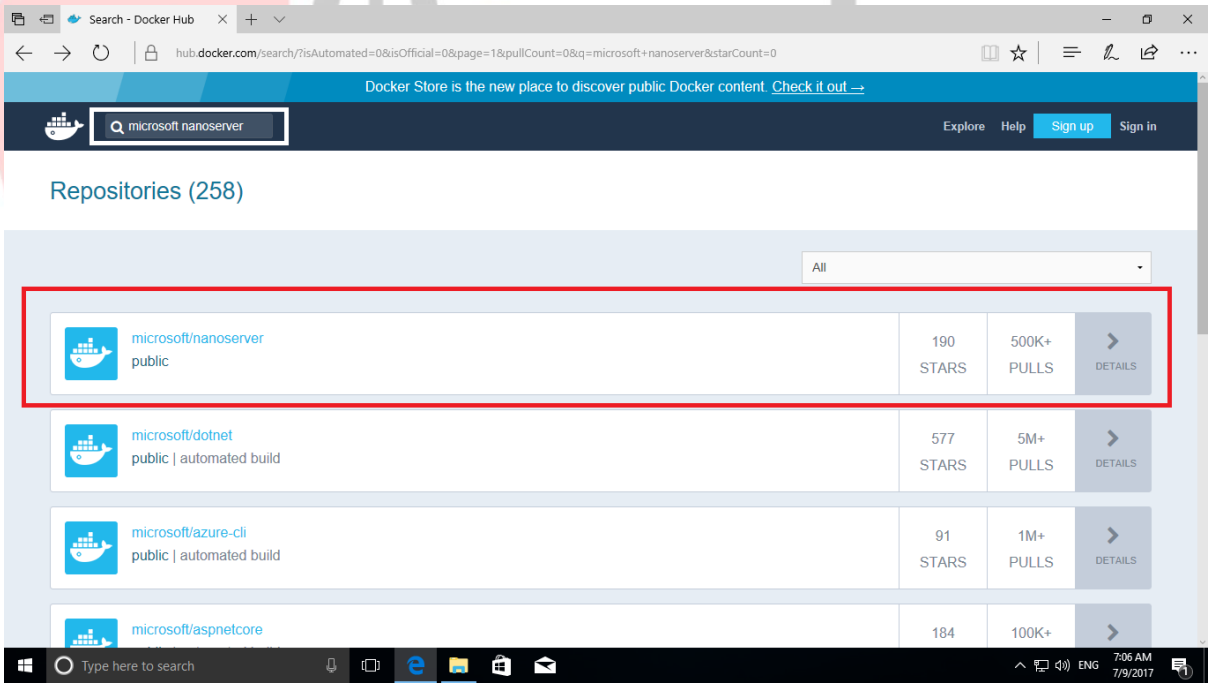
Pulling Base Container Images

Objective:

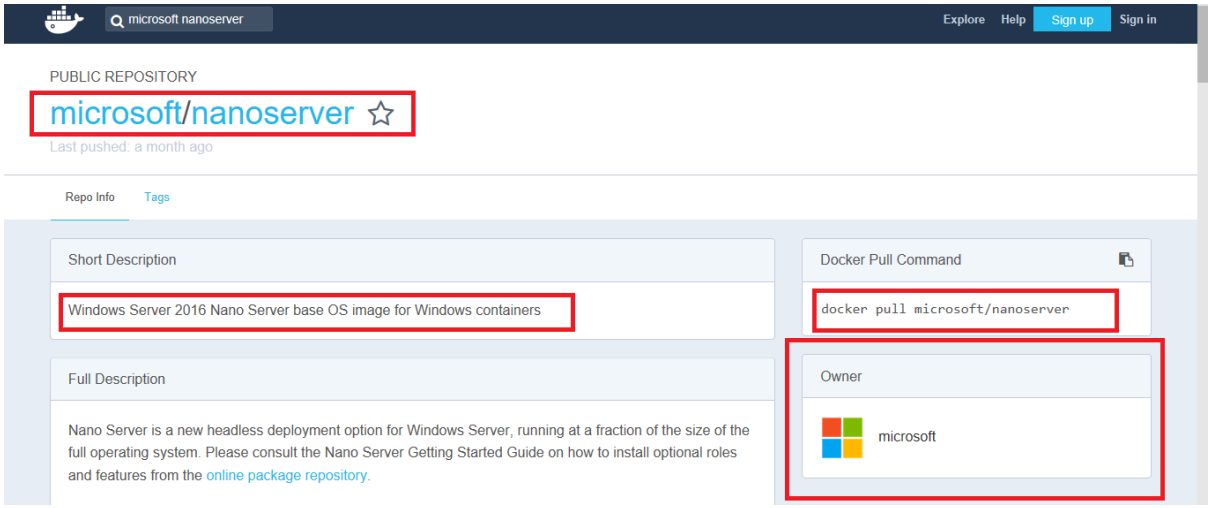
Until now we have deployed our container in the Nano Server VM and Windows Server VM. The next work is to pull down the Images for these containers. The Docker is the container which we have created still now. In the following lab, we will pull some image for that container form the Microsoft Container images repository.

Step 1: Surfing Docker Hub

- We shall surf for the Docker hub website which actually contains the various container images. We are going to work with the windows machines and hence we shall try pulling the images that are provided by the Microsoft. Hit the following URL to reach the Docker hub.
  https://hub.docker.com/
- Now in the search box, search for **Microsoft Nano Server**. You will be getting some bunch of operating systems. Click on the first one which is the official Nano Server Image.



- After clicking on the image, you will get a window that consists of the code which can be used in the PowerShell to pull the image.

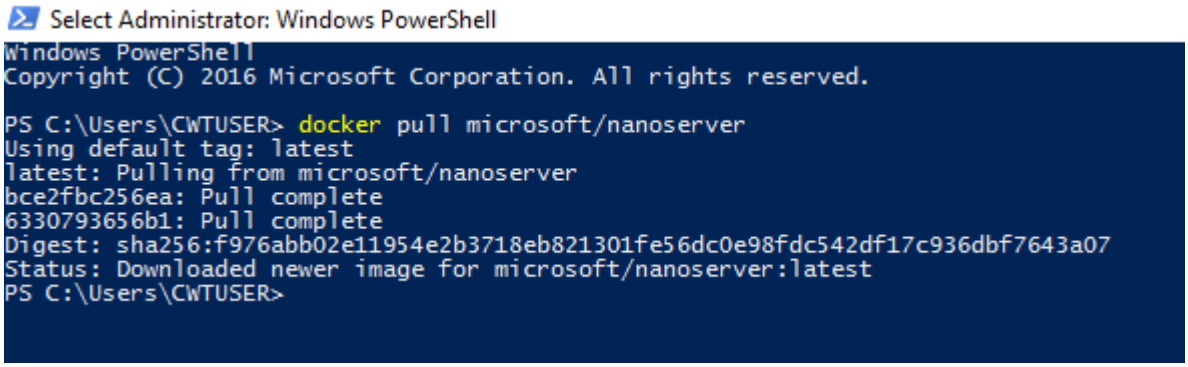


Step 2: Pulling the latest Image

- Now login into the **DockerVM** which we have created initially. This VM consists of the **Docker Container** installed in it. So we can download our Images in there.
- Now we shall try downloading the Images from the Images repository which we have seen in the docker hub. To pull the image from there, we should run the following PowerShell command by opening PowerShell in the administrator rights.

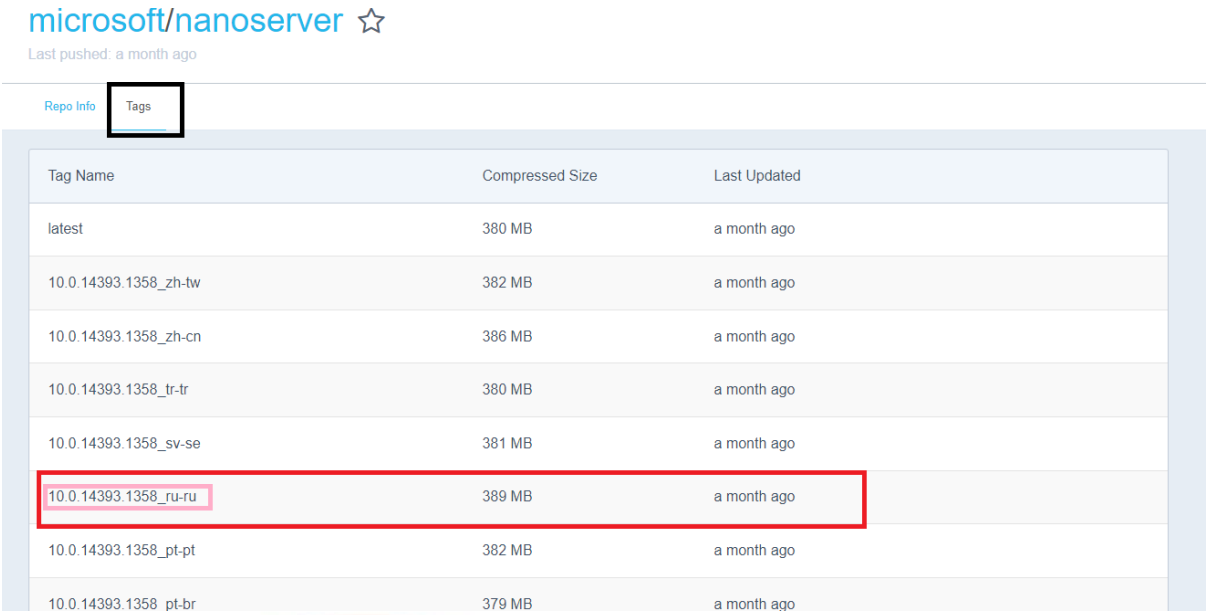
  docker pull microsoft/nanoserver

- By default, this will pull the latest update of the Nano Server image that is available in the Image repository. This will take 2 to 3 minutes to get download.



Step 3: Pulling the Specific Image

- This time we shall try pulling some specific image from the repository. For that click on the tag option in the docker hub.



- Here you can find different tags for different versions of the images. Now we shall try downloading some old version. For that we need to choose the required version from the tags and copy the tag ID to pull that image.
- Now come back to power shell and run the following command to pull the image. Here replace the yellow part with the version which you want to pull. This will again take a few more minutes to get installed.

docker pull microsoft/nanoserver:10.0.14393.1358_ru-ru

```
PS C:\Users\CWTUSER> docker pull microsoft/nanoserver:10.0.14393.1358_ru-ru
10.0.14393.1358_ru-ru: Pulling from microsoft/nanoserver
d97a4955242e: Pull complete
1239e0cf8a74: Pull complete
Digest: sha256:9d6413a658e010e8818cca13aa3d22cb0546f64b38410e5b60c33d835cf7e527
Status: Downloaded newer image for microsoft/nanoserver:10.0.14393.1358_ru-ru
PS C:\Users\CWTUSER>
```

Step 4: Checking the Pulled Images

- Now we shall check for the docker images that we have pulled from the repository. For this run the command,

docker images

```
PS C:\Users\CWTUSER>
PS C:\Users\CWTUSER> docker images
REPOSITORY              TAG                     IMAGE ID            CREATED             SIZE
microsoft/nanoserver    10.0.14393.1358_ru-ru   cc521f5796c9        3 weeks ago         1.07 GB
microsoft/nanoserver    latest                  4a8212a9c691        3 weeks ago         1.04 GB
```

Step 5: Pulling Windows Server Core Image

- Again, we shall try pulling the Windows Server Image from the Docker repository. For this run the command

docker pull microsoft/windowsservercore

- Server Core is large in size and it will take some time to get downloaded. Just wait for it to get downloaded.

```
PS C:\Users\CWTUSER>
PS C:\Users\CWTUSER>
PS C:\Users\CWTUSER> docker pull microsoft/windowsservercore
Using default tag: latest
latest: Pulling from microsoft/windowsservercore
3889bb8d808b: Pull complete
423d66441981: Pull complete
Digest: sha256:290699e4830b6710538db1963e108e4c0429058bab5cdc4abc69987c46b1e5be
Status: Downloaded newer image for microsoft/windowsservercore:latest
PS C:\Users\CWTUSER>
```

- Again, run the **docker images** to view the images which you have downloaded.

```
PS C:\Users\CWTUSER> docker images
REPOSITORY                  TAG                 IMAGE ID            CREATED             SIZE
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>
```

- Here, we have successfully pulled the images which we require to run inside the Docker Container.