docker ps

docker ps -a

docker pull alpine

docker start -a 4dd3a237d61f

/ # ls

**app** **dev** **home** **media** **opt** **root** **sbin** **sys** **usr**

**bin** **etc** **lib** **mnt** **proc** **run** **srv** **tmp** **var**

/ # mkdir app

/ # cd app

/ app # ls

/app # cat Prabhat.text

Create a applicationfile in this case it’s a text file which has text but usually it has a piece of code, that’s does some work or task.

**Create a Simple Dockerfile**

1. Create a Project Directory

mkdir docker-practice && cd docker-practise

1. Create a Dockerfile

Touch Dockerfile

1. Write a content inside the Dockerfile.

# Use an official base image

FROM alpine:latest

# Set the working directory

WORKDIR /usr/src/app

# Copy the file into the container

COPY applicationfile.txt .

# Set the default command

CMD ["cat", "applicationfile.txt"]

1. Build the Docker Image

docker-practice % docker build .

docker build -t coco:latest .

1. Run the Docker Container

docker run coco:latest

1. Push the Image to Docker Hub

docker push ktgattu/coco:latest

1. Pull the Docker Image from Docker Hub

docker pull ktgattu/coco:latest

1. Run the Pulled Image

docker run coco:latest

sruthigattu@Sruthis-MacBook-Pro ~ % mkdir dockerpday2 && cd dockerpday2

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % touch Dockerfile

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % nano Dockerfile

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % touch myapp.text

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker build -t cookie:latest .

[+] Building 0.1s (7/7) FINISHED docker:desktop-linux

=> [internal] load build definition from Dockerfile 0.0s

=> => transferring dockerfile: 290B 0.0s

=> [internal] load metadata for docker.io/library/alpine:latest 0.0s

=> [internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

=> CANCELED [1/3] FROM docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde36d 0.0s

=> => resolve docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde36db9db0b524 0.0s

=> [internal] load build context 0.0s

=> => transferring context: 2B 0.0s

=> CACHED [2/3] WORKDIR /usr/src/app 0.0s

=> ERROR [3/3] COPY myapp.txt . 0.0s

------

> [3/3] COPY myapp.txt .:

------

Dockerfile:8

--------------------

6 |

7 | # Copy the file into the container

8 | >>> COPY myapp.txt .

9 |

10 | # Set the default command

--------------------

ERROR: failed to solve: failed to compute cache key: failed to calculate checksum of ref vyad60iavpvf2dnt6epmlboal::3q7k5e8pkexoff6s7fqe4k3b6: "/myapp.txt": not found

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker build -t cookie:latest .

[+] Building 1.1s (9/9) FINISHED docker:desktop-linux

=> [internal] load build definition from Dockerfile 0.0s

=> => transferring dockerfile: 290B 0.0s

=> [internal] load metadata for docker.io/library/alpine:latest 0.0s

=> [internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

=> [1/3] FROM docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde36db9db0b524 1.0s

=> => resolve docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde36db9db0b524 1.0s

=> [internal] load build context 0.0s

=> => transferring context: 287B 0.0s

=> [auth] library/alpine:pull token for registry-1.docker.io 0.0s

=> CACHED [2/3] WORKDIR /usr/src/app 0.0s

=> [3/3] COPY myapp.txt . 0.0s

=> exporting to image 0.1s

=> => exporting layers 0.0s

=> => exporting manifest sha256:8b1bf1020801f6dcc3b3569c44598dbccc23a7ea8923ede3a401ef001 0.0s

=> => exporting config sha256:4004145531076c93381e4ae80242ae1b6b7e46ed57dee3ce4b7586d1461 0.0s

=> => exporting attestation manifest sha256:13fefcf6bf3e762326a2522b41bfee0556cfc609472c6 0.0s

=> => exporting manifest list sha256:dca450c4d3296c2eff9d81225ee4bf347c38c001045b40dd5c75 0.0s

=> => naming to docker.io/library/cookie:latest 0.0s

=> => unpacking to docker.io/library/cookie:latest 0.0s

**What's next:**

View a summary of image vulnerabilities and recommendations → docker scout quickview

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker run cookie:latest

Welcome to MyApp!

This is a sample Docker application that demonstrates basic Docker commands.

You can build, run, and explore Docker containers with this application.

Enjoy experimenting with Docker!

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

cookie latest c0dcd617cfa8 19 seconds ago 13.6MB

coco latest d8a661b28b09 4 hours ago 13.6MB

new-repo coco 88fcfc4441a4 19 hours ago 13.6MB

ktgattu/coco latest bb55c5ee11e4 19 hours ago 13.6MB

<none> <none> 33a0175d0249 19 hours ago 13.6MB

nginx latest d2eb56950b84 2 weeks ago 281MB

jenkins/jenkins latest 0c035846ccc5 2 weeks ago 816MB

mongo latest 0c17421487ae 4 weeks ago 1.12GB

ubuntu 20.04 6d8d9799fe6a 4 weeks ago 101MB

ubuntu 24.04 b359f1067efa 4 weeks ago 139MB

ubuntu latest b359f1067efa 4 weeks ago 139MB

alpine latest beefdbd8a1da 6 weeks ago 13.6MB

confluentinc/cp-kafka latest 653f49c51cfe 6 weeks ago 1.43GB

redis latest 6725a7dc7a44 2 months ago 196MB

hello-world latest 91fb4b041da2 17 months ago 21kB

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker login

Authenticating with existing credentials...

Login Succeeded

////////;;;;;;;;;;;;;;;; **4. Tag the Image Explicitly (if needed)**

If the image was built without the correct tag, you can tag it explicitly with:

bash

Copy code

docker tag <image\_id> ktgattu/cookie:latest

//////////;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker tag 002a2ccf7fe6 ktgattu/cookie:latest

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker push ktgattu/cookie:latest

The push refers to repository [docker.io/ktgattu/cookie]

2b9259a0e594: Pushed

2fc87c58a557: Pushed

cf04c63912e1: Mounted from ktgattu/coco

fe75132fc678: Pushed

latest: digest: sha256:002a2ccf7fe6a5ca32e243df115dfa792028e9346048c29cc0c98e83552e36c9 size: 855

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker pull ktgattu/cookie:latest

latest: Pulling from ktgattu/cookie

Digest: sha256:002a2ccf7fe6a5ca32e243df115dfa792028e9346048c29cc0c98e83552e36c9

Status: Image is up to date for ktgattu/cookie:latest

docker.io/ktgattu/cookie:latest

**What's next:**

View a summary of image vulnerabilities and recommendations → docker scout quickview ktgattu/cookie:latest

sruthigattu@Sruthis-MacBook-Pro dockerpday2 % docker run cookie:latest

Welcome to MyApp!

This is a sample Docker application that demonstrates basic Docker commands.

You can build, run, and explore Docker containers with this application.

Enjoy experimenting with Docker!

sruthigattu@Sruthis-MacBook-Pro dockerpday2 %