

Prac-02

Demonstrate how to build a Docker image using Ubuntu and execute an echo command when the container runs

```
PS C:\Users\narut> cd dockerfile_prac1
PS C:\Users\narut\dockerfile_prac1> notepad dockerfile
PS C:\Users\narut\dockerfile_prac1> ren dockerfile.txt dockerfile
```

Step1: Create a directory

Step2: Create a file named as dockerfile using notepad/nano

Step3: Paste the content given below

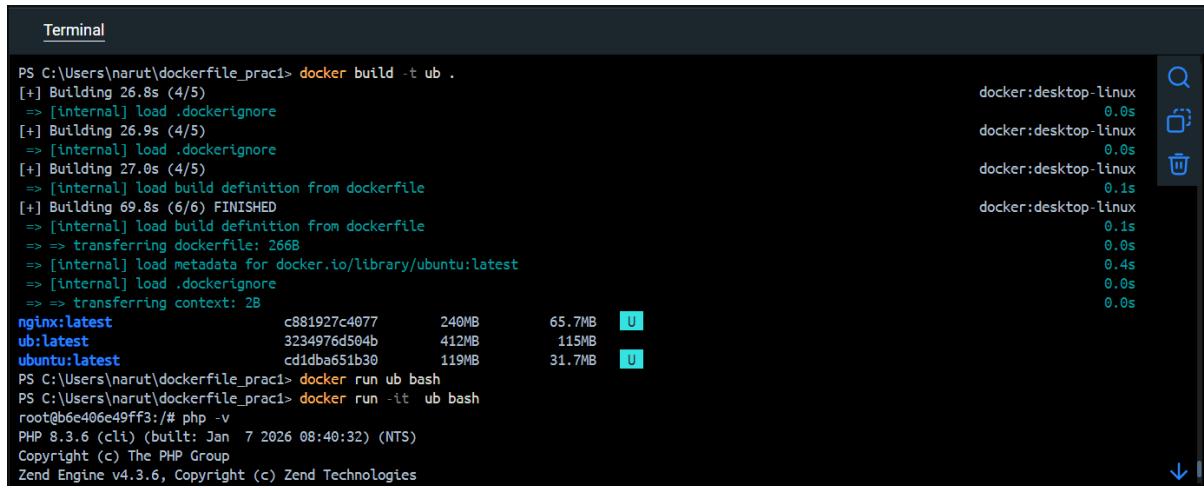
```
# Base image
FROM ubuntu:latest

# Metadata
LABEL maintainer="Student Demo"

# Avoid interactive prompts
ENV DEBIAN_FRONTEND=noninteractive

# Install required packages
RUN apt update && apt install -y php nano && rm -rf /var/lib/apt/lists/*
# Print message when container runs
CMD ["echo", "Hello Students"]
```

Step4: Rename the txt the file in dockerfile



The screenshot shows a terminal window with the following content:

```
Terminal
PS C:\Users\narut\dockerfile_prac1> docker build -t ub .
[+] Building 26.8s (4/5)
=> [internal] load .dockerignore
[+] Building 26.9s (4/5)
=> [internal] load .dockerignore
[+] Building 27.0s (4/5)
=> [internal] load build definition from dockerfile
[+] Building 69.8s (6/6) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 266B
=> [internal] load metadata for docker.io/library/ubuntu:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
nginx:latest          c891927c4077    240MB     65.7MB  U
ub:latest              3234976d504b    412MB     115MB   U
ubuntu:latest          cd1db4651b30    119MB     31.7MB  U
PS C:\Users\narut\dockerfile_prac1> docker run ub bash
PS C:\Users\narut\dockerfile_prac1> docker run -it ub bash
root@b6e406e49ff3:/# php -v
PHP 8.3.6 (cli) (built: Jan  7 2026 08:40:32) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.3.6, Copyright (c) Zend Technologies
```

A sidebar on the right lists Docker images with their names, sizes, and status (U). The images listed are:

- docker:desktop-linux 0.0s
- docker:desktop-linux 0.0s
- docker:desktop-linux 0.1s
- docker:desktop-linux 0.0s
- docker:desktop-linux 0.4s
- docker:desktop-linux 0.0s
- 0.0s

Step5: Build the image

Step6: Get inside the container

Step7: Verify the php installation