## **Dockerfile Commands & Example**

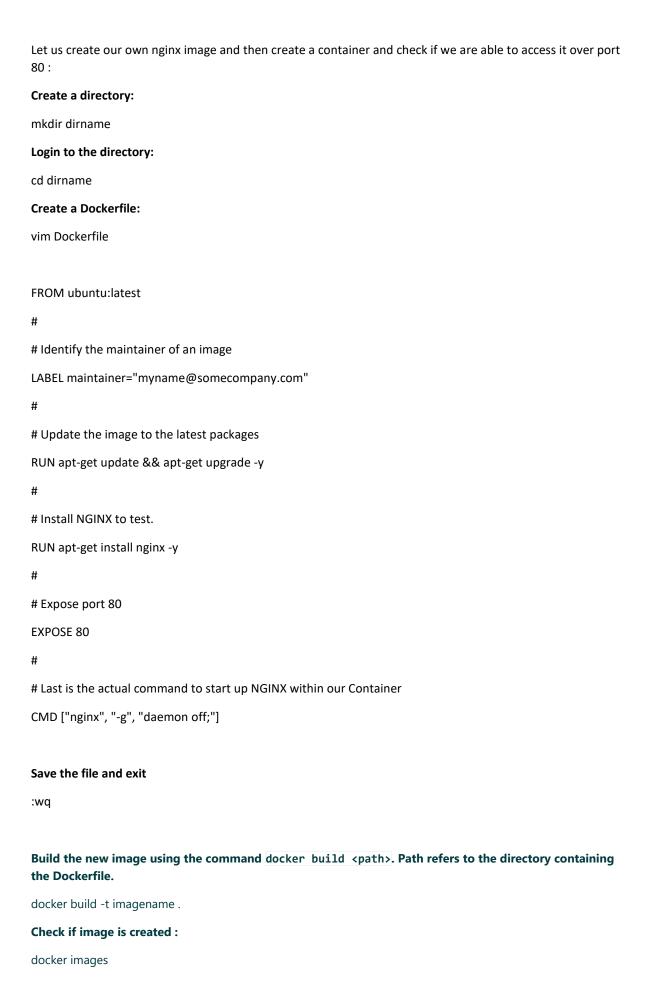
Command	Description
ADD	Copies a file from the host system onto the container
CMD	The command that runs when the container starts
ENTRYPOINT	
ENV	Sets an environment variable in the new container
EXPOSE	Opens a port for linked containers
FROM	The base image to use in the build. This is mandatory and must be the first command in the file.
MAINTAINER	An optional value for the maintainer of the script
ONBUILD	A command that is triggered when the image in the Dockerfile is used as a base for another image
RUN	Executes a command and save the result as a new layer
USER	Sets the default user within the container
VOLUME	Creates a shared volume that can be shared among containers or by the host machine
WORKDIR	Set the default working directory for the container

Once you've created a Dockerfile and added all your instructions, you can use it to build an image using the docker build command. The format for this command is:

docker build [OPTIONS] PATH | URL | -

The build command results in a new image that you can start using docker run, just like any other image. Each line in the Dockerfile will correspond to a layer in the images' commit history.

Example:



```
Create a container:
docker run -d imagename
Check if container has been created:
docker ps
Login to the container and perform the below steps
docker exec -it containername or containerid /bin/sh
apt-get install iputils-ping
ping google.com
exit
Get the container ip:
docker inspect containername or containerid
Access the container ip from docker host:
curl container ip
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
  body {
    width: 35em;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif;
  }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
```

If you see this page, the nginx web server is successfully installed and

working. Further configuration is required.

<a href="http://nginx.org/">nginx.org</a>.<br/>

<a href="http://nginx.com/">nginx.com</a>.

Commercial support is available at

>For online documentation and support please refer to

<m>Thank you for using nginx.</body>
</html>