

Creating Docker Image

- [Flask Docker Image](#)

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Introduction

Please note use lowercase for all the folder names. In my case I have created a folder "DOCKER" on my folder where all my docker images will be created.

“ Go to **/home/snk/dockers/**

Create a directory with the application name for example **allclaims**

Place ***.py** , **Dockerfile** and Requirement.txt

Step 1 - Stop Docker Container (If Any)

```
docker container ps
```

Take the correct container id and stop it

```
docker container stop Name_of_the_container
```

Remove the container

```
docker container rm Name_of_the_container
```

Build the container using container build command

```
docker build -t name_of_the_image:latest .
```

Run the container & expose port to use it in the Nginx reverse proxy.

```
docker run -it -d -p 5000:5000 name_of_the_image
```

Step 2 - Proxy pass in Nginx server

Use the default site file, in case if you don't use the server blocking, else use the respective server file in Nginx server.

```
sudo nano /etc/nginx/sites-available/default
```

Add the location with application name and its corresponding dockers port and path as shown below.

```
location /allclaims/ {  
    proxy_pass    http://103.4.6.220:5000/;  
}
```

Restart the Nginx server to changes to reflect.

```
sudo systemctl reload nginx
```

Information

“ Most of the time when you run docker images inside the proxy you might end up with improper CSS or site load, in that case always use environment variable of APP_URL, check each application for more information on the same

Example while running the docker use the following command along with run statement.

```
" -e APP_URL=https://docker2.auto-boxe.com/book "
```