

The list of available updates is more than a week old.
To check for new updates run: `sudo apt update`

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "`sudo <command>`".
See "`man sudo_root`" for details.

```
ubuntu@ip-172-31-85-113:~$ mkdir docker
ubuntu@ip-172-31-85-113:~$ cd docker
ubuntu@ip-172-31-85-113:~/docker$ sudo su
root@ip-172-31-85-113:/home/ubuntu/docker# nano Dockerfile
root@ip-172-31-85-113:/home/ubuntu/docker# cat Dockerfile
# Use the official Ubuntu image
FROM ubuntu:latest
```

```
# Update package lists and install Apache2
RUN apt update && apt install -y apache2
```

```
# Ensure Apache2 runs in the foreground
CMD ["apachectl", "-D", "FOREGROUND"]
```

```
# Expose port 80
EXPOSE 80
```

```
root@ip-172-31-85-113:/home/ubuntu/docker# docker build -t myapache .
Command 'docker' not found, but can be installed with:
apt install docker.io      # version 24.0.7-0ubuntu2~22.04.1, or
apt install podman-docker  # version 3.4.4+ds1-1ubuntu1.22.04.2
root@ip-172-31-85-113:/home/ubuntu/docker#
```

```
root@ip-172-31-85-113:/home/ubuntu/docker# sudo systemctl start docker
sudo systemctl enable docker
root@ip-172-31-85-113:/home/ubuntu/docker# sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2025-02-04 09:18:16 UTC; 44s ago
 TriggeredBy: ● docker.socket
    Docs: https://docs.docker.com
   Main PID: 7757 (dockerd)
     Tasks: 9
    Memory: 39.4M
       CPU: 249ms
    CGroup: /system.slice/docker.service
            └─7757 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Feb 04 09:18:15 ip-172-31-85-113 systemd[1]: Starting Docker Application Container Engine...
Feb 04 09:18:15 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:15.874756186Z" level=info msg="Starting
Feb 04 09:18:15 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:15.875855154Z" level=info msg="detected
Feb 04 09:18:16 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:16.085763685Z" level=info msg="Loading
Feb 04 09:18:16 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:16.333204919Z" level=info msg="Loading
Feb 04 09:18:16 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:16.352486042Z" level=info msg="Docker d
Feb 04 09:18:16 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:16.352552718Z" level=info msg="Daemon h
Feb 04 09:18:16 ip-172-31-85-113 dockerd[7757]: time="2025-02-04T09:18:16.405833123Z" level=info msg="API list
Feb 04 09:18:16 ip-172-31-85-113 systemd[1]: Started Docker Application Container Engine.
lines 1-21/21 (END)
```

```
root@ip-172-31-85-113:/home/ubuntu/docker# docker build -t myapache .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  2.048kB
Step 1/4 : FROM ubuntu:latest
--> a04dc4851cbc
Step 2/4 : RUN apt update && apt install -y apache2
--> Using cache
--> 1a2898b21d0b
Step 3/4 : CMD ["apachectl", "-D", "FOREGROUND"]
--> Using cache
--> 3d83ea8a37ed
Step 4/4 : EXPOSE 80
--> Using cache
--> 1fd3ac85f855
Successfully built 1fd3ac85f855
Successfully tagged myapache:latest
root@ip-172-31-85-113:/home/ubuntu/docker#
```

```
Successfully built 1fd3ac85f855
Successfully tagged myapache:latest
root@ip-172-31-85-113:/home/ubuntu/docker# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
myapache	latest	1fd3ac85f855	4 minutes ago	238MB
mywebapp	latest	1fd3ac85f855	4 minutes ago	238MB
ubuntu	latest	a04dc4851cbc	8 days ago	78.1MB

```
root@ip-172-31-85-113:/home/ubuntu/docker#
```

```

root@ip-172-31-85-113:/home/ubuntu/docker# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
myapache latest 1fd3ac85f855 4 minutes ago 238MB
mywebapp latest 1fd3ac85f855 4 minutes ago 238MB
ubuntu latest a04dc4851cbc 8 days ago 78.1MB
root@ip-172-31-85-113:/home/ubuntu/docker# docker run -dit --name myapache-container -p 80:80 myapache
1aeaaa23a60e3b6851e1271fd00338cf415e2a6017a7643839948b4336fd342b
root@ip-172-31-85-113:/home/ubuntu/docker# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
1aeaaa23a60e myapache "apachectl -D FOREGR..." 17 seconds ago Up 15 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp myapache-container
root@ip-172-31-85-113:/home/ubuntu/docker#

```



Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```

/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf

```