



```
ali@ALI:~/nodejs-app$ docker run -p 3000:3000 -d nodejs-app
34cf4abccf862a50500b1743359253debf816e5b2136462e79c36a293cbe1e52
ali@ALI:~/nodejs-app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
34cf4abccf86   nodejs-app     "docker-entrypoint.s..." 9 seconds ago  Up 8 seconds  0.0.0.0:3000->3000/tcp
```

sudo apt install php7.3 php7.3-cli php7.3-fpm php7.3-json php7.3-common php7.3-mysql php7.3-zip
php7.3-gd php7.3-mbstring php7.3-curl php7.3-xml php7.3-bcmath php7.3-intl php7.3-soap php7.3-
readline

```
ubuntu@ip-172-31-36-1:~$ php -m
[PHP Modules]
bcmath
calendar
Core
ctype
curl
date
dom
exif
fileinfo
filter
ftp
gd
gettext
hash
iconv
intl
json
libxml
mbstring
```

```

ubuntu@ip-172-31-36-1:~$ sudo nano /etc/nginx/sites-available/mobadra.com
ubuntu@ip-172-31-36-1:~$ cat nano /etc/nginx/sites-available/mobadra.com
cat: nano: No such file or directory
server {
    listen 80;
    server_name mobadra.com;

    root /var/www/html;
    index index.php index.html index.htm;

    location / {
        try_files $uri $uri/ =404;
    }

    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass 127.0.0.1:9000;
    }

    location ~ /\.ht {
        deny all;
    }

    location /static {
        alias /var/www/mobadra.com/html/static;
        gzip on;
        gzip_types image/png image/jpeg;
        gzip_proxied any;
        gzip_min_length 1000;
        expires max;
        add_header Cache-Control "public";
    }
}

ubuntu@ip-172-31-36-1:~$ sudo ln -s /etc/nginx/sites-available/mobadra.com /etc/
nginx/sites-enabled/

```

```

ubuntu@ip-172-31-36-1:~$ sudo unlink /etc/nginx/sites-enabled/default
ubuntu@ip-172-31-36-1:~$ sudo nano /var/www/html/info.php
ubuntu@ip-172-31-36-1:~$

```

```

ubuntu@ip-172-31-36-1:~$ cat /var/www/html/info.php
<?php
phpinfo();
?>

```

```

ubuntu@ip-172-31-36-1:~$ sudo mkdir -p /var/www/mobadra.com/html/static
ubuntu@ip-172-31-36-1:~$ sudo curl -o /var/www/mobadra.com/html/static/imagel.png https://tse4.mm.bing.net/th?id=OIP.XPGyNBUGYO6010eWd3oczwHaHE&pid=Api&P=0&h=220
[1] 44973
[2] 44974
[3] 44975
ubuntu@ip-172-31-36-1:~$ % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                          Dload  Upload  Total  Spent    Left  Speed
100 43715 100 43715    0    0  335k    0 --:--:-- --:--:-- --:--:--  336k

```

```

ubuntu@ip-172-31-36-1:~$ sudo mkdir -p /var/www/mobadra.com/html/static
ubuntu@ip-172-31-36-1:~$ sudo curl -o /var/www/mobadra.com/html/static/imagel.png https://tse4.mm.bing.net/th?id=OIP.XPGyNBUGYO6010eWd3oczwHaHE
[1] 44973
[2] 44974
[3] 44975
ubuntu@ip-172-31-36-1:~$ % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                          Dload  Upload  Total  Spent    Left  Speed
100 43715 100 43715    0    0  335k    0 --:--:-- --:--:-- --:--:--  336k

[1] Done          sudo curl -o /var/www/mobadra.com/html/static/imagel.png https://tse4.mm.bing.net/th?id=OIP.XPGyNBUGYO6010eWd3oczwHaHE
[2]- Done          pid=Api
[3]+ Done          P=0
ubuntu@ip-172-31-36-1:~$ ls -l /var/www/mobadra.com/html/static/
total 44
-rw-r--r-- 1 root root 43715 Jul 14 03:12 imagel.png
ubuntu@ip-172-31-36-1:~$

```

```
ubuntu@ip-172-31-36-1:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
ubuntu@ip-172-31-36-1:~$ sudo systemctl restart nginx
ubuntu@ip-172-31-36-1:~$ nano Dockerfile
ubuntu@ip-172-31-36-1:~$ cat Dockerfile
FROM php:7.3-fpm

# Copy website files
COPY . /var/www/html

# Set working directory
WORKDIR /var/www/html

# Install necessary PHP extensions
RUN docker-php-ext-install mysqli pdo pdo_mysql

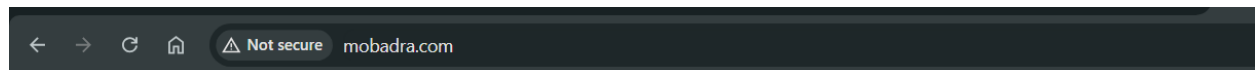
# Expose port 9000 and run php-fpm
EXPOSE 9000
CMD ["php-fpm"]
ubuntu@ip-172-31-36-1:~$
```

```
ubuntu@ip-172-31-36-1:~$ docker build -t php-app .
[+] Building 37.3s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 294B
=> [internal] load metadata for docker.io/library/php:7.3-fpm
=> [auth] library/php:pull token for registry-l.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 6.89MB
=> [1/4] FROM docker.io/library/php:7.3-fpm@sha256:2d68e401d2d3b9f8a6572791cd7a25062450c43ff52e58391146809741ad0885
=> => resolve docker.io/library/php:7.3-fpm@sha256:2d68e401d2d3b9f8a6572791cd7a25062450c43ff52e58391146809741ad0885
=> => sha256:2d68e401d2d3b9f8a6572791cd7a25062450c43ff52e58391146809741ad0885 1.86kB / 1.86kB
=> => sha256:a613dd57832654086618a81dbcl128846aa092489260c326ee95429b63c3cf213 31.38MB / 31.38MB
=> => sha256:09f7ea00daaa3b9cae2e5951b975de4dabf85357ffd707739c1779cd6dfec82a 2.62kB / 2.62kB
=> => sha256:f15d475049bf47b33a15371e40ba8b1a4535451220b68578292b23738335498b 225B / 225B
=> => sha256:886a5161983fb82d6cbd0a8f7f8d0ebb90c72e349afbc290428b81bb572f0868 91.60MB / 91.60MB
=> => sha256:fdecc4773f9eb39466c00ebbb74bc2c80cd95cc81a00704e2824a25aef652f 11.64kB / 11.64kB
=> => sha256:aa7666573a253171fcc168c406273e5843aa8aaef251f8690878edfd3eclb59 269B / 269B
=> => sha256:6db1ed4113b81521df3794bdb8fdd547001578d511ee9dd3c9540b5a8d146c8e 12.46MB / 12.46MB
=> => sha256:652562f77d1e534a9a3763046e37c01c7ff9a496244ec96f7274dab28d0eadaf 493B / 493B
=> => extracting sha256:a613dd57832654086618a81dbcl128846aa092489260c326ee95429b63c3cf213
=> => sha256:bcfce889d8d7c9f962588c6e977efec5682868a14a888d687d6e9df8c38417e3bb 25.44MB / 25.44MB
=> => sha256:dc59a6f9596de5b906da22c52b98c87a503da50e4c45f87dadba18f9dde13059 2.31kB / 2.31kB
=> => sha256:c563806393c35a3f4972e17216dfcae7903013039cf91db7724b0a492ab2cc43 248B / 248B
=> => sha256:fdbaab56fec96f0345b5952de240fc6f0766929f2e8aae654aea43b9cc04b72f 211B / 211B
=> => sha256:83f659d1b6c5ce59e4a0d3ebb4b557d32c58621b4f0cf8ef0fe3149f83703414 8.41kB / 8.41kB
=> => extracting sha256:f15d475049bf47b33a15371e40ba8b1a4535451220b68578292b23738335498b
=> => extracting sha256:886a5161983fb82d6cbd0a8f7f8d0ebb90c72e349afbc290428b81bb572f0868
=> => extracting sha256:aa7666573a253171fcc168c406273e5843aa8aaef251f8690878edfd3eclb59
=> => extracting sha256:6db1ed4113b81521df3794bdb8fdd547001578d511ee9dd3c9540b5a8d146c8e
=> => extracting sha256:652562f77d1e534a9a3763046e37c01c7ff9a496244ec96f7274dab28d0eadaf
=> => extracting sha256:bcfce889d8d7c9f962588c6e977efec5682868a14a888d687d6e9df8c38417e3bb
=> => extracting sha256:dc59a6f9596de5b906da22c52b98c87a503da50e4c45f87dadba18f9dde13059
=> => extracting sha256:c563806393c35a3f4972e17216dfcae7903013039cf91db7724b0a492ab2cc43
=> => extracting sha256:fdbaab56fec96f0345b5952de240fc6f0766929f2e8aae654aea43b9cc04b72f
=> => extracting sha256:83f659d1b6c5ce59e4a0d3ebb4b557d32c58621b4f0cf8ef0fe3149f83703414
=> [2/4] COPY . /var/www/html
=> [3/4] WORKDIR /var/www/html
=> [4/4] RUN docker-php-ext-install mysqli pdo pdo_mysql
=> exporting image
=> => exporting layers
=> => writing image sha256:0cd798af0295a4bd9fd6412f9511875109280c558f126e8ab9d11de5baa6839e
=> => naming to docker.io/library/php-app
ubuntu@ip-172-31-36-1:~$
```

```
ubuntu@ip-172-31-36-1:~$ docker run -d -p 9000:9000 --name php-app php-app
1b4526de2a58c5dd03547f8cc47a8850526ae59d5d5c1ae93a74a72466f07d34
ubuntu@ip-172-31-36-1:~$
```

```
ubuntu@ip-172-31-36-1:~$ ping mobadra.com
PING hdr-nlb7-aebd5d615260636b.elb.us-east-1.amazonaws.com (34.205.242.146) 56(84) bytes of data.
```

```
ubuntu@ip-172-31-36-1:~$ ping mobadra.com
PING mobadra.com (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.028 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.033 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.040 ms
64 bytes from localhost (127.0.0.1): icmp_seq=4 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=5 ttl=64 time=0.033 ms
64 bytes from localhost (127.0.0.1): icmp_seq=6 ttl=64 time=0.141 ms
64 bytes from localhost (127.0.0.1): icmp_seq=7 ttl=64 time=0.033 ms
^C
--- mobadra.com ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6138ms
rtt min/avg/max/mdev = 0.028/0.048/0.141/0.037 ms
ubuntu@ip-172-31-36-1:~$ curl mobadra.com
<html>
<head><title>403 Forbidden</title></head>
<body>
<center><h1>403 Forbidden</h1></center>
<hr><center>nginx/1.24.0 (Ubuntu)</center>
</body>
</html>
```



Success! The mobadra.com server block is working!

Commands

```
sudo mkdir -p /var/www/mobadra.com/html
```

```
sudo mkdir -p /var/www/test.com/html
```

```
sudo chown -R $USER:$USER /var/www/example.com/html
```

```
sudo chown -R $USER:$USER /var/www/test.com/html
```

```
sudo chmod -R 755 /var/www
```

```
nano /var/www/example.com/html/index.html
```

```
<html>
```

```
  <head>
```

```
<title>Welcome to Mobadra.com!</title>

</head>

<body>

    <h1>Success! The mobadra.com server block is working!</h1>

</body>

</html>
```

```
cp /var/www/mobadra.com/html/index.html /var/www/test.com/html/
nano /var/www/test.com/html/index.html
```

```
<html>

    <head>

        <title>Welcome to Test.com!</title>

    </head>

    <body>

        <h1>Success! The test.com server block is working!</h1>

    </body>

</html>
```

```
sudo cp /etc/nginx/sites-available/default /etc/nginx/sites-available/mobadra.com
sudo nano /etc/nginx/sites-available/mobadra.com
```

```
server {

    listen 80;

    listen [::]:80;


    root /var/www/ mobadra.com/html;

    index index.html index.htm index.nginx-debian.html;


    server_name mobadra.com www. mobadra.com;
```

```
location / {  
    try_files $uri $uri/ =404;  
}  
}
```

```
grep -R default_server /etc/nginx/sites-enabled/
```

```
sudo cp /etc/nginx/sites-available/mobadra.com /etc/nginx/sites-available/test.com
```

```
sudo nano /etc/nginx/sites-available/test.com
```

```
server {  
    listen 80;  
    listen [::]:80;  
  
    root /var/www/test.com/html;  
    index index.html index.htm index.nginx-debian.html;  
  
    server_name test.com www.test.com;
```

```
location / {  
    try_files $uri $uri/ =404;  
}  
}
```

```
sudo ln -s /etc/nginx/sites-available/mobadra.com /etc/nginx/sites-enabled/
```

```
sudo ln -s /etc/nginx/sites-available/test.com /etc/nginx/sites-enabled/
```

```
sudo nano /etc/nginx/nginx.conf
```

```
http {  
    ...
```

```
server_names_hash_bucket_size 64;
```

...

}

sudo nginx -t

sudo systemctl restart nginx

sudo nano /etc/hosts

127.0.0.1 mobadra.com www.mobadra.com

127.0.0.1 test.com www.test.com