










# DEPLOY A NGNIX SERVER ON DOCKER

STEP1: create a EC2 instance

	Name 	Instance ID	Instance state 	Instance type 	Status check	Alarm status
	nginx	i-02dacd97c9fe5ddfe	 Running  	t2.micro	 2/2 checks passed	<a href="#">View alarms +</a>

**STEP2:** Install docker

```
sudo apt update
```

```
sudo apt install docker.io
```

```
sudo systemctl start docker
```

```
sudo docker --version
```

**STEP3:**create the mkdir file

**touch dockerfile:**

```
FROM nginx
```

```
RUN rm /etc/nginx/conf.d/default.conf
```

```
COPY . .
```

```
EXPOSE 80
```

**touch index.html:NNNNN**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Welcome to NGINX</title>
```

```
<style>
```

```
  body {
```

```
    font-family: Arial, sans-serif;
```

```
    text-align: center;
```

```
        margin-top: 50px;
    }
    h1 {
        color: #333;
    }
</style>
</head>
<body>
    <h1>Welcome to Your NGINX Server!</h1>
</body>
</html>
```

**STEP4:** build the image

```
ubuntu@ip-172-31-5-146:~$ cd file
ubuntu@ip-172-31-5-146:~/file$ ls
dockerfile  index.html
ubuntu@ip-172-31-5-146:~/file$ vi index.html
ubuntu@ip-172-31-5-146:~/file$ sudo docker build -t mynginx_image .
```

```
Sending build context to Docker daemon  3.072kB
Step 1/4 : FROM nginx
--> f876bfc1cc63
Step 2/4 : RUN rm /etc/nginx/conf.d/default.conf
--> Using cache
--> 82a24e9db878
Step 3/4 : COPY . .
--> 08e2718bdf88
Step 4/4 : EXPOSE 80
```

## STEP4:Build the container

```
ubuntu@ip-172-31-5-146:~/file$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
dd4405619107   mynginx_image  "/docker-entrypoint..." 13 seconds ago Up 13 seconds  80/tcp         frosty_bhaskara
48382ccedc8e   57a33298fd1a  "/docker-entrypoint..." 18 minutes ago Up 18 minutes  80/tcp         romantic_panini
```

## STEP5:Edit the inbound rules with allow the 80 port number

Inbound rules (1)							Manage tags	Edit inbound rules
<input type="text" value="Search"/>							< 1 >	⚙
<input type="checkbox"/>	Name	Security group rule ID	IP version	Type	Protocol			
<input type="checkbox"/>	-	sgr-0d8c30cd54c5f7481	IPv4	All traffic	All			

## STEP6:Acess with ip and port number in web

⚠ Not secure 52.66.235.151

# Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](https://nginx.org).  
Commercial support is available at [nginx.com](https://nginx.com).

*Thank you for using nginx.*