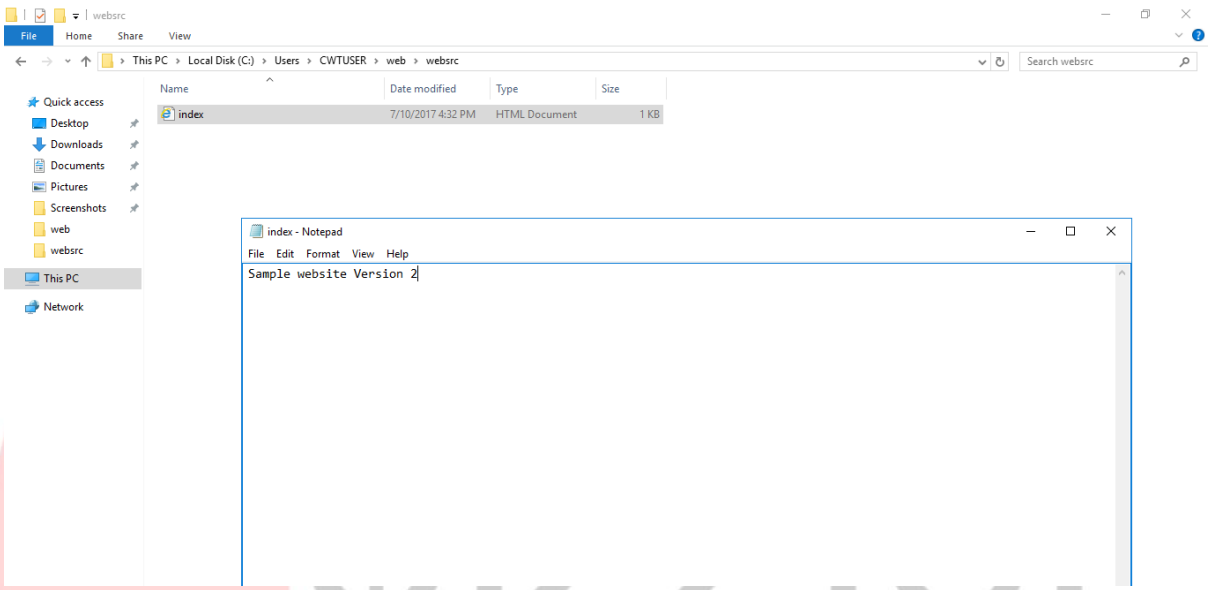
Working with the Container Tags

The container tags will help us to easily handle and work with our containers rather than always using their ID at the time of approaching. This will also help us to have an idea about which container we are working in.

- In the container host machine, open up the PowerShell and get into the directory **web** in which we have previously created our **Dockerfile** and the **websrc** folder.
- Now open the **websrc** folder and edit the HTML file with some new data indicating that this website is the second version and save it.



- Now in the PowerShell run the command to again build the image from the Dockerfile. But this time we are going to name it with some new tag and also the website that is hosted in them will be of version 2. Run the following command now.

docker build -t web:version2 .

- Now this has created a new image with second version of our website. This time the deployment of our image took very less amount of time because the step 3 has proceeded from the cache that has been stored during the previous execution.

```
PS C:\Users\CWTUSER\web>
PS C:\Users\CWTUSER\web> docker build -t web:version2 .
Sending build context to Docker daemon 4.096 kB
Step 1/5 : FROM microsoft/windowsservercore
 ---> 015cd665fbdd
Step 2/5 : MAINTAINER @kishore_1702
 ---> Using cache
 ---> 3ad5efc19bd2
Step 3/5 : RUN PowerShell.exe -Command Install-WindowsFeature Web-Server
 ---> Using cache
 ---> 4e8f7444f459
Step 4/5 : COPY ./websrc c:/inetpub/wwwroot
 ---> 4f00c3d2b384
Removing intermediate container 5596ab90df15
Step 5/5 : CMD powershell
 ---> Running in 86e75492bcfb
 ---> 27148ed8d814
Removing intermediate container 86e75492bcfb
Successfully built 27148ed8d814
PS C:\Users\CWTUSER\web>
```

- Now get all the available images by running the images command.

docker images

```
PS C:\Users\CWTUSER\web>
PS C:\Users\CWTUSER\web> docker images
REPOSITORY                  TAG                 IMAGE ID            CREATED             SIZE
web                         version2            27148ed8d814        5 minutes ago       10.5 GB
web                         latest              0b048da7dfbd        37 minutes ago      10.5 GB
my-custom-image             latest              af9f228d94b3        3 hours ago         1.09 GB
microsoft/nanoserver        10.0.14393.1358_ru-ru  cc521f5796c9     3 weeks ago         1.07 GB
microsoft/windowsservercore latest              015cd665fbdd        3 weeks ago         10.2 GB
microsoft/nanoserver        latest              4a8212a9c691        3 weeks ago         1.04 GB
PS C:\Users\CWTUSER\web>
```

- We shall try changing the tag name of the image named container with tag **latest** to **version1.** Run the following code,

docker tag web:latest web:version1

- Now again run the command **docker images** to get all the images and you can find that the tag of the images getting changed. Here you will be having same image with different tag names and common image ID.

```
PS C:\Users\CWTUSER\web> docker tag web:latest web:version1
PS C:\Users\CWTUSER\web> docker images
REPOSITORY                  TAG                 IMAGE ID            CREATED             SIZE
web                         version2            27148ed8d814        13 minutes ago      10.5 GB
web                         latest              0b048da7dfbd        45 minutes ago      10.5 GB
web                         version1            0b048da7dfbd        45 minutes ago      10.5 GB
my-custom-image             latest              af9f228d94b3        3 hours ago         1.09 GB
microsoft/nanoserver        10.0.14393.1358_ru-ru  cc521f5796c9     3 weeks ago         1.07 GB
microsoft/windowsservercore latest              015cd665fbdd        3 weeks ago         10.2 GB
microsoft/nanoserver        latest              4a8212a9c691        3 weeks ago         1.04 GB
PS C:\Users\CWTUSER\web>
```

- We shall now remove the old tag name by running the command,

docker rmi web:latest

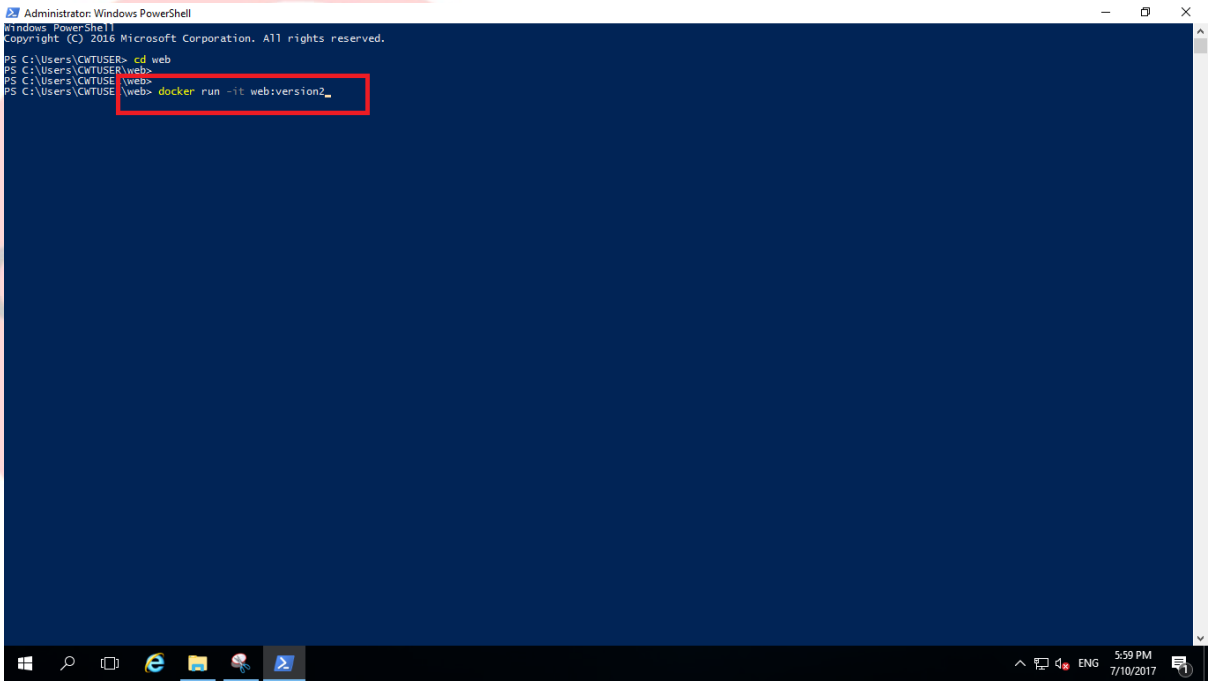
```
PS C:\Users\CWTUSER\web>
PS C:\Users\CWTUSER\web> docker rmi web:latest
Untagged: web:latest
PS C:\Users\CWTUSER\web>
```

- Again, run the **docker images** command to get the images. Now you can find different tags names for the two different images.

```
PS C:\Users\CWTUSER\web>
PS C:\Users\CWTUSER\web> docker images
REPOSITORY                      TAG                 IMAGE ID            CREATED             SIZE
web                             version2            27148ed8d814        19 minutes ago      10.5 GB
web                             version1            0b048da7dfbd        51 minutes ago      10.5 GB
my-custom-image                 latest              af9f228d94b3        3 hours ago         1.09 GB
microsoft/nanoserver            10.0.14393.1358_ru-ru   cc521f5796c9        3 weeks ago         1.07 GB
microsoft/windowsservercore     latest              015cd665fbdd        3 weeks ago         10.2 GB
microsoft/nanoserver            latest              4a8212a9c691        3 weeks ago         1.04 GB
PS C:\Users\CWTUSER\web>
```

- Now try changing the tag **version2** to **latest** and remove the old tag. This is how we can work with the tag names of the containers.
- These containers tags can be used to work with the container images. Now try running any one of these images by using their tag name. Run the below code and check it. You can work with the containers.

docker run -it web:version2



- This is how we can handle the tag names and work with these tag names we can work with the container images.

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