure
[
  {
    "Id": "f40f37fdae7904686d1391f64e4a90d6c761337fe16137893e86d455728faef8",
    "Created": "2025-11-06T05:16:49.760682656Z",
    "Path": "httpd-foreground",
    "Args": [],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 11223
    }
  }
]

```

```

root@vishalpc:~/Docker_tasks# docker run -d --name db_always -p 8083:80 --restart always httpd
920b3bca6ed7e0d4908b8cdedd97092aec923c93dc9a75f4896193502bd860f5
root@vishalpc:~/Docker_tasks# docker run -d --name local_unless-stopped -p 8084:80 --restart unless-stopped httpd
a3919ab44ddeda9629014cef3b42ab9d7a865703216cc6a7b3f8e477b7dbec193
root@vishalpc:~/Docker_tasks# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
a3919ab44dde   httpd     "httpd-foreground"      6 seconds ago Up 5 seconds  0.0.0.0:8084->80/tcp, [::]:8084->80/tcp  local_unless-stopped
920b3bca6ed7   httpd     "httpd-foreground"      50 seconds ago Up 50 seconds  0.0.0.0:8083->80/tcp, [::]:8083->80/tcp  db_always
f40f37fdae79   httpd     "httpd-foreground"      9 minutes ago Up 9 minutes  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  appserver_onfailure
1a3f0ba24450   httpd     "httpd-foreground"      13 minutes ago Up 13 minutes  0.0.0.0:8080->80/tcp, [::]:8080->80/tcp  web01_no
root@vishalpc:~/Docker_tasks#
root@vishalpc:~/Docker_tasks#
root@vishalpc:~/Docker_tasks#

```

20. Change the restart policy of a above running container from the default to a custom policy using the docker update command. e.g. docker update --help

```

root@vishalpc:~/Docker_tasks# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
a3919ab44dde   httpd     "httpd-foreground"      8 minutes ago Up 8 minutes  0.0.0.0:8084->80/tcp, [::]:8084->80/tcp  local_unless-stopped
920b3bca6ed7   httpd     "httpd-foreground"      8 minutes ago Up 8 minutes  0.0.0.0:8083->80/tcp, [::]:8083->80/tcp  db_always
f40f37fdae79   httpd     "httpd-foreground"      17 minutes ago Up 17 minutes  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  appserver_onfailure
1a3f0ba24450   httpd     "httpd-foreground"      21 minutes ago Up 21 minutes  0.0.0.0:8080->80/tcp, [::]:8080->80/tcp  web01_no
root@vishalpc:~/Docker_tasks# docker update --restart=always web01_no
web01_no
root@vishalpc:~/Docker_tasks# docker inspect web01_no
[
  {
    "Id": "1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd",
    "Created": "2025-11-06T05:12:28.993742014Z",
    "Path": "httpd-foreground",
    "Args": [],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 10888,
      "ExitCode": 0,
      "Error": "",
      "StartedAt": "2025-11-06T05:12:29.289909647Z",
      "FinishedAt": "0001-01-01T00:00:00Z"
    },
    "Image": "sha256:6a4fe18d08d26a61b32d6aa5d17b2417c4f4de63e8460abf4cd824b911b9de88",
    "ResolvConfPath": "/var/lib/docker/containers/1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd/resolv.conf",
    "HostnamePath": "/var/lib/docker/containers/1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd/hostname",
    "HostsPath": "/var/lib/docker/containers/1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd/hosts",
    "LogPath": "/var/lib/docker/containers/1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd/1a3f0ba24450afdbc12eb6aa2b571823bf815b1fe91a3f2b0b26bec9022a5acd-json.log",
    "Name": "/web01_no",
    "RestartCount": 0,
    "Driver": "overlay2",
    "Platform": "linux",
    "MountLabel": ""
  }
]

```

```

    "ExecID": null,
    "HostConfig": {
      "Binds": null,
      "ContainerIDFile": "",
      "LogConfig": {
        "Type": "json-file",
        "Config": {}
      },
      "NetworkMode": "bridge",
      "PortBindings": {
        "80/tcp": [
          {
            "HostIp": "",
            "HostPort": "8080"
          }
        ]
      },
      "RestartPolicy": {
        "Name": "always",
        "MaximumRetryCount": 0
      },
      "AutoRemove": false,
      "VolumeDriver": "",
      "VolumesFrom": null,
      "ConsoleSize": [
        41,
        156
      ],
      "CapAdd": null,
      "CapDrop": null,
      "CgroupnsMode": "private",
      "Dns": [],
      "DnsOptions": [],
      "DnsSearch": [],
      "ExtraHosts": null,
      "GroupAdd": null,
      "IpcMode": "private",
      "Cgroup": "",
      "Links": null,

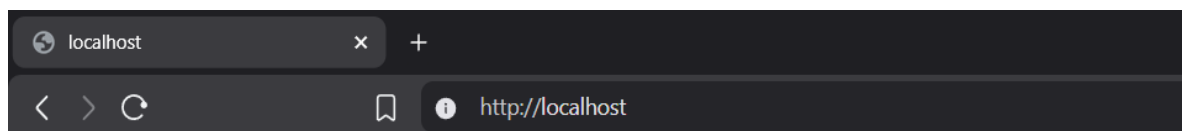
```

**21.** Launch an NGINX container with a meaningful name and expose it on the host's port 80. Create an "index.html" file containing the text "Hello there, Let's be the Team CloudEthiX," and copy the file to the container's "/usr/share/nginx/html/" location. Access the container in a browser to verify that the webpage displays correctly.

```

webserver
root@vishalpc:~/Docker_tasks# docker container run -dit --name webserver -p 80:80 nginx
332a8c5dbfc9b84ae1eaf3a779654256d153c3acd0f1ec6b61d6e2d08d4ac55b
root@vishalpc:~/Docker_tasks# docker exec -it webserver /bin/bash
root@332a8c5dbfc9:/# echo "Hello there, Let's be the Team CloudEthiX" > index.html
root@332a8c5dbfc9:/# mv index.html /usr/share/nginx/html/
root@332a8c5dbfc9:/# cd /usr/share/nginx/html/
root@332a8c5dbfc9:/usr/share/nginx/html# ls
50x.html  index.html
root@332a8c5dbfc9:/usr/share/nginx/html#
root@332a8c5dbfc9:/usr/share/nginx/html#
root@332a8c5dbfc9:/usr/share/nginx/html#
root@332a8c5dbfc9:/usr/share/nginx/html#

```



Hello there, Let's be the Team CloudEthiX

## 22. Run a docker container with CPU and Memory limit.

docker container run --help

```
root@vishalpc:~/Docker_tasks# docker run -d -m 512m --memory-reservation=256m --cpus=2 --name newaap nginx
31357881496ee997dd111ef9bfb0a64ad804061341b37562027621242bc0dc19
root@vishalpc:~/Docker_tasks# docker inspect memcont1 | grep -i memory
    "Memory": 536870912,
    "MemoryReservation": 268435456,
    "MemorySwap": 1073741824,
    "MemorySwappiness": null,
root@vishalpc:~/Docker_tasks# docker inspect memcont1 | grep -i cpu
    "CpuShares": 0,
    "NanoCpus": 0,
    "CpuPeriod": 0,
    "CpuQuota": 0,
    "CpuRealtimePeriod": 0,
    "CpuRealtimeRuntime": 0,
    "CpusetCpus": "",
    "CpusetMems": "",
    "CpuCount": 0,
    "CpuPercent": 0,
```

## 23. Update CUP and Memory of docker container using docker update.

ref links :-

```
    "CpuCount": 0,
    "CpuPercent": 0,
root@vishalpc:~/Docker_tasks# docker update -m 1024m --cpus=1 newaap
newaap
root@vishalpc:~/Docker_tasks# docker inspect newaap | grep -i cpu
    "CpuShares": 0,
    "NanoCpus": 1000000000,
    "CpuPeriod": 0,
    "CpuQuota": 0,
    "CpuRealtimePeriod": 0,
    "CpuRealtimeRuntime": 0,
    "CpusetCpus": "",
    "CpusetMems": "",
    "CpuCount": 0,
    "CpuPercent": 0,
root@vishalpc:~/Docker_tasks# docker inspect newaap | grep -i memory
    "Memory": 1073741824,
    "MemoryReservation": 268435456,
    "MemorySwap": 1073741824,
    "MemorySwappiness": null,
root@vishalpc:~/Docker_tasks# |
```

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

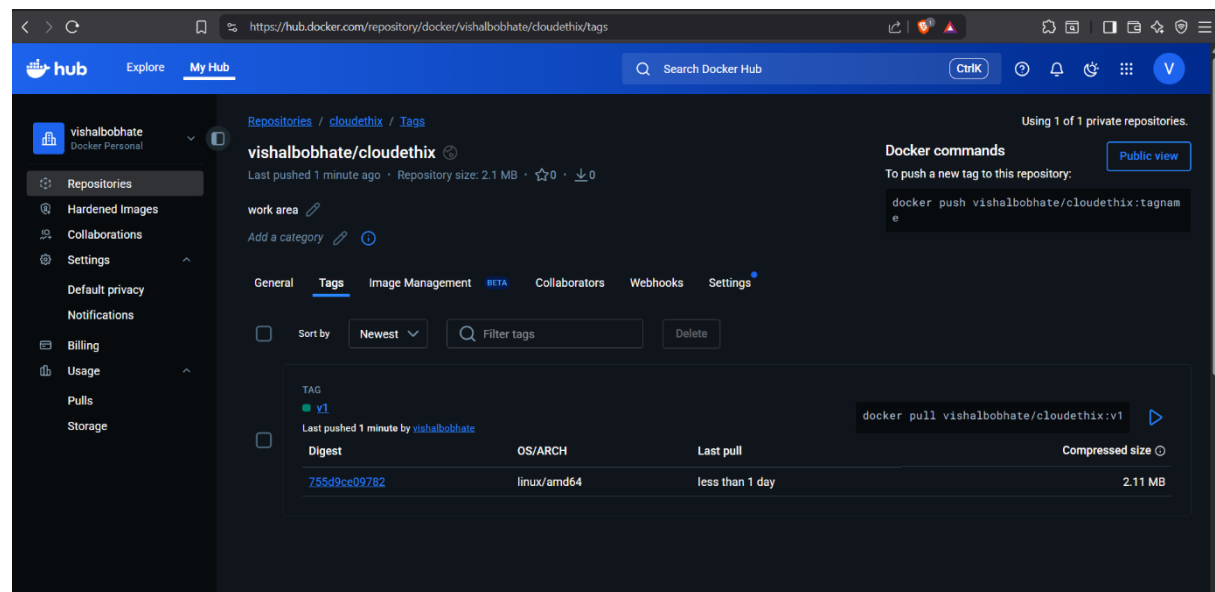
```
root@vishalpc:~/Docker_tasks# docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
e59838ecfec5: Pull complete
Digest: sha256:e3652a00a2fabd16ce889f0aa32c38eec347b997e73bd09e69c962ec7f8732ee
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest
root@vishalpc:~/Docker_tasks# docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
httpd         latest    6a4fe18d08d2   2 days ago     117MB
nginx         latest    d261fd19cb63   2 days ago     152MB
busybox       latest    08ef35a1c3f0   13 months ago  4.43MB
root@vishalpc:~/Docker_tasks# docker tag busybox:latest vishalbobhate/cloudethix:v1
root@vishalpc:~/Docker_tasks# docker login -u vishalbobhate

Info → A Personal Access Token (PAT) can be used instead.
To create a PAT, visit https://app.docker.com/settings

Password:

WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
root@vishalpc:~/Docker_tasks# docker push vishalbobhate/cloudethix:v1
The push refers to repository [docker.io/vishalbobhate/cloudethix]
e14542cc0629: Mounted from library/busybox
v1: digest: sha256:755d9ce09782b2f60fd3321878e611f871817aa8a726e8c605f2f67ae6ffa9e2 size: 527
root@vishalpc:~/Docker_tasks#
```



**25.** 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@vishalpc:~/Docker_tasks# docker run -d --name web_custom_nginx vishalbobhate/cloudethix:latest
Unable to find image 'vishalbobhate/cloudethix:latest' locally
latest: Pulling from vishalbobhate/cloudethix
d7ecded7702a: Already exists
266626526d42: Already exists
320b0949be89: Already exists
d921c57c6a81: Already exists
9def903993e4: Already exists
52bc359bcbd7: Already exists
e2f8e296d9df: Already exists
c9e2adf41f1f: Already exists
Digest: sha256:7ba86a332bd8c8b06d4856cedaa225d293b6ed77c7a286587e6a2518284b35aa
Status: Downloaded newer image for vishalbobhate/cloudethix:latest
95ab2d57654f759dbf54c928d269bb62f760b712c2bf1066df124d94c32a03bc
root@vishalpc:~/Docker_tasks# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
95ab2d57654f	vishalbobhate/cloudethix:latest	"/docker-entrypoint..."	22 seconds ago	Up 20 seconds	80/tcp	web_custom_nginx



**26.** Push the Redis images tagged as version 1 and 3 to your Docker Hub repository, named "yourname\_cloudethix\_redis."

```
root@vishalpc:~/Docker_tasks# docker run -d --name web_custom_nginx vishalbobhate/cloudethix:latest
Unable to find image 'vishalbobhate/cloudethix:latest' locally
latest: Pulling from vishalbobhate/cloudethix
d7ecded7702a: Already exists
266626526d42: Already exists
320b0949be89: Already exists
d921c57c6a81: Already exists
9def903993e4: Already exists
52bc359bcbd7: Already exists
e2f8e296d9df: Already exists
c9e2adf41f1f: Already exists
Digest: sha256:7ba86a332bd8c8b06d4856cedaa225d293b6ed77c7a286587e6a2518284b35aa
Status: Downloaded newer image for vishalbobhate/cloudethix:latest
95ab2d57654f759dbf54c928d269bb62f760b712c2bf1066df124d94c32a03bc
root@vishalpc:~/Docker_tasks# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
95ab2d57654f	vishalbobhate/cloudethix:latest	"/docker-entrypoint..."	22 seconds ago	Up 20 seconds	80/tcp	web_custom_nginx

```

root@vishalpc:~/Docker_tasks#
root@vishalpc:~/Docker_tasks# docker pull redis
Using default tag: latest
latest: Pulling from library/redis
1adabd6b0d6b: Pull complete
22506777a096: Pull complete
5dec27664782: Pull complete
2e60b18d70d8: Pull complete
729797e636a7: Pull complete
4f4fb700ef54: Pull complete
6c981fc7c621: Pull complete
Digest: sha256:5c7c0445ed86918cb9efb96d95a6bfc03ed2059fe2c5f02b4d74f477ffe47915
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest
root@vishalpc:~/Docker_tasks# docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
vishalbobhate/cloudethix   latest      2b7f61ec9a0d  21 minutes ago  152MB
httpd                  latest      6a4fe18d08d2  2 days ago    117MB
nginx                  latest      d261fd19cb63  2 days ago    152MB
redis                  latest      017b1c12abf9  2 days ago    137MB
busybox                latest      08ef35a1c3f0  13 months ago  4.43MB
vishalbobhate/cloudethix   v1          08ef35a1c3f0  13 months ago  4.43MB
root@vishalpc:~/Docker_tasks# docker push vishalbobhate/vishal_cloudethix_redis:version1
The push refers to repository [docker.io/vishalbobhate/vishal_cloudethix_redis]
An image does not exist locally with the tag: vishalbobhate/vishal_cloudethix_redis
root@vishalpc:~/Docker_tasks# docker redis:latest vishalbobhate/vishal_cloudethix_redis:version1

```

```

root@vishalpc:~/Docker_tasks# docker run -d --name web_custom_nginx vishalbobhate/cloudethix:latest
Unable to find image 'vishalbobhate/cloudethix:latest' locally
latest: Pulling from vishalbobhate/cloudethix
d7ecded7702a: Already exists
266626526d42: Already exists
320b0949be89: Already exists
d921c57c6a81: Already exists
9def903993e4: Already exists
52bc359bcb7: Already exists
e2f8e296d9df: Already exists
c9e2adf41f1f: Already exists
Digest: sha256:7ba86a332bd8c8b06d4856cedaa225d293b6ed77c7a286587e6a2518284b35aa
Status: Downloaded newer image for vishalbobhate/cloudethix:latest
95ab2d57654f759dbf54c928d269bb62f760b712c2bf1066df124d94c32a03bc
root@vishalpc:~/Docker_tasks# docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
95ab2d57654f   vishalbobhate/cloudethix:latest     "/docker-entrypoint..."  22 seconds ago Up 20 seconds 80/tcp       web_custom_nginx

```

27. Create a remote Git repository and add the Dockerfile and index.html files. Clone the repository locally and create a release branch. Build the Docker image from the release branch with a meaningful tag, then run a container from the image and expose it on host port 8383. Check the webpage in a browser, and upon success, push the image to your Docker Hub repository named "yourname\_cloudethix\_nginx." Finally, push the release branch to the remote Git repository and merge it by creating a pull request.

```

root@vishalpc: ~/Docker_task  x  root@vishalpc: ~  x  +  v
Cloning into 'cloudethix_docker'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (6/6), done.
root@vishalpc:~/Docker_tasks/task27# ls
cloudethix_docker
root@vishalpc:~/Docker_tasks/task27# cd cloudethix_docker/
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# ls
Dockerfile  index.html
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# cd -
root@vishalpc:~# cd -
~/Docker_tasks/task27/cloudethix_docker
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# cd ..
root@vishalpc:~/Docker_tasks/task27# git init
hint: Using 'master' as the name for the initial branch. This default
hint: is subject to change. To configure the initial branch name
hint: of your new repositories, which will suppress this warning,
hint: use:
hint:   git config --global init.defaultBranch <name>
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this
hint: command:
hint:   git branch -m <name>

```

```

/root/Docker_tasks/task27/cloudethix_docker
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# cd ..
root@vishalpc:~/Docker_tasks/task27# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /root/Docker_tasks/task27/.git/
root@vishalpc:~/Docker_tasks/task27# git add

```

```

root@vishalpc:~/Docker_tasks/task27# git branch release
root@vishalpc:~/Docker_tasks/task27# git branch
* master
  release
root@vishalpc:~/Docker_tasks/task27# git checkout release
Switched to branch 'release'
root@vishalpc:~/Docker_tasks/task27# ls
cloudethix_docker
root@vishalpc:~/Docker_tasks/task27# cd cloudethix_docker/
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# ls
Dockerfile index.html
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# docker build -t mydocker_img
=> naming to docker.io/library/mydocker_img
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# docker image ls
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
mydocker_img        latest       b5768552ea59     12 seconds ago  152MB
vishalbobbate/cloudethix  latest       2b7f61ec9a0d     2 hours ago    152MB
httpd               latest       6a4fe18d08d2     2 days ago     117MB
nginx               latest       d261fd19cb63     2 days ago     152MB
redis               latest       017b1c12abf9     2 days ago     137MB
vishalbobbate/vishal_cloudethix_redis  version1    017b1c12abf9     2 days ago     137MB
vishalbobbate/vishal_cloudethix_redis  version3    017b1c12abf9     2 days ago     137MB
busybox             latest       08ef35a1c3f0     13 months ago  4.43MB
vishalbobbate/cloudethix  v1          08ef35a1c3f0     13 months ago  4.43MB
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# docker tag mydocker_img:latest vishalbobbate/cloudethix:v4
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# docker push vishalbobbate/cloudethix:v4
The push refers to repository [docker.io/vishalbobbate/cloudethix]
dc24ed7e0824: Pushed
d7217c60dca4: Layer already exists
d81df94f8d07: Layer already exists
99cd1b1b6a43: Layer already exists
2ced4cd78a7b: Layer already exists
8feb164cd673: Layer already exists
6e19587ac541: Layer already exists
36d06fe0cbc6: Layer already exists
v4: digest: sha256:d7c76c2e86fbc700c34c98e0e30a1f5c2cda4cbcaf1b59c53cf98a47c3c38c53 size: 1985
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# git push origin
Username for 'https://github.com': bobhatevishal
Password for 'https://bobhatevishal@github.com':
Everything up-to-date
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# git checkout master
error: pathspec 'master' did not match any file(s) known to git
root@vishalpc:~/Docker_tasks/task27/cloudethix_docker# git branch
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
Writing objects: 100% (2/2), 206 bytes | 206.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'release' on GitHub by visiting:
remote:   https://github.com/bobhatevishal/cloudethix_docker/pull/new/release
remote:
To https://github.com/bobhatevishal/cloudethix_docker.git
 * [new branch]   release -> release
branch 'release' set up to track 'origin/release'.
root@vishalpc:~/Docker_tasks/task27# docker run -d --name webserver_27 -p 83:83 mydocker_img:latest
30ef20a2704d90e95d8e3260b24fd7b525d4c76cde18d37f6ccce9eda05e1a87
root@vishalpc:~/Docker_tasks/task27# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS          NAMES
30ef20a2704d   mydocker_img:latest   "/docker-entrypoint..." 44 seconds ago   Up 43 seconds   80/tcp, 0.0.0.0:83->83/tcp, [::]:83->83/tcp   webserver_27
f66e5720e3f2   vishalbobbate/cloudethix:latest   "/docker-entrypoint..." 2 hours ago      Up 2 hours      0.0.0.0:80->80/tcp, [::]:80->80/tcp           web_custom_nginx
root@vishalpc:~/Docker_tasks/task27# docker run -d --name webserver_27 -p 83:80 mydocker_img:latest
docker: Error response from daemon: Conflict. The container name "/webserver_27" is already in use by container "30ef20a2704d90e95d8e3260b24fd7b525d4c76cde18d37f6ccce9eda05e1a87". You have to remove (or rename) that container to be able to reuse that name.

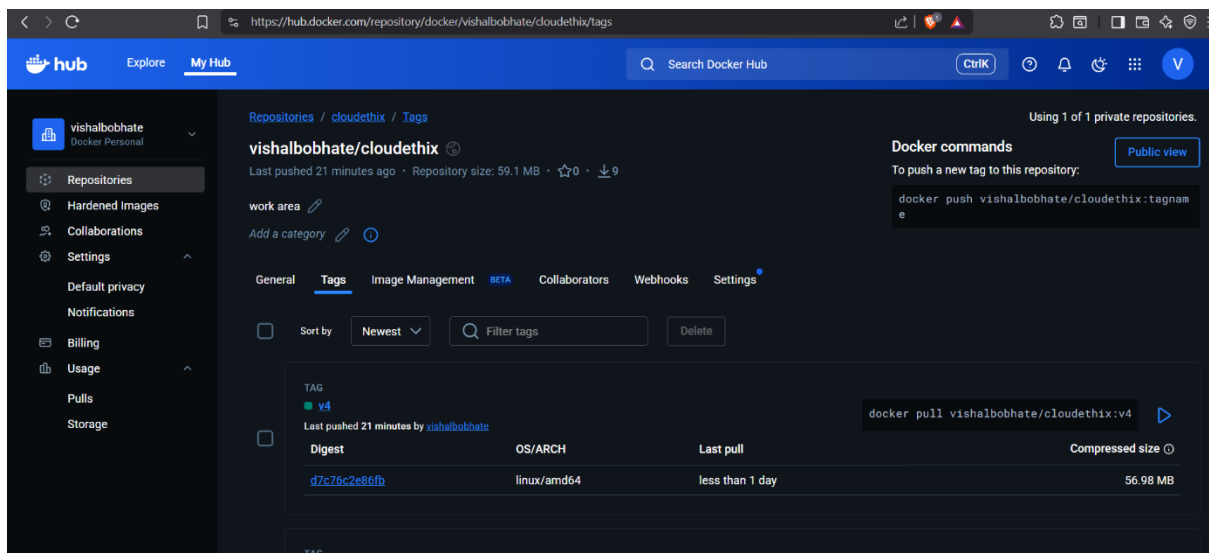
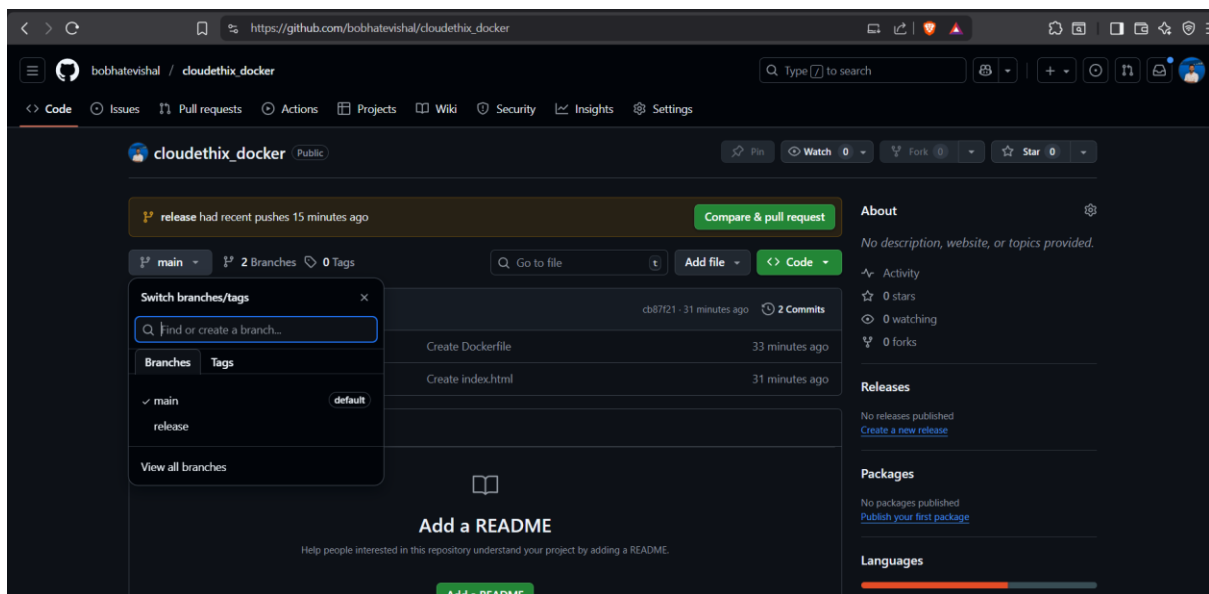
Run 'docker run --help' for more information
root@vishalpc:~/Docker_tasks/task27# docker run -d --name webserver_27 -p 83:80 mydocker_img:latest
c1c07bca333d3d7a4cdf8af96032afeca5c71b43c68a942ca0619703577020f

```





# Hello from CloudEthix WebApp



**28.** Save all local Redis images as a .tar file in the master branch of your local repository. Delete all Redis images from your local system and push the master branch to the remote repository. Load the Redis images from the tar file to your local system, and verify that all images have been loaded correctly.

```
root@vishalpc:~/Docker_tasks# ls
Dockerfile  custom-index.html  task27
root@vishalpc:~/Docker_tasks# docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
mydocker_img        latest      b5768552ea59  33 minutes ago 152MB
vishalbobhate/cloudethix  v4         b5768552ea59  33 minutes ago 152MB
vishalbobhate/cloudethix  latest     2b7f61ec9a0d  3 hours ago   152MB
httpd               latest     6a4fe18d08d2  2 days ago    117MB
nginx               latest     d261fd19cb63  2 days ago    152MB
redis               latest     017b1c12abf9  2 days ago    137MB
vishalbobhate/vishal_cloudethix_redis  version1   017b1c12abf9  2 days ago    137MB
vishalbobhate/vishal_cloudethix_redis  version3   017b1c12abf9  2 days ago    137MB
busybox             latest     08ef35a1c3f0  13 months ago 4.43MB
vishalbobhate/cloudethix  v1         08ef35a1c3f0  13 months ago 4.43MB
root@vishalpc:~/Docker_tasks# docker image ls | grep -i "redis"
vishalbobhate/vishal_cloudethix_redis  version1   017b1c12abf9  2 days ago    137MB
vishalbobhate/vishal_cloudethix_redis  version3   017b1c12abf9  2 days ago    137MB
redis                                   latest     017b1c12abf9  2 days ago    137MB
root@vishalpc:~/Docker_tasks# git branch
fatal: not a git repository (or any of the parent directories): .git
root@vishalpc:~/Docker_tasks# cd task27
root@vishalpc:~/Docker_tasks/task27# git branch
* master
* release
root@vishalpc:~/Docker_tasks/task27# git checkout master
Switched to branch 'master'
```

```
root@vishalpc:~/Docker_tasks/task27# git checkout master
Switched to branch 'master'
root@vishalpc:~/Docker_tasks/task27# docker save -o redis1.tar > vishalbobhate/vishal_cloudethix_redis:version1
-bash: vishalbobhate/vishal_cloudethix_redis:version1: No such file or directory
root@vishalpc:~/Docker_tasks/task27# docker save -o redis1.tar vishalbobhate/vishal_cloudethix_redis:version1
root@vishalpc:~/Docker_tasks/task27# docker save -o redis3.tar vishalbobhate/vishal_cloudethix_redis:version3
root@vishalpc:~/Docker_tasks/task27# ls
cloudethix_docker  redis1.tar  redis3.tar
root@vishalpc:~/Docker_tasks/task27# git add .
root@vishalpc:~/Docker_tasks/task27# git commit -m "redis.tar files added"
[master f7c515a] redis.tar files added
Committer: root <root@vishalpc.localdomain>
```

```
root@vishalpc:~/Docker_tasks/task27# git checkout master
Switched to branch 'master'
root@vishalpc:~/Docker_tasks/task27# docker save -o redis1.tar > vishalbobhate/vishal_cloudethix_redis:version1
-bash: vishalbobhate/vishal_cloudethix_redis:version1: No such file or directory
root@vishalpc:~/Docker_tasks/task27# docker save -o redis1.tar vishalbobhate/vishal_cloudethix_redis:version1
root@vishalpc:~/Docker_tasks/task27# docker save -o redis3.tar vishalbobhate/vishal_cloudethix_redis:version3
root@vishalpc:~/Docker_tasks/task27# ls
cloudethix_docker  redis1.tar  redis3.tar
root@vishalpc:~/Docker_tasks/task27# git add .
root@vishalpc:~/Docker_tasks/task27# git commit -m "redis.tar files added"
[master f7c515a] redis.tar files added
Committer: root <root@vishalpc.localdomain>
```

```

root@vishalpc:~/Docker_tasks/task27# gunzip redis1.tar.gz redis3.tar.gz
root@vishalpc:~/Docker_tasks/task27# gunzip redis1.tar.gz redis3.tar.gz
root@vishalpc:~/Docker_tasks/task27# ls
cloudethix_docker redis1.tar redis3.tar
root@vishalpc:~/Docker_tasks/task27# docker load -i redis1.tar
Loaded image: vishalbobhate/vishal_cloudethix_redis:version1
root@vishalpc:~/Docker_tasks/task27# docker load -i redis3.tar
Loaded image: vishalbobhate/vishal_cloudethix_redis:version3
root@vishalpc:~/Docker_tasks/task27# docker image ls
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
mydocker_img        latest       b5768552ea59  About an hour ago  152MB
vishalbobhate/cloudethix  v4          b5768552ea59  About an hour ago  152MB
vishalbobhate/cloudethix  latest      2b7f61ec9a0d  3 hours ago     152MB
httpd               latest      6a4fe18d08d2  2 days ago     117MB
nginx               latest      d261fd19cb63  2 days ago     152MB
redis               latest      017b1c12abf9  2 days ago     137MB
vishalbobhate/vishal_cloudethix_redis  version1    017b1c12abf9  2 days ago     137MB
vishalbobhate/vishal_cloudethix_redis  version3    017b1c12abf9  2 days ago     137MB
busybox             latest      08ef35a1c3f0  13 months ago   4.43MB
vishalbobhate/cloudethix  v1          08ef35a1c3f0  13 months ago   4.43MB
root@vishalpc:~/Docker_tasks/task27# docker image ls | grep -i redis
redis               latest      017b1c12abf9  2 days ago     137MB
vishalbobhate/vishal_cloudethix_redis  version1    017b1c12abf9  2 days ago     137MB
vishalbobhate/vishal_cloudethix_redis  version3    017b1c12abf9  2 days ago     137MB
root@vishalpc:~/Docker_tasks/task27#

```

The screenshot shows a GitHub repository page for 'cloudethix\_docker' by user 'bobhatevishal'. The repository is public and has 2 commits. The commit history shows a sequence of files being added: 'cloudethix\_docker' (first commit), 'redis1.tar.gz', and 'redis3.tar.gz'. The repository has 0 stars, 0 watching, and 0 forks. The 'About' section is empty. The 'Releases' section shows no releases published. The 'Packages' section shows no packages published. The 'Languages' section shows a bar chart with HTML at 62.8% and Dockerfile at 37.2%.

**29.** Pull the Busy-box image to your local system, tag it, and push it to the Docker Hub repository "yourname\_cloudethix\_busybox." Export the Docker image from the NGINX container, create a .tar file, and import the tar file to create a Docker image with a meaningful name. After importing the image, tag it and push it to the "yourname\_cloudethix\_busybox" Docker Hub repository.

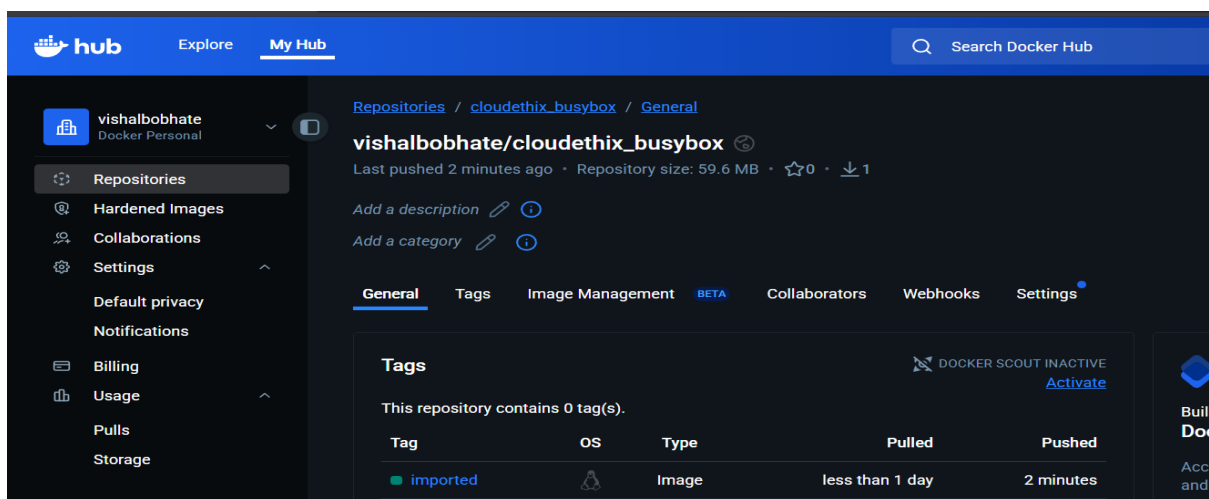
```
10019
vishalbobhate/vishal_cloudethix_redis version1 017b1c12abf9 2 days ago 137MB
vishalbobhate/vishal_cloudethix_redis version3 017b1c12abf9 2 days ago 137MB
busybox latest 08ef35alc3f0 13 months ago 4.43MB
vishalbobhate/cloudethix v1 08ef35alc3f0 13 months ago 4.43MB
vishalbobhate/cloudethix_busybox v5 08ef35alc3f0 13 months ago 4.43MB
root@vishalpc:~/Docker_tasks# docker push bobhatevishal/cloudethix_busybox:v5
The push refers to repository [docker.io/bobhatevishal/cloudethix_busybox]
An image does not exist locally with the tag: bobhatevishal/cloudethix_busybox
root@vishalpc:~/Docker_tasks# docker tag busybox:latest vishalbobhate/cloudethix_busybox:v5
root@vishalpc:~/Docker_tasks# docker push bobhatevishal/cloudethix_busybox:v5
The push refers to repository [docker.io/bobhatevishal/cloudethix_busybox]
An image does not exist locally with the tag: bobhatevishal/cloudethix_busybox
root@vishalpc:~/Docker_tasks# docker tag vishalbobhate/cloudethix_busybox vishalbobhate/cloudethix_busybox:v5
Error response from daemon: No such image: vishalbobhate/cloudethix_busybox:latest
root@vishalpc:~/Docker_tasks# docker tag vishalbobhate/cloudethix_busybox:v5 vishalbobhate/cloudethix_busybox:v5
root@vishalpc:~/Docker_tasks# docker push bobhatevishal/cloudethix_busybox:v5
The push refers to repository [docker.io/bobhatevishal/cloudethix_busybox]
An image does not exist locally with the tag: bobhatevishal/cloudethix_busybox
root@vishalpc:~/Docker_tasks# docker login
Authenticating with existing credentials... [Username: vishalbobhate]

Info → To login with a different account, run 'docker logout' followed by 'docker login'

Login Succeeded
```

```
root@vishalpc:~/Docker_tasks# docker push vishalbobhate/cloudethix_busybox:v5
The push refers to repository [docker.io/vishalbobhate/cloudethix_busybox]
e14542cc0629: Mounted from vishalbobhate/cloudethix
v5: digest: sha256:755d9ce09782b2f60fd3321878e611f871817aa8a726e8c605f2f67ae6ffa9e2 size: 527
root@vishalpc:~/Docker_tasks# docker run -d --name nginx_container nginx
669ae08cb00cb15e8f8a624c3e5cbb9b94722d9b2785ecef47ae42e054c17a1c
root@vishalpc:~/Docker_tasks# docker export nginx_container -o nginx_cont.tar
root@vishalpc:~/Docker_tasks# ls
Dockerfile custom-index.html nginx_cont.tar task27
root@vishalpc:~/Docker_tasks# docker import nginx_cont.tar vishalbobhate/cloudethix_busybox:v5
sha256:4d01f95718d4655f87434a653f816860114dcd69779a5ef1fa44df44c216849e
root@vishalpc:~/Docker_tasks# docker image ls | grep -i busybox
vishalbobhate/cloudethix_busybox v5 4d01f95718d4 2 minutes ago 150MB
busybox latest 08ef35alc3f0 13 months ago 4.43MB
vishalbobhate/cloudethix_busybox <none> 08ef35alc3f0 13 months ago 4.43MB
root@vishalpc:~/Docker_tasks# docker import nginx_cont.tar vishalbobhate/cloudethix_busybox:imported
```

```
root@vishalpc:~/Docker_tasks# docker import nginx_cont.tar vishalbobhate/cloudethix_busybox:imported
sha256:b96ccca240c4b9729ddd260c1fcc9551a6d2de52d21595968b54841fe883f060
root@vishalpc:~/Docker_tasks# docker image ls | grep -i busybox
vishalbobhate/cloudethix_busybox imported b96ccca240c4 4 seconds ago 150MB
vishalbobhate/cloudethix_busybox v5 4d01f95718d4 4 minutes ago 150MB
busybox latest 08ef35alc3f0 13 months ago 4.43MB
vishalbobhate/cloudethix_busybox <none> 08ef35alc3f0 13 months ago 4.43MB
root@vishalpc:~/Docker_tasks# docker tag vishalbobhate/cloudethix_busybox:imported vishalbobhate/cloudethix_busybox:imported
root@vishalpc:~/Docker_tasks# docker pu
pull (Download an image from a registry) push (Upload an image to a registry)
root@vishalpc:~/Docker_tasks# docker push vishalbobhate/cloudethix_busybox:imported
The push refers to repository [docker.io/vishalbobhate/cloudethix_busybox]
1bce9712f895: Pushed
imported: digest: sha256:b6aaa9c155106eac66b84954a51a19a7992f03c6ee3b6e4b0aec59e38023c796 size: 528
root@vishalpc:~/Docker_tasks# |
```



**30. Dockerfile creation:** Create a simple Dockerfile to build a custom image with the following specifications:

Base image: Ubuntu

Install packages: curl, vim, and git

Set an environment variable: MY\_NAME=Your\_Name

Build the custom image using docker build and list all available images using docker images.

```
root@vishalpc:~/Docker_tasks# mkdir Docker_task30
root@vishalpc:~/Docker_tasks# cd Docker_task30/
root@vishalpc:~/Docker_tasks/Docker_task30# nano Dockerfile
root@vishalpc:~/Docker_tasks/Docker_task30# docker build -t task30_img .
[+] Building 52.8s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 150B
=> [internal] load metadata for docker.io/library/ubuntu:latest
=> [auth] library/ubuntu:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/2] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfcb5252
=> => resolve docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfcb5252
=> => sha256:97bed23a34971024aa8d254abbe67b7168772340d1f494034773bc464e8dd5b6 2.30kB / 2.30kB
=> => sha256:4b3ffd8ccb5201a0fc03585952effb4ed2d1ea5e704d2e7330212fb8b16c86a3 29.72MB / 29.72MB
=> => sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfcb5252 6.69kB / 6.69kB
=> => sha256:d22e4fb389065efa4a61bb36416768698ef6d955fe8a7e0c3d6de80fa7eec 424B / 424B
=> => extracting sha256:4b3ffd8ccb5201a0fc03585952effb4ed2d1ea5e704d2e7330212fb8b16c86a3
=> [2/2] RUN apt-get update && apt-get install -y curl vim git
=> => exporting image
=> => exporting layers
=> => writing image sha256:95b554af674a2c4901bf77c1eb1731e62debc8aca89a5c76bc20a97da233682
=> => naming to docker.io/library/task30_img
root@vishalpc:~/Docker_tasks/Docker_task30# docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
task30_img           latest      95b554af674a  19 seconds ago 289MB
vishalbobhate/cloudethix_busybox  imported   b96ccca240c4  11 minutes ago 150MB
vishalbobhate/cloudethix_busybox  v5         4d01f95718d4  15 minutes ago 150MB
```

```
=> => naming to docker.io/library/task30_img
root@vishalpc:~/Docker_tasks/Docker_task30# docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
task30_img           latest      95b554af674a  19 seconds ago 289MB
vishalbobhate/cloudethix_busybox  imported   b96ccca240c4  11 minutes ago 150MB
vishalbobhate/cloudethix_busybox  v5         4d01f95718d4  15 minutes ago 150MB
mydocker_img         latest      b5768552ea59  2 hours ago    152MB
vishalbobhate/cloudethix  v4         b5768552ea59  2 hours ago    152MB
vishalbobhate/cloudethix  latest     2b7f61ec9a0d  4 hours ago    152MB
httpd                 latest     6a4fe18d08d2  2 days ago     117MB
nginx                  latest     d261fd19cb63  2 days ago     152MB
redis                  latest     017b1c12abf9  2 days ago     137MB
vishalbobhate/vishal_cloudethix_redis  version1   017b1c12abf9  2 days ago     137MB
vishalbobhate/vishal_cloudethix_redis  version3   017b1c12abf9  2 days ago     137MB
busybox                latest     08ef35a1c3f0  13 months ago  4.43MB
vishalbobhate/cloudethix  v1         08ef35a1c3f0  13 months ago  4.43MB
vishalbobhate/cloudethix_busybox  <none>     08ef35a1c3f0  13 months ago  4.43MB
root@vishalpc:~/Docker_tasks/Docker_task30# docker run -it task30_img:latest
root@0b7198096658:/# hostname
0b7198096658
root@0b7198096658:/# echo "$MY_NAME"
Vishal_Bobhate
root@0b7198096658:/# |
```

### 31. Create Directories: Establish two directories named "DHUB" and "AWSECR."

```
root@vishalpc:~/Docker_tasks/Docker_task30# mkdir DHUB AWSECR
root@vishalpc:~/Docker_tasks/Docker_task30# ls -ltr
total 12
-rw-r--r-- 1 root root 113 Nov  6 10:56 Dockerfile
drwxr-xr-x 2 root root 4096 Nov  6 11:04 DHUB
drwxr-xr-x 2 root root 4096 Nov  6 11:04 AWSECR
root@vishalpc:~/Docker_tasks/Docker_task30# |
```

### 32. Dockerfile Creation: Develop two Dockerfiles to construct custom images with the following specifications:

- Base image: Ubuntu
- Install packages: httpd
- Add "I am from Docker Hub" to the index.html file for DHUB directory and "I am from ECR" for AWSECR directory.
- Set environment variable ENV\_NAME=DHUB for the DHUB directory and ENV\_NAME=AWSECR for the AWSECR directory.
- Start http service using ENTRYPOINT
- Expose port 80.

```
root@vishalpc:~/Docker_tasks/Docker_task30# cd DHUB/
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# ls
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# nano Dockerfile
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# docker build -t Dhub_img .
[+] Building 0.0s (0/0)                                docker:default
ERROR: failed to build: invalid tag "Dhub_img": repository name must be lowercase
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# docker build -t dhub_img .
[+] Building 37.1s (8/8) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 255B                                0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest    2.3s
=> [auth] library/ubuntu:pull token for registry-1.docker.io       0.0s
=> [internal] load .dockerignore                                    0.1s
=> => transferring context: 2B                                       0.0s
=> CACHED [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252 0.0s
=> [2/3] RUN apt-get update && apt-get install -y apache2          31.4s
=> [3/3] RUN echo "I am from Docker Hub" > /var/www/html/index.html 1.3s
=> exporting to image                                              1.6s
=> => exporting layers                                              1.4s
=> => writing image sha256:81521e6f9dfae71024b5495d2d98b3d47118792164666ec386888fd8bfc9b3b 0.0s
=> => naming to docker.io/library/dhub_img                         0.1s
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# docker image ls | grep -i dhub
dhub_img          latest          81521e6f9dfa   About a minute ago   241MB
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# docker run -d --name dhubapp -p 8090:80 dhub_img:latest
ead6808bd832533a32759d79203871013c138c5a9e91e893ca5b9e42730c547d
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# |
```

```
GNU nano 7.2 Dockerfile
FROM ubuntu:latest

RUN apt-get update && apt-get install -y apache2

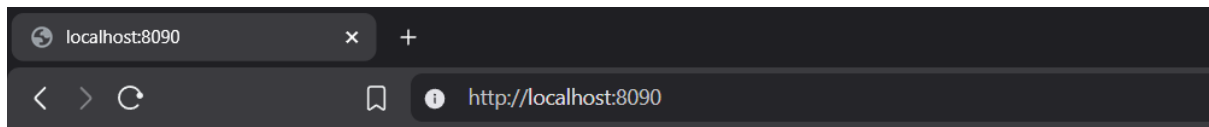
RUN echo "I am from Docker Hub" > /var/www/html/index.html

ENV ENV_NAME=DHUB

EXPOSE 80

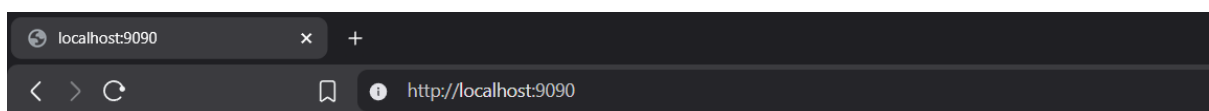
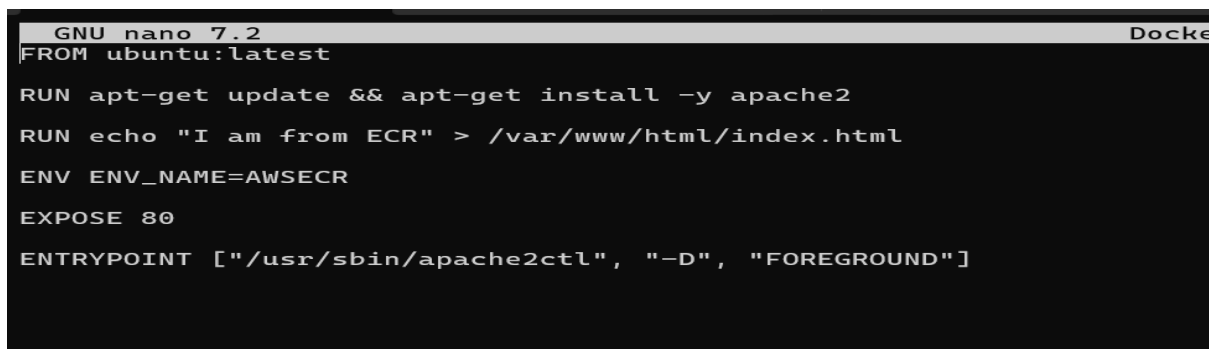
ENTRYPOINT ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
```





I am from Docker Hub

```
root@vishalpc:~/Docker_tasks/Docker_task30/DHUB# cd ..
root@vishalpc:~/Docker_tasks/Docker_task30# cd AWSECR/
root@vishalpc:~/Docker_tasks/Docker_task30/AWSECR# nano Dockerfile
root@vishalpc:~/Docker_tasks/Docker_task30/AWSECR# docker build -t awsecr_app .
[+] Building 2.9s (8/8) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile              0.1s
=> => transferring dockerfile: 250B                             0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 1.9s
=> [auth] library/ubuntu:pull token for registry-1.docker.io    0.0s
=> [internal] load .dockerignore                                 0.1s
=> => transferring context: 2B                                    0.0s
=> [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfcb5252 0.0s
=> CACHED [2/3] RUN apt-get update && apt-get install -y apache2 0.0s
=> [3/3] RUN echo "I am from ECR" > /var/www/html/index.html   0.6s
=> exporting to image                                           0.1s
=> => exporting layers                                           0.1s
=> => writing image sha256:b79ad855aef77639a22959dfa98c9ff0ba80bc4b368f77ab631c84bf6192bfb53 0.0s
=> => naming to docker.io/library/awsecr_app                    0.0s
root@vishalpc:~/Docker_tasks/Docker_task30/AWSECR# docker image ls | grep -i awse
awsecr_app          latest          b79ad855aef7    14 seconds ago    241MB
root@vishalpc:~/Docker_tasks/Docker_task30/AWSECR# docker run -d --name awsecr_svr -p 9090:80 awsecr_app:latest
55a430ea4197ee0a62e396e6df2c9358faed80582f7202abb2d21d2917f48730
```



I am from ECR

**33. Build Custom Images:** Utilize the docker build command to build the custom images. List all available images using docker images.

```
root@vishalpc:~/Docker_tasks/Docker_task30/AWSECR# docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
awsecr_app           latest      b79ad855aef7  5 minutes ago  241MB
dhub_img             latest      81521e6f9dfa  14 minutes ago 241MB
```

**34. Push Images to Repositories:** Push the Docker image to Docker Hub. Push the Docker image to AWS ECR.

```
root@vishalpc:~/Docker_tasks/Docker_task30# docker tag awsecr_app:latest vishalbobhate/cloudethix:v10
root@vishalpc:~/Docker_tasks/Docker_task30# docker tag dhub_img:latest vishalbobhate/cloudethix:v11
root@vishalpc:~/Docker_tasks/Docker_task30# docker push vishalbobhate/cloudethix
Using default tag: latest
The push refers to repository [docker.io/vishalbobhate/cloudethix]
3cef8777468f: Layer already exists
d7217c60dca4: Layer already exists
d81df94f8d07: Layer already exists
99cd1b1b6a43: Layer already exists
2ced4cd78a7b: Layer already exists
8feb164cd673: Layer already exists
6e19587ac541: Layer already exists
36d06fe0cbc6: Layer already exists
latest: digest: sha256:7ba86a332bd8c8b06d4856cedaa225d293b6ed77c7a286587e6a2518284b35aa size: 1985
root@vishalpc:~/Docker_tasks/Docker_task30#
```

```
Default region name [None]:
Default output format [None]:
root@vishalpc:~# aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/n6g3p4z8

WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
root@vishalpc:~# cd -
/root/Docker_tasks/Docker_task30
root@vishalpc:~/Docker_tasks/Docker_task30# docker build -t vishal/apache2_01 .
[+] Building 4.2s (7/7) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile              0.1s
=> => transferring dockerfile: 150B                               0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest  3.1s
=> [auth] library/ubuntu:pull token for registry-1.docker.io    0.0s
=> [internal] load .dockerignore                                  0.0s
=> => transferring context: 2B                                     0.0s
=> [1/2] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252  0.1s
=> CACHED [2/2] RUN apt-get update && apt-get install -y curl vim git 0.0s
=> exporting to image                                           0.1s
=> => exporting layers                                           0.0s
=> => writing image sha256:95b554af674a2c4901b1f77c1eb1731e62debc8aca89a5c76bc20a97da233682 0.0s
=> => naming to docker.io/vishal/apache2_01                      0.0s
root@vishalpc:~/Docker_tasks/Docker_task30# docker tag vishal/apache2_01:latest public.ecr.aws/n6g3p4z8/vishal/apache2_01:latest
root@vishalpc:~/Docker_tasks/Docker_task30# docker push public.ecr.aws/n6g3p4z8/vishal/apache2_01:latest
The push refers to repository [public.ecr.aws/n6g3p4z8/vishal/apache2_01]
fc1989447a26: Pushed
073ec47a8c22: Pushed
latest: digest: sha256:d13b6cb5922991023c49713a6f09ffe902c291ebb0c6c6925d386fb9db220657 size: 741
root@vishalpc:~/Docker_tasks/Docker_task30#
```



### 35. Run Containers:

`docker run -d -p 8081:80 --name I_AM_FROM_DHUB your_docker_hub_image`

`docker run -d -p 8082:80 --name I_AM_FROM_ECR your_aws_ecr_image`

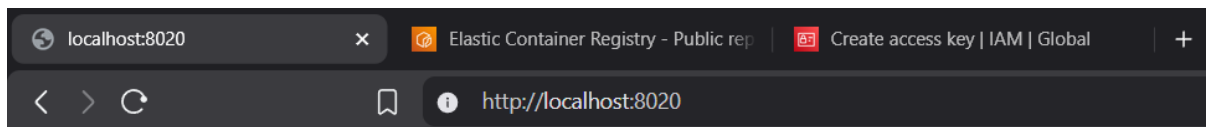
```
Run 'docker run --help' for more information
root@vishalpc:~/Docker_tasks/Docker_task30# docker run -d -p 8020:80 --name I_AM_FROM_DHUB vishalbobhate/cloudethix:latest
a485817e078eed6d23d76b7eb66265d2632a931e248a1098e43c06d303277cf6
root@vishalpc:~/Docker_tasks/Docker_task30# docker run -d -p 8030:80 --name I_AM_FROM_ECR public.ecr.aws/n6g3p4z8/vishal/apache2_01
c4eb666e913fc71291a0f739b4842827fbbc30810bb0e469c37bc398365b7fb5
root@vishalpc:~/Docker_tasks/Docker_task30#
root@vishalpc:~/Docker_tasks/Docker_task30#
```

### 36. Access Pages from Browser:

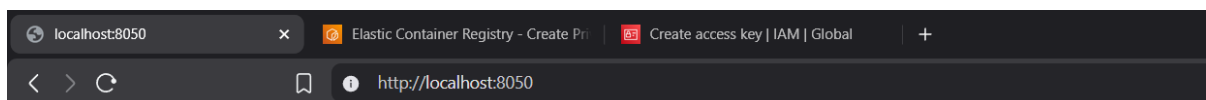
Open a web browser and access the pages:

For Docker Hub: <http://localhost:8081>

For AWS ECR: <http://localhost:8082>



hello everyone this is my web1



I am from ECR