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## Assignment-1

### Kubernetes and Docker:Container Masterclass

(View image at: <https://hub.docker.com/u/tanc2002>)

#### Problem Statement:

Create a file called Docker File and edit it using vim.

Please note that the name of the file has to be "Docker file" with "D" as capital.

Build your Docker File using the following instructions.

#This is a sample Image.

FROM ubuntu

MAINTAINER [demour@ibm.com](mailto:demour@ibm.com)

RUN apt-get update

RUN apt-get install -y nginx

CMD ["echo", "Image created"]

Save the file

#### Methodology:

**Step 1:** Change directory to assignment-1 and create a Dockerfile.

```
taneeshq@DESKTOP-63B6L7D:~/assignments/docker-projects$ cd assignment-1
taneeshq@DESKTOP-63B6L7D:~/assignments/docker-projects/assignment-1$ ls
Dockerfile
```

**Step 2:** Open the file using vim editor.

```
taneeshq@DESKTOP-63B6L7D:~/assignments/docker-projects/assignment-1$ vi Dockerfile
```

**Step 3:** Write the given code by going into insert mode and save the file.

```
# This is a sample image
FROM ubuntu

MAINTAINER demours@ibm.com

RUN apt-get update

RUN apt-get install -y nginx

CMD ["echo", "Image created"]

:~$
```

**Step 4:** Create an image of the file using docker build.

```
taneeshq@DESKTOP-63B6L7D:~/assignments/docker-projects/assignment-1$ docker build -t sample-image .  
[+] Building 461.9s (5/7)                                                                                                         docker:d  
=> [internal] load build definition from Dockerfile  
=> => transferring dockerfile: 186B  
=> [internal] load metadata for docker.io/library/ubuntu:latest  
=> [auth] library/ubuntu:pull token for registry-1.docker.io  
=> [internal] load .dockerignore  
=> => transferring context: 2B  
=> [1/3] FROM docker.io/library/ubuntu:latest@sha256:b59d21599a2b151e23eea5f6602f4af4d7d31c4e236d22bf0b62b86d2e3  
=> => resolve docker.io/library/ubuntu:latest@sha256:b59d21599a2b151e23eea5f6602f4af4d7d31c4e236d22bf0b62b86d2e3  
=> [2/3] RUN apt-get update  
=> => # Get:15 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [26.7 kB]  
=> => # Get:16 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [1490 kB]  
=> => # Get:17 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [48.0 kB]  
=> => # Get:18 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [31.8 kB]  
=> => # Fetched 30.3 MB in 7min 11s (70.3 kB/s)  
=> => # Reading package lists...
```

```
taneeshq@DESKTOP-63B6L7D:~/assignments/docker-projects/assignment-1$ docker build -t sample-image .
```

```
[+] Building 494.2s (6/7)                                docker:default
```

```
=> [internal] load build definition from Dockerfile          3.6
```

```
=> => transferring dockerfile: 186B                        0.0
```

```
=> [internal] load metadata for docker.io/library/ubuntu:latest 16.1
```

```
=> [auth] library/ubuntu:pull token for registry-1.docker.io 0.0
```

```
=> [internal] load .dockerignore                          2.6
```

```
=> => transferring context: 2B                               0.0
```

```
=> [1/3] FROM docker.io/library/ubuntu:latest@sha256:b59d21599a2b151e23eea5f6602f4af4d7d31c4e236d22bf0b62b86d2e3 3.5
```

```
=> => resolve docker.io/library/ubuntu:latest@sha256:b59d21599a2b151e23eea5f6602f4af4d7d31c4e236d22bf0b62b86d2e3 1.4
```

```
=> [2/3] RUN apt-get update                                 438.4
```

```
=> [3/3] RUN apt-get install -y nginx                      29.3
```

```
=> => # Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 libkeyutils1 amd64 1.6.3-3build1 [9490 B]
```

```
=> => # Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libkrb5-3 amd64 1.20.1-6ubuntu2.6 [348 kB]
```

```
=> => # Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libgssapi-krb5-2 amd64 1.20.1-6ubuntu2.6 [143
```

```
=> => # kB]
```

```
=> => # Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 libtirpc-common all 1.3.4+ds-1.1build1 [8094 B]
```

```
=> => # Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 libtirpc3t64 amd64 1.3.4+ds-1.1build1 [82.6 kB]
```

```
taneeshq@DESKTOP-63B6L7D:~/assignments/docker-projects/assignment-1$ docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
sample-image	latest	ac37338cd04c	About a minute ago	214MB
mongo	latest	15fb53a5160e	5 days ago	1.2GB
hello-world	latest	0b6a027b5cf3	4 months ago	20.4kB
mongo-express	latest	1b23d7976f02	15 months ago	286MB