Experiment 10

Aim: - Working with .dockerignore

Step 1 - First we will create an image where we will record the size of image.

1. Creating an image with name myimg of version 1.0 where two files will be there, first dockerfile and another file will be password.txt in folder named sample.

Command: - mkdir sample Command: - vi Dockerfile Command: - vi password.txt

Command: - docker build -t myimg:1.0 . Command: - docker run myimg:1.0 ls /app

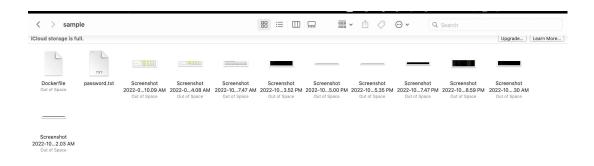


So the size of myimg image of version 1.0 is 5.29 mb.

```
vishalthakur@vishals-MacBook-kir sample % docker run mying:1.0 ls /app
password.txt
```

2. Creating an another image with name myimg of version 1.1 where we will be adding some random image in the same folder and making build of it.

Command: - docker build -t myimg:1.1 . Command: - docker run myimg:1.1 ls /app





In 3rd line of Dockerfile we have used '.' which commands to copy all the files in the current directory to app folder.

```
      Vishalthakur@vishals-Mac8ook-Air sample % vio Dockerfile

      Vishalthakur@vishals-Mac8ook-Air sample % docker build -t myimg:1.1 .

      [+] Building 0.25 (9/9) FINISHID

      © [internal] load build definition from Dockerfile
      0.6s

      ⇒> transferring dockerfile: 968
      0.6s

      ⇒> transferring context: 28
      0.6s

      ⇒> transferring context: 28
      0.6s

      ⇒ [internal] load metadata for docker.io/library/alpine:latest
      0.6s

      ⇒> (internal] load build context
      0.6s

      ⇒> transferring context: 1,91MB
      0.6s

      ⇒ 1/14] FROM docker.io/library/alpine
      0.6s

      ⇒ (AcRED [2/4] RUM kakir/ /app
      0.6s

      ⇒ (3/4) CUPY / /app
      0.6s

      ⇒ (3/4) CUPY / /app
      0.6s

      ⇒ × exporting to image
      0.6s

      ⇒ > x exporting layers
      0.6s

      ⇒ > x exporting layers
      0.6s

      ⇒ > x exporting layers
      0.6s

      ⇒ x exporting layers</td
```

So the size of myimg image of version 1.1 has increased to 7.2 mb

Now after building both the images we have problem that our password.txt which is a very sensitive file and other .png file which is of no use, should not be bundle up to create an image.

So here we will use .dockerignore file where we will mention the files which should be ignored while creating the image.

3. Creating .dockerignore file and creating another image of version 1.3

Command: - echo password.txt >> .dockerignore

Command: - vi .dockerignore

Command: - docker build -t myimg:1.1.

Command: - docker run myimg:1.1 ls /app

So the size of myimg image of version 1.2 is 5.3 mb.

```
vishalthakur@vishals-MacBook-Air sample % docker run myimg:1.2 ls /app
Dockerfile
vishalthakur@vishals-MacBook-Air sample %
```

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