**Create Image using Dockerfile**

Here we will create a simple nginx application using docker build.

Docker Build - The docker build command builds Docker images from a Dockerfile and a "context". A build's context is the set of files located in the specified PATH or URL. The build process can refer to any of the files in the context.

Create a dir for dockerfile demo

*$ mkdir dockerfiledemo*
*$ cd dockerfiledemo/*
*$ vim index.html*

Copy paste the below content in index.html from :https://pastebin.com/raw/cZLN2M2c

Save and exit the vim editor using the below command

*:wq (hit enter)*

Create a Dockerfile with following content:

*$ Vim Dockerfile*

Copy and paste the below content to the Dockerfile

Docker file : https://pastebin.com/raw/N8mJNWht

Save and exit the VIM editor using the same command as above [ :wq (hit enter)]

*$ docker ps*

:- Stop and remove all the containers running on port 80 before building new images and running them

*$ docker stop <container ID>*
*$ docker rm <container ID>*

*$ docker build . -t dockerfiledemo*

Varify that the Image has been created with the tag as dockerfiledemo by running the below command

*$ docker images*

Run a docker container using the image created.

*$ docker run -d -p 80:80 -t <Image name>*

*$ docker ps*

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS | NAMES |
|---|---|---|---|---|---|---|
| 19a1a31d4ceb | dockerfiledemo | "nginx -g 'daemon ..." | 17 seconds ago | Up 16 seconds | 0.0.0.0:80->80/tcp | zen_payne |

Goto the browser and browse the host on default port 80 to test.