

```
ubuntu@ip-172-31-33-36: ~$ cd /home/ubuntu/app
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ ls
Dockerfile
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ pwd
/home/ubuntu/app
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ mv /home/ubuntu/app/Dockerfile* .
mv: cannot move '/home/ubuntu/app/Dockerfile' to './Dockerfile': Permission denied
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ mv /home/ubuntu/app/Dockerfile* /home/ubuntu/
mv: cannot move '/home/ubuntu/app/Dockerfile' to '/home/ubuntu/Dockerfile': Permission denied
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ rm Dockerfile
rm: remove write-protected regular file 'Dockerfile'? yes
rm: cannot remove 'Dockerfile': Permission denied
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ sudo rm Dockerfile
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ ls
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ cd
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ sudo nano Dockerfile
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ docker buildx build -t docker.io/venkatesh1503/myapp1:latest .
[+] Building 17.2s (8/8) FINISHED
=> [internal] load build definition from Dockerfile                                0.0s
=> => transferring dockerfile: 207B                                              0.0s
=> [internal] load metadata for docker.io/library/ubuntu:20.04                  0.0s
=> [internal] load .dockerignore                                                  0.0s
=> => transferring context: 2B                                                    0.0s
=> CACHED [1/3] FROM docker.io/library/ubuntu:20.04                             0.0s
=> [2/3] RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/* 16.1s
=> [internal] load build context                                                 0.1s
=> => transferring context: 25B                                                  0.0s
=> [3/3] COPY app /var/www/html                                                 0.1s
=> exporting to image                                                           1.0s
=> => exporting layers                                                            0.9s
=> => writing image sha256:3ef5a8b546b232ff7eaab1189edf6cbf236c165b566d979d341791e5429d9a9e 0.0s
=> => naming to docker.io/venkatesh1503/myapp1:latest                          0.0s
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
venkatesh1503/myapp1 latest      3ef5a8b546b2  17 seconds ago 186MB
ubuntu              20.04      9522b5ff29b8  3 weeks ago   72.8MB
ubuntu@ip-172-31-33-36: /home/ubuntu/app$
```

```
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                    0.0s
=> CACHED [1/3] FROM docker.io/library/ubuntu:20.04            0.0s
=> [2/3] RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/* 16.1s
=> [internal] load build context                                 0.1s
=> => transferring context: 25B                                   0.0s
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ubuntu@ip-172-31-33-36: /home/ubuntu/app$ docker login

USING WEB-BASED LOGIN
To sign in with credentials on the command line, use 'docker login -u <username>'

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

Waiting for authentication in the browser...

*Login canceled
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ docker login -u venkatesh1503
Password:
WARNING! Your password will be stored unencrypted in /home/ubuntu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores

Login Succeeded
ubuntu@ip-172-31-33-36: /home/ubuntu/app$ docker push venkatesh1503/myapp1
Using default tag: latest
The push refers to repository [docker.io/venkatesh1503/myapp1]
0854ef9c7255: Pushed
a85af04f4d61: Pushed
20eafb43e177: Mounted from library/ubuntu
latest: digest: sha256:22cc14046ba857f6e776883195f2924d7db6954d96c1472bc29fb5a764091f23 size: 948
ubuntu@ip-172-31-33-36: /home/ubuntu/app$
```

https://hub.docker.com

venkatesh1503 Search by repository name All Content Create repository

venkatesh1503 / myapp1  
Contains: Image • Last pushed: less than a minute ago

venkatesh1503 / assignment3-image  
Contains: Image • Last pushed: 9 days ago

venkatesh1503 / ubuntu  
Contains: No content • Created: 9 days ago

Create An Organization  
Create and manage users and grant access to your repositories.

ubuntu@ip-172-31-33-36:~\$ docker image ls

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
venkatesh1503/myapp1	latest	3ef5a8b546b2	17 seconds ago	186MB
ubuntu	20.04	9522b5ff29b8	3 weeks ago	72.8MB

ubuntu@ip-172-31-33-36:~\$ docker login

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ubuntu@ip-172-31-33-36:~\$ docker login -u venkatesh1503

Password:

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Login Succeeded

ubuntu@ip-172-31-33-36:~\$ docker push venkatesh1503/myapp1

Using default tag: latest

The push refers to repository [docker.io/venkatesh1503/myapp1]

0854ef9e7255: Pushed  
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latest: digest: sha256:22cc14046ba857f6e776883195f2924d7db6954d96c1472bc29fb5a764091f23 size: 948

ubuntu@ip-172-31-33-36:~\$

**Commands:**

```
sudo apt-get update -y
```

```
sudo apt-get update -y
```

```
clear
```

```
sudo wget https://raw.githubusercontent.com/lerndevops/labs/master/scripts/installDocker.sh -P /tmp
```

```
sudo chmod 755 /tmp/installDocker.sh
```

```
sudo bash /tmp/installDocker.sh
```

```
docker --version
```

```
sudo usermod -aG docker devops
```

```
sudo usermod -aG docker ubuntu
```

```
exit
```

```
clear
```

```
docker version
```

```
clear
```

```
docker pull ubuntu:20.04
```

```
sudo mkdir app
```

```
sudo nano Dockerfile
```

```
docker buildx build -t docker.io/venkatesh1503/myapp1:latest .
```

```
docker image ls
```

```
docker login
```

```
docker login -u venkatesh1503
```

```
docker push venkatesh1503/myapp1
```

```
history
```

## Dockerfile

```
# Use the official Ubuntu base image
FROM ubuntu:20.04

# Set environment variables to avoid interactive prompts during
installation
ENV DEBIAN_FRONTEND=noninteractive

# Update the package repository and install Apache
RUN apt-get update && \
    apt-get install -y apache2 && \
    apt-get clean && \
    rm -rf /var/lib/apt/lists/*

# Copy the application code into the container
# Assuming the code is located in a directory named 'app' in the same
path as the Dockerfile
COPY app /var/www/html

# Expose port 80 for the web server
EXPOSE 80

# Start Apache in the foreground
CMD ["apachectl", "-D", "FOREGROUND"]
```