```
serhii@serhii-VirtualBox:~/docker/app$ cat Dockerfile
FROM ubuntu:21.04
RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/*
ENV APACHE_RUN_USER www-data
ENV APACHE_RUN_GROUP www-data
ENV APACHE_LOG_DIR /var/log/apache2
ENV APACHE_RUN_DIR /var/www/html
EXPOSE 80
CMD ["/usr/sbin/apache2", "-D", "FOREGROUND"]
serhii@serhii-VirtualBox:~/docker/app$ sudo docker build -t my_image .
Sending build context to Docker daemon  2.048kB
Step 1/8 : FROM ubuntu:21.04
21.04: Pulling from library/ubuntu
6f172cdbcbef: Pull complete
Digest: sha256:ba394fabd516b39ccf8597ec656a9ddd7d0a2688ed8cb373ca7ac9b6fe67848f
Status: Downloaded newer image for ubuntu:21.04
 ---> 7cc39f89fa58
Step 2/8 : RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/l
ists/*
 ---> Running in d0e23703738d
Get:1 http://security.ubuntu.com/ubuntu hirsute-security InRelease [110 kB]
Get:2 http://archive.ubuntu.com/ubuntu hirsute InRelease [269 kB]
Get:3 http://archive.ubuntu.com/ubuntu hirsute-updates InRelease [115 kB]
Get:4 http://security.ubuntu.com/ubuntu hirsute-security/restricted amd64 Packages [122 kB]
Get:5 http://archive.ubuntu.com/ubuntu hirsute-backports InRelease [101 kB]
Get:6 http://security.ubuntu.com/ubuntu hirsute-security/main amd64 Packages [250 kB]
Get:7 http://archive.ubuntu.com/ubuntu hirsute/restricted amd64 Packages [111 kB]
Get:8 http://security.ubuntu.com/ubuntu hirsute-security/universe amd64 Packages [287 kB]
Get:9 http://archive.ubuntu.com/ubuntu hirsute/multiverse amd64 Packages [252 kB]
Get:10 http://security.ubuntu.com/ubuntu hirsute-security/multiverse amd64 Packages [3643 B]
Get:11 http://archive.ubuntu.com/ubuntu hirsute/main amd64 Packages [1791 kB]
Get:12 http://archive.ubuntu.com/ubuntu hirsute/universe amd64 Packages [16.8 MB]
Get:13 http://archive.ubuntu.com/ubuntu hirsute-updates/main amd64 Packages [422 kB]
```

```
Step 6/8 : ENV APACHE_RUN_DIR /var/www/html
 ---> Running in fb4c6a1f7e36
Removing intermediate container fb4c6a1f7e36
 ---> 2a0652d908f1
Step 7/8 : EXPOSE 80
 ---> Running in bb568588e72f
Removing intermediate container bb568588e72f
 ---> e9310a17ec81
Step 8/8 : CMD ["/usr/sbin/apache2", "-D", "FOREGROUND"]
 ---> Running in b4001ae7bb6c
Removing intermediate container b4001ae7bb6c
 ---> 8f2d1c8a0efc
Successfully built 8f2d1c8a0efc
Successfully tagged my_image:latest
serhii@serhii-VirtualBox:~/docker/app$
```

```
serhii@serhii-VirtualBox:~/docker/app$ sudo docker run -p 80:80 --name=apache_custom my_image
docker: Error response from daemon: driver failed programming external connectivity on endpoint apach
e_custom (0b1cbd28deccdf65e1539e846c0d25003f3745d9fa29bfc6cfa5f4168c3136ba): Error starting userland
proxy: listen tcp4 0.0.0.0:80: bind: address already in use.
ERRO[0000] error waiting for container: context canceled
serhii@serhii-VirtualBox:~/docker/app$ sudo docker run -p 8080:80 --name=apache_custom my_image
docker: Error response from daemon: Conflict. The container name "/apache_custom" is already in use b
y container "8ccec482902812d351c1307dd495847bd0e743de934fba86bc7d58ade23dae25". You have to remove (o
r rename) that container to be able to reuse that name.
See 'docker run --help'.
serhii@serhii-VirtualBox:~/docker/app$ sudo docker run -p 8080:80 --name=apache_custom1 my_image
[Sat Jun 25 16:01:30.757786 2022] [core:warn] [pid 1] AH00111: Config variable ${APACHE_PID_FILE} is
not defined
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17
.0.2. Set the 'ServerName' directive globally to suppress this message
```


192.168.43.180
60%
Apache2 Ubuntu 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
apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
They are activated by symlinking available configuration files from their respective *-available/ counterparts. These should be managed by using our helpers a2enmod, a2dismod, a2ensite, a2dissite, and a2enconf, a2disconf . See their respective man pages for detailed information.