

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

ref links :-

<https://docs.docker.com/engine/reference/commandline/update/>

```
root@AjinkyaPame:~/Docker# docker container update --memory=1024m --cpus=1.5 elegant_jang
elegant_jang
root@AjinkyaPame:~/Docker# docker container inspect elegant_jang | grep -i cpu
    "CpuShares": 0,
    "NanoCpus": 1500000000,
    "CpuPeriod": 0,
    "CpuQuota": 0,
    "CpuRealtimePeriod": 0,
    "CpuRealtimeRuntime": 0,
    "CpusetCpus": "",
    "CpusetMems": "",
    "CpuCount": 0,
    "CpuPercent": 0,
root@AjinkyaPame:~/Docker# docker container inspect elegant_jang | grep -i Memory
    "Memory": 1073741824,
    "MemoryReservation": 0,
    "MemorySwap": 1073741824,
    "MemorySwappiness": null,
root@AjinkyaPame:~/Docker# |
```

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

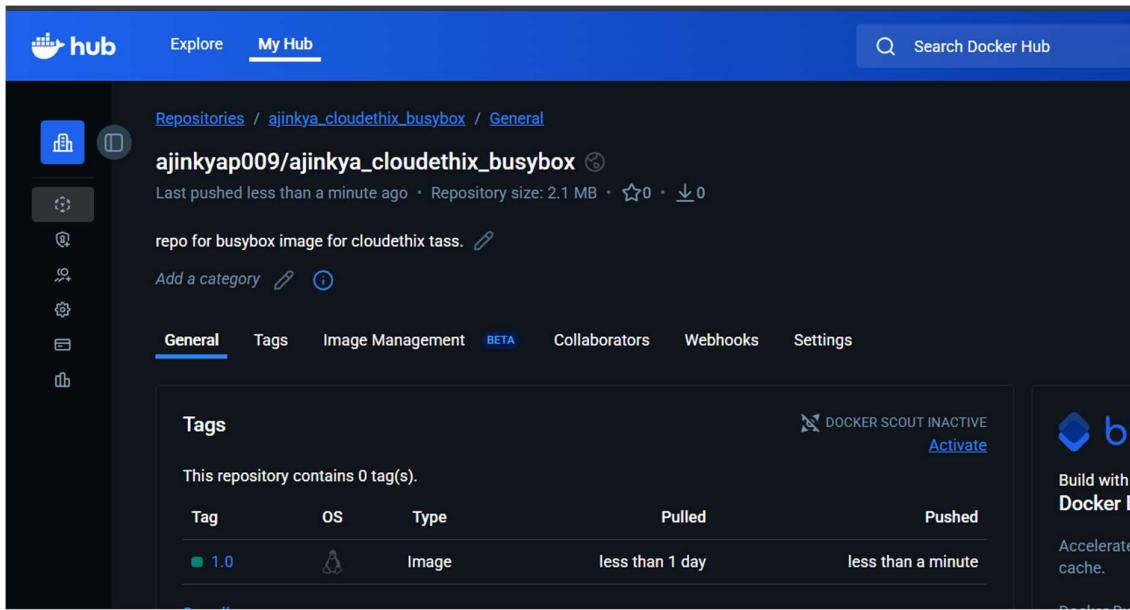
```
root@AjinkyaPame:~/Docker# docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
Digest: sha256:e3652a00a2fabd16ce889f0aa32c38eec347b997e73bd09e69c962ec7f8732ee
Status: Image is up to date for busybox:latest
docker.io/library/busybox:latest
root@AjinkyaPame:~/Docker# docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
httpd              latest   6a4fe18d08d2  2 days ago   117MB
nginx              latest   d261fd19cb63  2 days ago   152MB
docker-compose-db  latest   890f0a9fcada  6 months ago  859MB
busybox             latest   08ef35a1c3f0  13 months ago  4.43MB
root@AjinkyaPame:~/Docker# docker tag busybox:latest ajinkyap009/ajinkya_cloudehix_busybox:1.0
```

```
root@AjinkyaPame:~/Docker# docker login
USING WEB-BASED LOGIN
Info → To sign in with credentials on the command line, use 'docker login -u <username>'

Your one-time device confirmation code is: KGXZ-CLXD
Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate

Waiting for authentication in the browser...
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@AjinkyaPame:~/Docker# docker push ajinkyap009/ajinkya_cloudehix_busybox:1.0
The push refers to repository [docker.io/ajinkyap009/ajinkya_cloudehix_busybox]
e14542cc0629: Mounted from library/busybox
1.0: digest: sha256:755d9ce09782b2f60fd3321878e611f871817aa8a726e8c605f2f67ae6ffa9e2 size: 527
root@AjinkyaPame:~/Docker# |
```



**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 to 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@AjinkyaPame:~/Docker# mkdir TASK_25
root@AjinkyaPame:~/Docker# cd TASK_25/
root@AjinkyaPame:~/Docker/TASK_25#
root@AjinkyaPame:~/Docker/TASK_25# nano Dockerfile
root@AjinkyaPame:~/Docker/TASK_25# nano custom-index.html
```

```
root@AjinkyaPame:~/Docker/TASK_25# docker build -t ajinkyap009/custom-nginx:01 .
[+] Building 0.1s (7/7) FINISHED
--> [internal] Load build definition from Dockerfile
--> => transferring dockerfile: 11B
--> [internal] Load metadata for docker.io/library/nginx:latest
--> [internal] Load .dockerignore
--> => transferring context: 2B
--> [internal] Load build context
--> => transferring context: 38B
--> [1/2] FROM docker.io/library/nginx:latest
--> => CACHED [2/2] COPY custom-index.html /usr/share/nginx/html/index.html
--> => exporting image
--> => exporting layers
--> => writing image sha256:c455ab38add073441eb42594b1aa12a0cbf64453d992457f2df6be58e23ea8a2
--> => naming to docker.io/ajinkyap009/custom-nginx:01
```

```

root@AjinkyaPame:~/Docker/TASK_25# docker image ls
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
ajinkyap009/custom-nginx    01      c455ab38add0  About a minute ago  152MB
httpd              latest   6a4fe18d08d2  2 days ago   117MB
nginx              latest   d261fd19cb63  2 days ago   152MB
docker-compose-db  latest   890f0a9fcada  6 months ago  859MB
ajinkyap009/ajinkya_clouethix_busybox  1.0      08ef35a1c3f0  13 months ago  4.43MB
busybox             latest   08ef35a1c3f0  13 months ago  4.43MB
root@AjinkyaPame:~/Docker/TASK_25# docker push ajinkyap009/custom-nginx:01
The push refers to repository [docker.io/ajinkyap009/custom-nginx]
3a13a0513f8c: Pushed
d7217c60dca4: Pushed
d81df94f8d07: Pushed
99cd1b1b6a43: Pushed
2ced4cd78a7b: Pushed
8feb164cd673: Pushed
6e19587ac541: Pushed
36d06fe0cbc6: Pushed
01: digest: sha256:1770c3f725e6d09e0b2a8e76c9e45c22c57b71c4af3c3482375c958d779e657d size: 1985
root@AjinkyaPame:~/Docker/TASK_25#

```

```

root@AjinkyaPame:~/Docker/TASK_25# docker rmi ajinkyap009/custom-nginx:01
Untagged: ajinkyap009/custom-nginx:01
Untagged: ajinkyap009/custom-nginx@sha256:1770c3f725e6d09e0b2a8e76c9e45c22c57b71c4af3c3482375c958d779e657d
Deleted: sha256:c455ab38add073441eb42504b1aa12a0cbf64453d992457f2df6be58e23ea8a2
root@AjinkyaPame:~/Docker/TASK_25# docker image ls
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
httpd              latest   6a4fe18d08d2  2 days ago   117MB
nginx              latest   d261fd19cb63  2 days ago   152MB
docker-compose-db  latest   890f0a9fcada  6 months ago  859MB
busybox             latest   08ef35a1c3f0  13 months ago  4.43MB
ajinkyap009/ajinkya_clouethix_busybox  1.0      08ef35a1c3f0  13 months ago  4.43MB
root@AjinkyaPame:~/Docker/TASK_25# lsof -i :8080

```

```

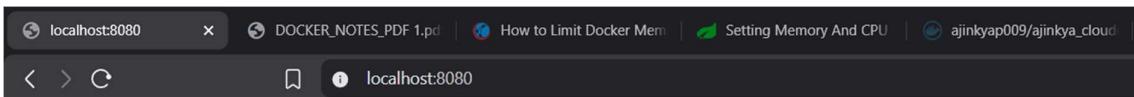
root@AjinkyaPame:~/Docker/TASK_25# docker container run -d --name custom-nginx-cont -p 8080:80 ajinkyap009/custom-nginx:01
Unable to find image 'ajinkyap009/custom-nginx:01' locally
01: Pulling from ajinkyap009/custom-nginx
fb60efab8139: Already exists
266626526d42: Already exists
320b0949be89: Already exists
d921c57c6a81: Already exists
9def903993e4: Already exists
52bc359bcd7d: Already exists
e2f8e296d9df: Already exists
ed0870114318: Already exists
Digest: sha256:1770c3f725e6d09e0b2a8e76c9e45c22c57b71c4af3c3482375c958d779e657d
Status: Downloaded newer image for ajinkyap009/custom-nginx:01
e6c67bbc0797ccae8ee5381bdb9a78f232e4edf47b8be269b632f1313d6d52

```

```

root@AjinkyaPame:~/Docker/TASK_25# docker image ls
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
ajinkyap009/custom-nginx    01      c455ab38add0  10 minutes ago  152MB
httpd              latest   6a4fe18d08d2  2 days ago   117MB
nginx              latest   d261fd19cb63  2 days ago   152MB
docker-compose-db  latest   890f0a9fcada  6 months ago  859MB
ajinkyap009/ajinkya_clouethix_busybox  1.0      08ef35a1c3f0  13 months ago  4.43MB
busybox             latest   08ef35a1c3f0  13 months ago  4.43MB
root@AjinkyaPame:~/Docker/TASK_25# docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS                 NAMES
e6c67bbc0797        ajinkyap009/custom-nginx:01   "/docker-entrypoint..."   11 seconds ago   Up 10 seconds   0.0.0.0:8080->80/tcp, :::8080->80/tcp   custom-nginx-cont
root@AjinkyaPame:~/Docker/TASK_25#

```



This is nan-index.html file. Image can be found at <https://hub.docker.com/repository/docker/ajinkyap009/clouethix/general>

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

```
root@AjinkyaPame:~/Docker/TASK_25# docker search redis
NAME                                DESCRIPTION                                     STARS      OFFICIAL
redis                               Redis is the world's fastest data platform f...  13446      [OK]
redis/redis-stack-server             redis-stack-server installs a Redis server w...   98        156
```

```
root@AjinkyaPame:~/Docker/TASK_25# 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@AjinkyaPame:~/Docker/TASK_25# |
```

```
root@AjinkyaPame:~/Docker/TASK_25# docker images
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
ajinkyap009/custom-nginx    01      c455ab38add0  27 minutes ago  152MB
httpd               latest   6a4fe18d08d2  2 days ago   117MB
nginx               latest   d261fd19cb63  2 days ago   152MB
redis               latest   017b1c12abf9  2 days ago   137MB
docker-compose-db   latest   890f0a9fcada  6 months ago  859MB
ajinkyap009/ajinkya_cloudehix_busybox  1.0    08ef35a1c3f0  13 months ago  4.43MB
busybox              latest   08ef35a1c3f0  13 months ago  4.43MB
root@AjinkyaPame:~/Docker/TASK_25# docker tag redis:latest ajinkyap009/ajinkya_cloudehix_redis:v1
root@AjinkyaPame:~/Docker/TASK_25# docker tag redis:latest ajinkyap009/ajinkya_cloudehix_redis:v3
root@AjinkyaPame:~/Docker/TASK_25# docker images
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
ajinkyap009/custom-nginx    01      c455ab38add0  28 minutes ago  152MB
httpd               latest   6a4fe18d08d2  2 days ago   117MB
nginx               latest   d261fd19cb63  2 days ago   152MB
redis               latest   017b1c12abf9  2 days ago   137MB
ajinkyap009/ajinkya_cloudehix_redis   v1    017b1c12abf9  2 days ago   137MB
ajinkyap009/ajinkya_cloudehix_redis   v3    017b1c12abf9  2 days ago   137MB
docker-compose-db   latest   890f0a9fcada  6 months ago  859MB
ajinkyap009/ajinkya_cloudehix_busybox  1.0    08ef35a1c3f0  13 months ago  4.43MB
busybox              latest   08ef35a1c3f0  13 months ago  4.43MB
root@AjinkyaPame:~/Docker/TASK_25# |
```

```
root@AjinkyaPame:~/Docker/TASK_25# docker push ajinkyap009/ajinkya_cloudehix_redis:v1
The push refers to repository [docker.io/ajinkyap009/ajinkya_cloudehix_redis]
4c9d174d85be: Mounted from library/redis
5f70bf18a086: Mounted from ajinkyap009/docker-1
4a34755eccccc: Mounted from library/redis
a4f8354a4eb1: Mounted from library/redis
fd0bc835e87b: Mounted from library/redis
e7fe7688c8dc: Mounted from library/redis
b512279032aa: Mounted from library/redis
v1: digest: sha256:b3f78d38d1ba4758461d84a19af14b8d13c4a44c145b70efb0749418566b6f55 size: 1776
root@AjinkyaPame:~/Docker/TASK_25# docker push ajinkyap009/ajinkya_cloudehix_redis:v3
The push refers to repository [docker.io/ajinkyap009/ajinkya_cloudehix_redis]
4c9d174d85be: Layer already exists
5f70bf18a086: Layer already exists
4a34755eccccc: Layer already exists
a4f8354a4eb1: Layer already exists
fd0bc835e87b: Layer already exists
e7fe7688c8dc: Layer already exists
b512279032aa: Layer already exists
v3: digest: sha256:b3f78d38d1ba4758461d84a19af14b8d13c4a44c145b70efb0749418566b6f55 size: 1776
```

[Repositories](#) / [ajinkya\\_cloudeithix\\_redis](#) / [General](#)

**ajinkyp009/ajinkya\_cloudeithix\_redis** ⚡

Last pushed less than a minute ago • ⭐0 • ↓0

Add a description  Add a category

[General](#) [Tags](#) [Image Management](#) BETA [Collaborators](#) [Webhooks](#) [Settings](#)

**Tags**

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
v3		Image	less than 1 day	1 minute
v1		Image	less than 1 day	2 minutes

DOCKER SCOUT INACTIVE [Activate](#)

**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\_cloudeithix\_nginx." Finally, push the release branch to the remote Git repository and merge it by creating a pull request.

AjinkyaP-09 / ajinka-cloudeithix-nginx

Type

**ajinka-cloudeithix-nginx** Public 0 0

main 1 Branch 0 Tags  Go to file About

AjinkyaP-09 Merge pull request #1 from AjinkyaP-09/release 092942c · 1 minute ago 5 Commits

Dockerfile Remove nginx base image and index.html copy 1 minute ago

index.html Remove greeting from index.html 1 minute ago

README

**About**

- No description
- Activity
- 0 stars
- 0 watching
- 0 forks

**Releases**

No releases published

```

root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git branch release
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git checkout release
Switched to branch 'release'
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx#
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# ls
Dockerfile index.html
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# nano Dockerfile
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# nano index.html
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git status
On branch release
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   Dockerfile
    modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

```

```

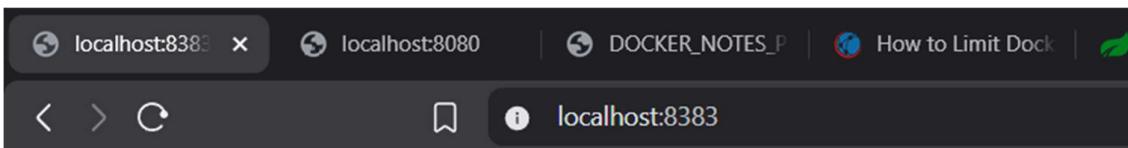
root@AjinkyaPame:~/Docker# cd ajinkya-cloudeithix-nginx/
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git branch
* main
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git branch release
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git branch
* main
  release
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# docker build -t release-branch-img .
[+] Building 0.2s (7/7) FINISHED
--> [internal] Load build definition from Dockerfile
--> => transferring dockerfile: 104B
--> [internal] Load metadata for docker.io/library/nginx:latest
--> [internal] Load .dockerignore
--> => transferring context: 2B
--> [internal] Load build context
--> => transferring context: 153B
--> CACHE [1/2] FROM docker.io/library/nginx:latest
--> [2/2] COPY index.html /usr/share/nginx/html/index.html
--> exporting to image
--> exporting layers
--> => writing image sha256:27feb3f2f417259b0d11d7153a4e927a6da5b328149daa898e0f6679b5fb5138
--> => naming to docker.io/library/release-branch-img
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
release-branch-img     latest   27feb3f2f417   3 seconds ago  152MB

```

```

root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# docker container run -dit --name release-nginx -p 8383:80 release-branch-img
e60f34e69503c2f8089e7f87d1977ce8f1df1806f1086d22dc941a8c87ae3be
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED          STATUS           PORTS          NAMES
e60f34e69503        release-branch-img   "/docker-entrypoint..."   3 seconds ago   Up 3 seconds   0.0.0.0:8383->80/tcp, [::]:8383->80/tcp   release-nginx
e6c67bbc0797        ajinkyap009/custom-nginx:01   "/docker-entrypoint..."   50 minutes ago  Up 50 minutes   0.0.0.0:8080->80/tcp, [::]:8080->80/tcp   custom-nginx
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# 

```



## Hello from ajinkya-cloudeithix-nginx.

```

root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# docker image tag release-branch-img:latest ajinkyap009/ajinkya_cloudeithix_nginx:01
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# docker push ajinkyap009/ajinkya_cloudeithix_nginx:01
The push refers to repository [docker.io/ajinkyap009/ajinkya_cloudeithix_nginx]
52c2e7ff96c: Pushed
d7217c60dcad: Mounted from ajinkyap009/custom-nginx
d81df94f8d07: Mounted from ajinkyap009/custom-nginx
99cd1b1b6a43: Mounted from ajinkyap009/custom-nginx
2ced4cd78a7b: Mounted from ajinkyap009/custom-nginx
8feb164cd673: Mounted from ajinkyap009/custom-nginx
6e19587ac541: Mounted from ajinkyap009/custom-nginx
36d06fe0cbc6: Mounted from ajinkyap009/custom-nginx
01: digest: sha256:98ae183b3ea0508498b8d1da3e98441b941682e0b6c2114234c455de542e81dd size: 1985
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# 

```

Repositories / ajinkya\_cloudeithix\_nginx / General

ajinkyap009/ajinkya\_cloudeithix\_nginx ⓘ

Last pushed 2 minutes ago • ⭐0 • ↓0

Add a description ⓘ

Add a category ⓘ

General Tags Image Management BETA Collaborators Webhooks Settings

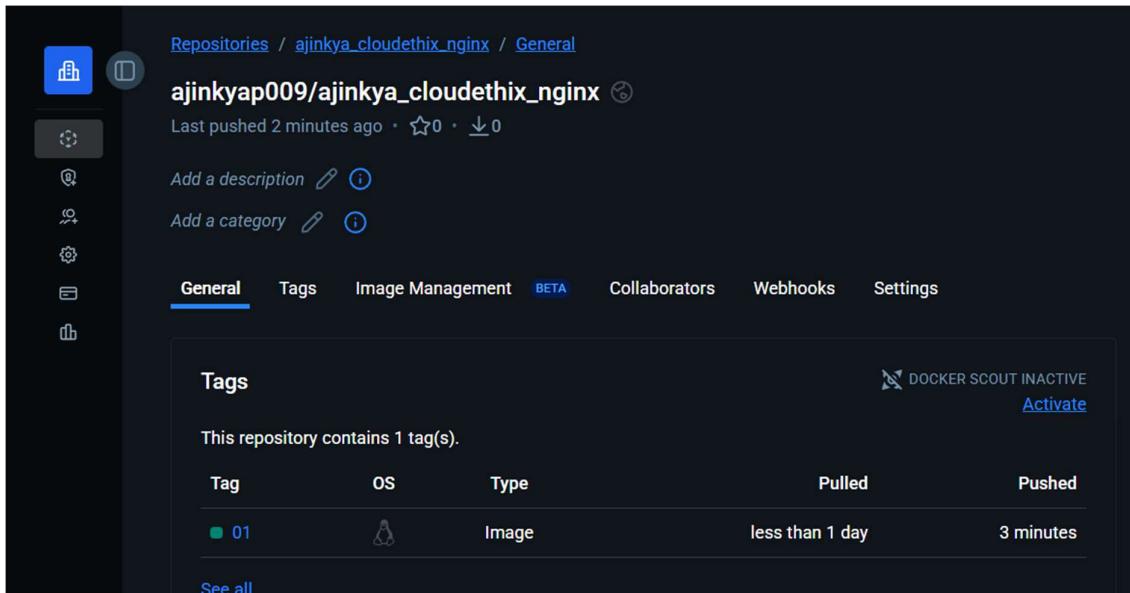
Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
01	Image	Image	less than 1 day	3 minutes

See all

DOCKER SCOUT INACTIVE  
[Activate](#)



```
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git push origin release
Username for 'https://github.com': AJinkyaP-09
Password for 'https://AJinkyaP-09@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 465 bytes | 465.00 KiB/s, done.
Total 4 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'release' on GitHub by visiting:
remote:     https://github.com/AJinkyaP-09/ajinkya-cloudeithix-nginx/pull/new/release
remote:
To https://github.com/AJinkyaP-09/ajinkya-cloudeithix-nginx.git
 * [new branch]      release -> release
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# |
```

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. [Learn more about diff comparisons here.](#)

base: main ⏪ compare: release ⏪ Able to merge. These branches can be automatically merged.

Add a title

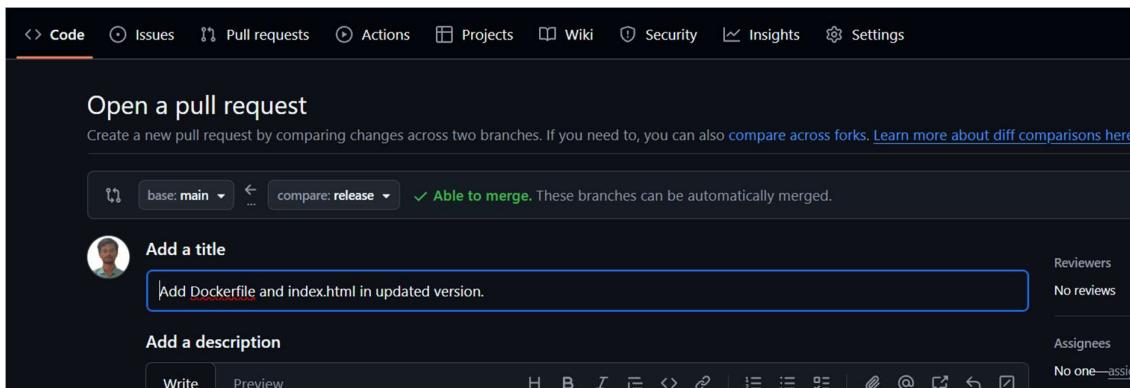
Add Dockerfile and index.html in updated version.

Add a description

Write Preview

Reviewers  
No reviews

Assignees  
No one assigned



**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@AjinkyaPame:~/Docker# cd ajinkya-cloudeithix-nginx/
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# mkdir redis-images
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# cd redis-images/
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx/redis-images# docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
ajinkyap009/ajinkya_cloudeithix_nginx     01      27feb3f2f417   2 hours ago   152MB
release-branch-img      latest   27feb3f2f417   2 hours ago   152MB
ajinkyap009/custom-nginx      01      c455ab38add0   3 hours ago   152MB
httpd              latest   6a4fe18d08d2   2 days ago    117MB
nginx              latest   d261fd19cb63   2 days ago    152MB
ajinkyap009/ajinkya_cloudeithix_redis     v1      017b1c12abf9   2 days ago    137MB
ajinkyap009/ajinkya_cloudeithix_redis     v3      017b1c12abf9   2 days ago    137MB
redis              latest   017b1c12abf9   2 days ago    137MB
docker-compose-db      latest   890f0a9fcada   6 months ago   859MB
ajinkyap009/ajinkya_cloudeithix_busybox  1.0     08ef35a1c3f0   13 months ago  4.43MB
busybox             latest   08ef35a1c3f0   13 months ago  4.43MB
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx/redis-images# docker save -o "redis_v1.tar" ajinkyap009/ajinkya_cloudeithix_redis:v1
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx/redis-images# ll
total 137124
drwxr-xr-x  2 root root  4096 Nov  6 09:18 .
drwxr-xr-x  4 root root  4096 Nov  6 09:17 ..
-rw-----  1 root root 140402688 Nov  6 09:18 redis_v1.tar
```

```
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git checkout master
Switched to branch 'master'
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# mv ..redis-images/ .
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# ll
total 24
drwxr-xr-x  4 root root  4096 Nov  6 09:27 /
drwxr-xr-x  4 root root  4096 Nov  6 09:27 ../
drwxr-xr-x  7 root root  4096 Nov  6 09:27 .git/
-rw-r--r--  1 root root   67 Nov  6 09:26 Dockerfile
-rw-r--r--  1 root root  116 Nov  6 09:26 index.html
drwxr-xr-x  2 root root  4096 Nov  6 09:26 redis-images/
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git add .
root@AjinkyaPame:~/Docker/ajinkya-cloudeithix-nginx# git commit -m "Add redis images"
[master 2ff60ef] Add redis images
```

AjinkaP-09 / ajinka-cloudethix-nginxx

Type ⌘ to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

 **ajinka-cloudethix-nginxx** Public

master had recent pushes 6 seconds ago Compare & pull request

master 3 Branches 0 Tags Go to file Add file Code

This branch is 3 commits ahead of main . Contribute

 **root and root** Add redis images 2ff60ef · 1 minute ago 9 Commits

redis-images Add redis images 1 minute ago

Dockerfile Add Dockerfile and index.html in updated version. 16 minutes ago

index.html Add Dockerfile and index.html in updated version. 16 minutes ago

 README

```

root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx# docker rmi ajinkyp009/ajinka_cloudethix_redis:v1 ajinkyp009/ajinka_cloudethix_redis:v3
Untagged: ajinkyp009/ajinka_cloudethix_redis:v1
Untagged: ajinkyp009/ajinka_cloudethix_redis:v3
Untagged: ajinkyp009/ajinka_cloudethix_redis@sha256:b3f78d38d1ba4758461d84a19af14b8d13c4a44c145b70efb0749418566b6f55
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx# docker images
REPOSITORY          TAG      IMAGE ID      CREATED     SIZE
ajinkyp009/ajinka_cloudethix_nginxx    01      27feb3f2f417   2 hours ago   152MB
release-image        latest   27feb3f2f417   2 hours ago   152MB
ajinkyp009/custom-nginx
httpd               latest   c455ab38add0   3 hours ago   152MB
nginx               latest   d261fd19cb63   2 days ago    152MB
redis               latest   6a4fe18d08d2   2 days ago    117MB
docker-compose-db   latest   898f0a9fcada   6 months ago   859MB
ajinkyp009/ajinka_cloudethix_busybox  1.0     08ef35a1c3f0   13 months ago   4.43MB
busybox              latest   08ef35a1c3f0   13 months ago   4.43MB
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx# docker rmi redis:latest
Untagged: redis:latest
Untagged: redis@sha256:5c7e0445ed86918cb9efb06d95a6bfcc03ed2859fe2c5f02bd474f477fffe47915
Deleted: sha256:017b1c12abf9d40da89a195107ea2c566a0035b59ffcc7a18b4c32c736
Deleted: sha256:d6c88f219d7bdf3086945edaef7d417bf581aa3a980ec085d6641244c2b9983
Deleted: sha256:0afb91539a5fe0cb899de4ea0309948c498b7a875eaff17e51e57bd55ae757
Deleted: sha256:46d3d7e3a243b7c7d1a333bfc801ceca82791717711bbf4659c2750e824f531c
Deleted: sha256:2d9a6c8a4cd1334df777d93674d34445251ddaa30bbbecfb03c787f305b678
Deleted: sha256:cccb6851c32678e7423eeef520376c1087f86a1b4dfc5a7f6136bc3a1eb
Deleted: sha256:998362e5a9b1bb8eb0842b793ff6837c0ee71f26b64695d075c218b139281949
Deleted: sha256:b512279032aa717892385dd875fffcd96e4a4ad384225152522ac7bd5340a8
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx# 
```

```

root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx# cd redis-images/
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# gunzip -c redis_v1.tar.gz > redis_v1.tar
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# gunzip -c redis_v3.tar.gz > redis_v3.tar
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# ll
total 375840
drwxr-xr-x 2 root root 4096 Nov 6 09:34 .
drwxr-xr-x 4 root root 4096 Nov 6 09:27 ..
-rw-r--r-- 1 root root 140402688 Nov 6 09:34 redis_v1.tar
-rw-r--r-- 1 root root 52018380 Nov 6 09:26 redis_v1.tar.gz
-rw-r--r-- 1 root root 140402688 Nov 6 09:34 redis_v3.tar
-rw-r--r-- 1 root root 52018389 Nov 6 09:26 redis_v3.tar.gz

```

```

root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# docker load -i redis_v1.tar
b512279032aa: Loading layer [=====] 77.89MB/77.89MB
e7fe7688c8dc: Loading layer [=====] 10.75kB/10.75kB
fd0bc835e87b: Loading layer [=====] 10.75kB/10.75kB
a4f8354a4eb1: Loading layer [=====] 62.46MB/62.46MB
4a34755ecccc: Loading layer [=====] 1.536kB/1.536kB
5f70bf18a086: Loading layer [=====] 1.024kB/1.024kB
4c9d174d85be: Loading layer [=====] 8.192kB/8.192kB
Loaded image: ajinkyp009/ajinka_cloudethix_redis:v1
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# docker load -i redis_v3.tar
Loaded image: ajinkyp009/ajinka_cloudethix_redis:v3
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# docker images | grep redis
ajinkyp009/ajinka_cloudethix_redis      v1          017b1c12abf9   2 days ago   137MB
ajinkyp009/ajinka_cloudethix_redis      v3          017b1c12abf9   2 days ago   137MB
root@AjinkaPame:~/Docker/ajinka-cloudethix-nginxx/redis-images# 
```

**29.** Pull the Busy-box image to your local system, tag it, and push it to the Docker Hub repository "yourname\_cloudeithix\_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\_cloudeithix\_busybox" Docker Hub repository.

```
root@AjinkyaPame:~/Docker# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
e60f34e69503 release-branch-img "/docker-entrypoint..." 2 hours ago Up 2 hours 0.0.0.0:8383->80/tcp, [::]:8383->80/tcp release-nginx
e6c67bbc0797 ajinkyap009/custom-nginx:01 "/docker-entrypoint..." 3 hours ago Up 3 hours 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp custom-nginx-cont
root@AjinkyaPame:~/Docker# docker export release-nginx > release-nginx.tar
root@AjinkyaPame:~/Docker# ll
total 150156
drwxr-xr-x 4 root root 4096 Nov 6 09:46 .
drwx----- 16 root root 4096 Nov 6 09:37 ..
drwxr-xr-x 2 root root 4096 Nov 6 06:24 TASK_25/
drwxr-xr-x 4 root root 4096 Nov 6 09:37 ajinkya-cloudeithix-nginx/
-rw-r--r-- 1 root root 44 Nov 6 05:36 index.html
-rw-r--r-- 1 root root 153737216 Nov 6 09:46 release-nginx.tar

root@AjinkyaPame:~/Docker# docker import release-nginx.tar ajinkyap009/release-nginx:01
sha256:ba639795e8d8458e3f5fdb27ef9cb7ba95fcbb65c5e60b35049a227027612f99
root@AjinkyaPame:~/Docker# docker images | grep release
ajinkyap009/release-nginx          01      ba639795e8d8  11 seconds ago  150MB
release-branch-img                latest   27feb3f2f417  2 hours ago   152MB
root@AjinkyaPame:~/Docker# docker tag ajinkyap009/release-nginx:01 ajinkyap009/ajinkya_cloudeithix_busybox:v2
root@AjinkyaPame:~/Docker# docker push ajinkyap009/ajinkya_cloudeithix_busybox:v2
The push refers to repository [docker.io/ajinkyap009/ajinkya_cloudeithix_busybox]
bb77e8957cdc: Pushed
v2: digest: sha256:294b9edecc35cbe14ac80518fd002ff1ea8ba6dea45ed81abf038069cff8d346 size: 528
root@AjinkyaPame:~/Docker# |
```

[Repositories](#) / [ajinkya\\_cloudeithix\\_busybox](#) / [General](#)

**ajinkyap009/ajinkya\_cloudeithix\_busybox** ⓘ

Last pushed 1 minute ago • Repository size: 59.6 MB • ⭐0 • ⏪4

repo for busybox image for cloudeithix tass. [🔗](#)

Add a category [🔗](#) [i](#)

[General](#) [Tags](#) [Image Management](#) BETA [Collaborators](#) [Webhooks](#) [Settings](#)

**Tags** [🔗](#) DOCKER SCOUT INACTIVE [Activate](#)

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
v2	BusyBox	Image	less than 1 day	1 minute
1.0	BusyBox	Image	less than 1 day	about 4 hours

**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@AjinkyaPame:~/Docker/Task_30# nano Dockerfile
root@AjinkyaPame:~/Docker/Task_30# cat Dockerfile
#Base image: Ubuntu
FROM ubuntu:latest
#Install packages: curl, vim, and git
RUN apt update && apt install curl vim git -y

#Set an environment variable: MY_NAME=Your_Name
ENV MY_NAME=Ajinkya
root@AjinkyaPame:~/Docker/Task_30# docker build -t custom_ubuntu .
[+] Building 21.6s (6/6) FINISHED                               docker:default
=> [internal] load build definition from Dockerfile          0.0s
=> => transferring dockerfile: 231B                          0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.8s
=> [internal] load .dockerignore                            0.0s
=> => transferring context: 2B                           0.0s
=> CACHED [1/2] FROM docker.io/library/ubuntu:latest@sha256:66460d55 0.0s
=> [2/2] RUN apt update && apt install curl vim git -y      19.9s
=> exporting to image                                      0.9s
=> => exporting layers                                     0.8s
=> => writing image sha256:f144fc7da5942e743b1deea464f56d9c29356d911 0.0s
=> => naming to docker.io/library/custom_ubuntu           0.0s
root@AjinkyaPame:~/Docker/Task_30# docker images | grep ubuntu
custom_ubuntu          latest    f144fc7da594   19 seconds ago   289MB
root@AjinkyaPame:~/Docker/Task_30# |
```

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

```
root@AjinkyaPame:~/Docker# mkdir DHUB AWSECR
root@AjinkyaPame:~/Docker# ll
total 150168
drwxr-xr-x  7 root root      4096 Nov  6 10:11 .
drwxr----- 16 root root      4096 Nov  6 09:37 ..
drwxr-xr-x  2 root root      4096 Nov  6 10:11 AWSECR/
drwxr-xr-x  2 root root      4096 Nov  6 10:11 DHUB/
```

**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@AjinkyaPame:~/Docker# cd AWSECR/
root@AjinkyaPame:~/Docker/AWSECR# nano Dockerfile
root@AjinkyaPame:~/Docker/AWSECR# cat Dockerfile
# Base image: Ubuntu
FROM ubuntu:latest
# Install packages: httpd
RUN apt update && apt install apache2 -y
# Add "I am from AWS ECR" to the index.html file for AWS ECR directory.
RUN echo "I am from AWS ECR." > index.html
# Set environment variable ENV_NAME=AWSECR for the AWS ECR directory.
ENV ENV_NAME=AWSECR
# Start http service using ENTRYPOINT
# Expose port 80.
EXPOSE 80
ENTRYPOINT ["apache2ctl", "-D", "FOREGROUND"]
```

```
root@AjinkyaPame:~/Docker/AWSECR# cat ../DHUB/Dockerfile
# Base image: Ubuntu
FROM ubuntu:latest
# Install packages: httpd
RUN apt update && apt install apache2 -y
# Add "I am from Docker Hub" to the index.html file for DHUB directory.
RUN echo "I am from Docker Hub." > index.html
# Set environment variable ENV_NAME=DHUB for the DHUB directory.
ENV ENV_NAME=DHUB
# Start http service using ENTRYPOINT
# Expose port 80.
EXPOSE 80
ENTRYPOINT ["apache2ctl", "-D", "FOREGROUND"]
root@AjinkyaPame:~/Docker/AWSECR#
```

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

```

root@AjinkyaPame:~/Docker/AWSECR# docker build -t ubuntu_ecr .
[*] Building 21.9s (8/8) FINISHED
=> [internal] Load build definition from Dockerfile
=> => transferring dockerfile: 463B
=> [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
=> CACHED [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
=> [2/3] RUN apt update && apt install apache2 -y
=> [3/3] RUN echo "I am from AWS ECR." > index.html
=> exporting to image
=> exporting layers
=> => writing image sha256:35b6b06b2eb1led6981909fc6585303ea2836627b095b8191691968e7f4f208c
=> => naming to docker.io/library/ubuntu_ecr
root@AjinkyaPame:~/Docker/DHUB# cd ../DHUB/
root@AjinkyaPame:~/Docker/DHUB# docker build -t ubuntu_dhub .
[*] Building 1.1s (7/7) FINISHED
=> [internal] Load build definition from Dockerfile
=> => transferring dockerfile: 459B
=> [internal] Load metadata for docker.io/library/ubuntu:latest
=> [internal] Load .dockerignore
=> => transferring context: 2B
=> [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
=> CACHED [2/3] RUN apt update && apt install apache2 -y
=> [3/3] RUN echo "I am from Docker Hub." > index.html
=> exporting to image
=> exporting layers
=> => writing image sha256:1387f67fe09582aaa34dd64809d4e20eb97d9bc6009b9bf1e87012f7d3da
=> => naming to docker.io/library/ubuntu_dhub
root@AjinkyaPame:~/Docker/DHUB# docker image ls | grep ubuntu
ubuntu_dhub                         latest      1387f67fe095   12 seconds ago  241MB
ubuntu_ecr                          latest      35b6b06b2eb1   33 seconds ago  241MB
custom_ubuntu                        latest      +f144c7da594   35 minutes ago  289MB
root@AjinkyaPame:~/Docker/DHUB# 

root@AjinkyaPame:~/Docker/DHUB# cd ../../AWSECR/
root@AjinkyaPame:~/Docker/AWSECR# aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/b0r7d3x2
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@AjinkyaPame:~/Docker/AWSECR# docker build -t ajinkyap009/apache2_ecr .
[*] Building 1.9s (8/8) FINISHED
=> [internal] Load build definition from Dockerfile
=> => transferring dockerfile: 463B
=> [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
=> [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
=> CACHED [2/3] RUN apt update && apt install apache2 -y
=> [3/3] RUN echo "I am from AWS ECR." > index.html
=> exporting to image
=> exporting layers
=> => writing image sha256:35b6b06b2eb1led6981909fc6585303ea2836627b095b8191691968e7f4f208c
=> => naming to docker.io/ajinkyap009/apache2_ecr
root@AjinkyaPame:~/Docker/AWSECR# docker image ls | grep apache
ajinkyap009/apache2_dhub              v1          1387f67fe095   17 minutes ago  241MB
ajinkyap009/apache2_ecr              latest      35b6b06b2eb1   18 minutes ago  241MB

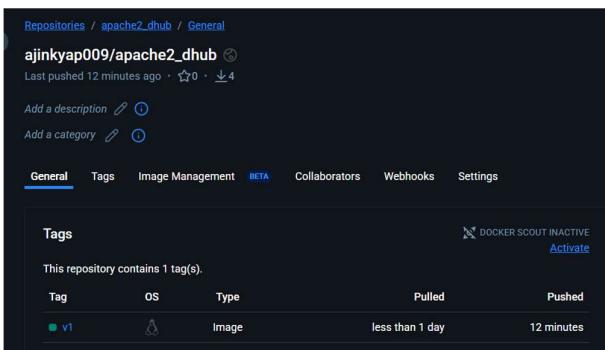
```

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

```

root@AjinkyaPame:~/Docker/DHUB# docker push ajinkyap009/apache2_dhub:v1
The push refers to repository [docker.io/ajinkyap009/apache2_dhub]
9bfd664d8a92: Pushed
387175af7fe4: Pushed
073ec47a8c22: Mounted from library/ubuntu
v1: digest: sha256:c2ccc5be663c4bf01faf3ecbf05fb87e3803b478d1d6d402f9c760e7bbadc67 size: 948

```



```

root@Ajinkyapame:~/Docker/AWSECR# docker tag ajinkyap009/apache2_ecr:latest public.ecr.aws/b0r7d3x2/ajinkyap009/apache2_ecr:latest
root@Ajinkyapame:~/Docker/AWSECR# docker image ls | grep apache
ajinkyap009/apache2_dhub          v1           1387f67fe095   18 minutes ago   241MB
ajinkyap009/apache2_ecr          latest       35b6b06b2eb1   18 minutes ago   241MB
public.ecr.aws/b0r7d3x2/apache2_ecr latest       35b6b06b2eb1   18 minutes ago   241MB
root@Ajinkyapame:~/Docker/AWSECR# docker push public.ecr.aws/b0r7d3x2/ajinkyap009/apache2_ecr:latest
The push refers to repository [public.ecr.aws/b0r7d3x2/ajinkyap009/apache2_ecr]
f651a327132d: Pushed
387175af7fe4: Pushed
073ec47a8c22: Pushed
latest: digest: sha256:ff19f3816ffa0624b9061adb9e2a545f93d60b041cb9c9cf1ccbf15d7856feb2 size: 948
root@Ajinkyapame:~/Docker/AWSECR# |

```

The screenshot shows the AWS Lambda function configuration page. The left sidebar has sections for 'Amazon Elastic Container Registry' (Private registry and Public registry), 'AWS Lambda' (Functions, Triggers, Versions, Layers, Policies, and Metrics), and 'Logs'. The main content area is titled 'Function configuration' for the function 'aapame'. It shows the 'Code' tab selected, with the code editor containing the provided Python code. The 'Environment' tab is also visible.

## 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
```

```

root@Ajinkyapame:~/Docker/AWSECR# docker run -d -p 8081:80 --name I_AM_FROM_DHUB ajinkyap009/apache2_dhub:v1
d871139d4d5e8ad40ce9c991b27c976db85f6e04b3035244ce3bdf6a63ba525
root@Ajinkyapame:~/Docker/AWSECR# docker run -d -p 8082:80 --name I_AM_FROM_ECR ajinkyap009/apache2_ecr:latest
3048d3970b456e6b1acc55cf96f2f6ea89b51ed86ce25757495ac97724da30f
root@Ajinkyapame:~/Docker/AWSECR# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3048d3970b45 ajinkyap009/apache2_ecr:latest "apache2ctl -D FOREG..." 2 seconds ago Up 2 seconds 0.0.0.0:8082->80/tcp, [::]:8082->80/tcp I_AM_FRO_M_ECR
d871139d4d5e ajinkyap009/apache2_dhub:v1 "apache2ctl -D FOREG..." 22 seconds ago Up 21 seconds 0.0.0.0:8081->80/tcp, [::]:8081->80/tcp I_AM_FRO_M_DHUB
e60f34e69503 release-branch-img "/docker-entrypoint..." 3 hours ago Up 3 hours 0.0.0.0:8383->80/tcp, [::]:8383->80/tcp release-nginx
e6c67bbc0797 ajinkyap009/custom-nginx:01 "/docker-entrypoint..." 4 hours ago Up 4 hours 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp custom-nginx-cont
root@Ajinkyapame:~/Docker/AWSECR# |

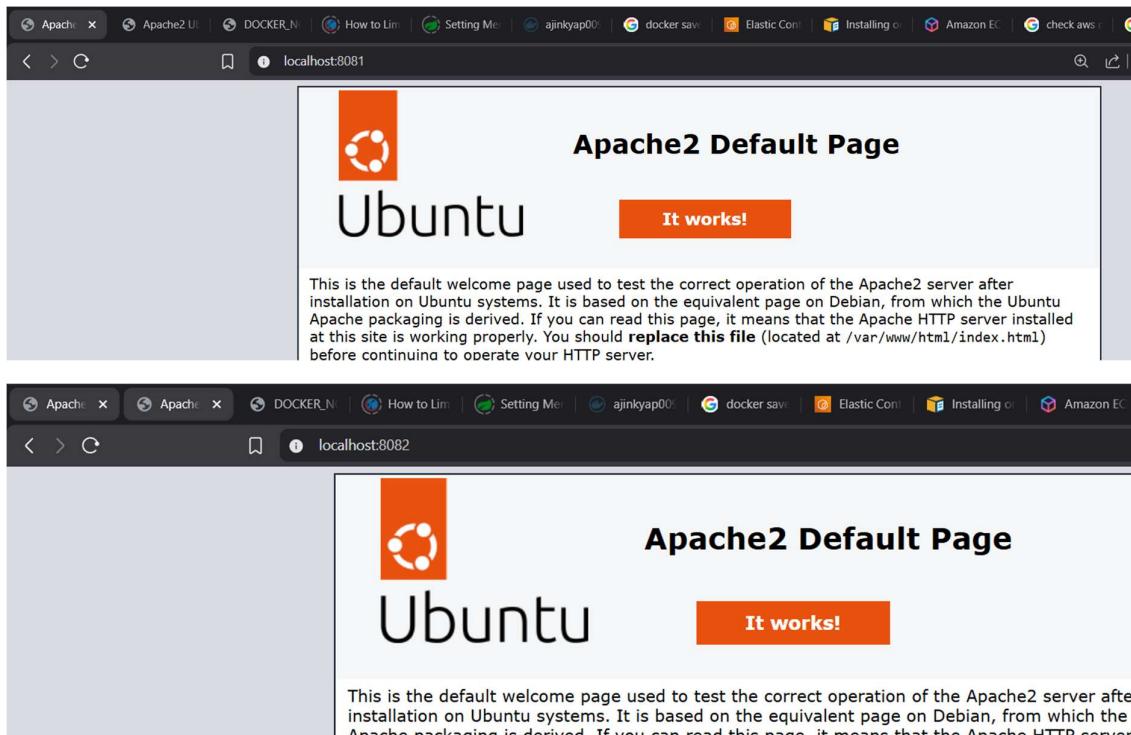
```

### 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>



### Changing Dockerfile to use our index.html file:

```
root@AjinkyaPame:~/Docker# cat AWSECR/Dockerfile
# Base image: Ubuntu
FROM ubuntu:latest
# Install packages: httpd
RUN apt update && apt install apache2 -y
# Add "I am from AWS ECR" to the index.html file for AWS ECR directory.
RUN echo "I am from AWS ECR." > /var/www/html/index.html
# Set environment variable ENV_NAME=AWSECR for the AWS ECR directory.
ENV ENV_NAME=AWSECR
# Start http service using ENTRYPOINT
# Expose port 80.
EXPOSE 80
ENTRYPOINT ["apache2ctl", "-D", "FOREGROUND"]
```

```

root@AjinkyaPame:~/Docker# cat DHUB/Dockerfile
# Base image: Ubuntu
FROM ubuntu:latest
# Install packages: httpd
RUN apt update && apt install apache2 -y
# Add "I am from Docker Hub" to the index.html file for DHUB directory.
RUN echo "I am from Docker Hub." > /var/www/html/index.html
# Set environment variable ENV_NAME=DHUB for the DHUB directory.
ENV ENV_NAME=DHUB
# Start http service using ENTRYPOINT
# Expose port 80.
EXPOSE 80
ENTRYPOINT ["apache2ctl", "-D", "FOREGROUND"]
root@AjinkyaPame:~/Docker#
root@AjinkyaPame:~/Docker# cd DHUB/

```

```

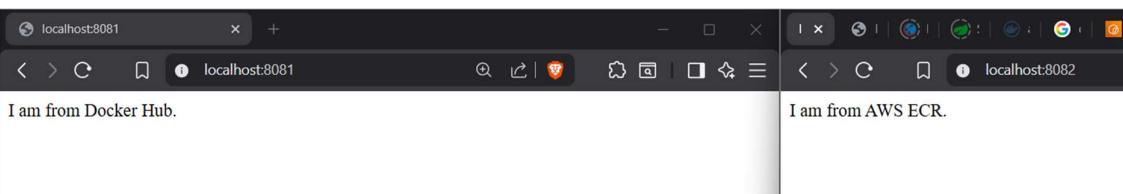
root@AjinkyaPame:~/Docker/DHUB# docker build -t apache2_dhub:v2 .
[+] Building 2.2s (8/8) FINISHED
--> [internal] load build definition from Dockerfile
--> [internal] load metadata for docker.io/library/ubuntu:latest
--> [auth] library/ubuntu:pull token for registry-1.docker.io
--> [internal] load .dockerignore
--> transferring context: 2B
--> [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
--> CACHED [2/3] RUN apt update && apt install apache2 -y
--> [3/3] RUN echo "I am from Docker Hub." > /var/www/html/index.html
--> exporting to image
--> exporting layers
--> writing image sha256:dc485665cee3fa0991345f758121c02d43ba0774a5dba4e974260ddfc9479ff2f
--> naming to docker.io/library/apache2_dhub:v2
root@AjinkyaPame:~/Docker/DHUB# cd ..../AWSERCR
root@AjinkyaPame:~/Docker/AWSERCR# docker build -t apache2_ecr:v2 .
[+] Building 0.6s (7/7) FINISHED
--> [internal] load build definition from Dockerfile
--> [internal] load metadata for docker.io/library/ubuntu:latest
--> [internal] load .dockerignore
--> transferring context: 2B
--> [1/3] FROM docker.io/library/ubuntu:latest@sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
--> CACHED [2/3] RUN apt update && apt install apache2 -y
--> [3/3] RUN echo "I am from AWS ECR." > /var/www/html/index.html
--> exporting to image
--> exporting layers
--> writing image sha256:1a8bb797c49e90da0bb332df44d9b2e13c1fa39131bb82a9b33f50410af74a49
--> naming to docker.io/library/apache2_ecr:v2
root@AjinkyaPame:~/Docker/AWSERCR#

```

```

root@AjinkyaPame:~/Docker/AWSERCR# docker run -d -p 8081:80 --name I_AM_FROM_DHUB apache2_dhub:v2
5bfd95ef67a:f57ef955cbcddff1d44ae194cca4db942fe30a37c91bab63ec6
root@AjinkyaPame:~/Docker/AWSERCR# docker run -d -p 8082:80 --name I_AM_FROM_ECR apache2_ecr:v2
dce87d275387a7afa3691349b6b63fc73591ecfa2ced7de7bc55dd32b0cf609
root@AjinkyaPame:~/Docker/AWSERCR# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
dce87d275387 apache2_ecr:v2 "apache2ctl -D FOREG..." 2 seconds ago Up 2 seconds 0.0.0.0:8082->80/tcp, [::]:8082->80/tcp I_AM_FROM_E
CR
5bfd95ef67af apache2_dhub:v2 "apache2ctl -D FOREG..." 48 seconds ago Up 47 seconds 0.0.0.0:8081->80/tcp, [::]:8081->80/tcp I_AM_FROM_D
HUB
e60f34ee69503 release-branch-img "/docker-entrypoint..." 4 hours ago Up 4 hours 0.0.0.0:8383->80/tcp, [::]:8383->80/tcp release-nginx
nx
e6c67bbc0797 ajinkyap009/custom-nginx:01 "/docker-entrypoint..." 4 hours ago Up 4 hours 0.0.0.0:8080->80/tcp, [::]:8080->80/tcp custom-nginx
x-cont
root@AjinkyaPame:~/Docker/AWSERCR |

```



Images (2)						
	Image tag	Artifact type	Pushed at	Size (MB)	Image URI	Digest
<input type="checkbox"/>	v2	Image	November 06, 2025, 16:53:46 (UTC+05.5)	104.90	<input type="button"/> Copy URI	<input type="button"/> sha256:d336ae61d86151...
<input type="checkbox"/>	latest	Image	November 06, 2025, 16:33:01 (UTC+05.5)	104.90	<input type="button"/> Copy URI	<input type="button"/> sha256:ff19f3816ffa0624...

**ajinkyap009/apache2\_dhub**

Last pushed 1 minute ago · Repository size: 99.2 MB · 0 · 8

Add a description

Add a category

General Tags Image Management BETA Collaborators Webhooks Settings

**Tags**

DOCKER SCOUT INACTIVE [Activate](#)

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
v2		Image	less than 1 day	1 minute
v1		Image	less than 1 day	38 minutes

**37. 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@AjinkyaPame:~/Docker/Task_37# cat Dockerfile
FROM ubuntu
RUN apt update && apt install vim curl git -y
ENV MY_NAME=Ajinkya
EXPOSE 80

root@AjinkyaPame:~/Docker/Task_37# docker build -t custom_ubuntu .
[+] Building 26.6s (6/6) FINISHED                               docker:default
=> [internal] load build definition from Dockerfile           0.0s
=> => transferring dockerfile: 126B                           0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.0s
=> [internal] load .dockerignore                            0.0s
=> => transferring context: 2B                             0.0s
=> CACHED [1/2] FROM docker.io/library/ubuntu:latest        0.0s
=> [2/2] RUN apt update && apt install vim curl git -y      25.7s
=> exporting to image                                         0.9s
=> => exporting layers                                       0.9s
=> => writing image sha256:509d4459352135f1279859d10a32a8256bfb5bff2 0.0s
=> => naming to docker.io/library/custom_ubuntu             0.0s
```

```
root@AjinkyaPame:~/Docker/Task_37# docker image ls
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
custom_ubuntu        latest   509d44593521  44 seconds ago  289MB
```

**38. Docker networking:** Create two Docker containers with different names, and add them to the same custom network. Verify that the containers can communicate with each other using their names as hostnames.

```
root@AjinkyaPame:~/Docker# docker network create --driver=bridge custom_network
bc09284221a2252fe26948dd029c4337efb5248bdf82a452a4f13c868e699797
root@AjinkyaPame:~/Docker# docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
100382874b42    bridge    bridge      local
bc09284221a2    custom_network    bridge      local
```

```
root@AjinkyaPame:~/Docker# docker container run -dit --name nginx_cont_1 --network custom_network nginx:latest
9954d32547bf8b3c26b40eb5e76020ebc11d4b555df3bec6ddccdf22bf2733
root@AjinkyaPame:~/Docker# docker container run -dit --name nginx_cont_2 --n
etwork custom_network nginx:latest
c853a66fc0fa61306ea2b5b7511bef6e006b827b26e1f3bdd26583c36601ae0f
```

```
root@AjinkyaPame:~/Docker# docker container exec -it nginx_cont_1 /bin/bash
root@9954d32547bf:/# hostname
9954d32547bf
root@9954d32547bf:/# hostname -I
172.19.0.2
root@9954d32547bf:/# curl 172.19.0.3
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>. <br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```