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.

1. Create a dir for dockerfile demo

$ mkdir dockerfiledemo
$ cd dockerfiledemo/

Clone the Git repo for this lab

$ git clone https://github.com/arshad75/pvlab.git
$ cd pvlab

3. Create a Dockerfile

$ touch Dockerfile
$ sudo curl -k *https://pastebin.com/raw/N8mJNWht > Dockerfile*
$ docker build . -t delldemo-arshad

4. Varify that the image has been build

$ docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
delldemo-arshad	latest	3677d7b5b04a	3 seconds ago	112MB
delldemo	latest	e346bad31086	2 days ago	113MB

4. 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

5. Run an Image from the Image created

$ docker run -d -p 80:80 --name <container-name> <image>
Example
docker run -d -p 80:80 --name demo_dell delldemo-arshad

$ docker ps

Example

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ccaf60e7c277	delldemo-arshad:latest	"/bin/sh"	7 seconds ago	Exited (0)		demo_dell

Ccaf60e7c277 is the docker ID

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

http://<public-ip-of-your-workstation>:80