Docker Commands and Code

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Reference link: - Docker Commands

Part-1

- 1. To download the image and then listing out all the docker images on the system with image details
 - >> docker pull httpd

```
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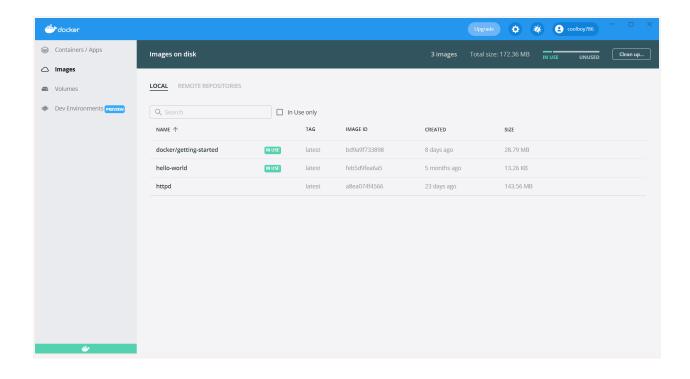
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Displaying images

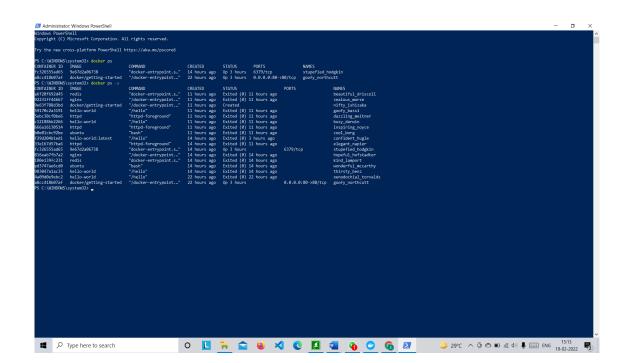
>> docker images



2.List all the docker containers running/exited/stopped with container details.

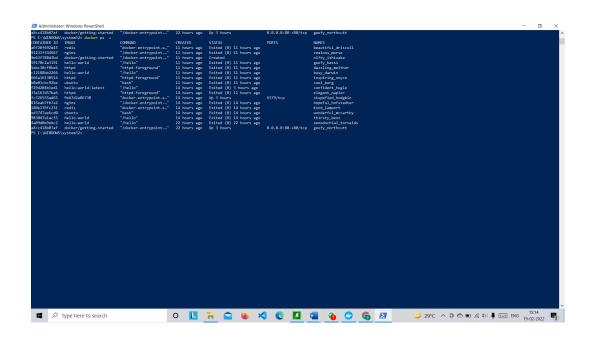
• lists all the docker containers are running with container details.

>> docker ps



• List all the docker containers running/exited/stopped with container details.

>> docker ps -a



- 3. Removing the docker image and docker container and then checking for the same
 - Removing container

>> docker rm 9b6343d3b5a0[Container-ID]

• Displaying whether container is removed

>> docker ps -a

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• Remove the docker image with the docker image id mentioned in the command

>> docker rmi fce289e99eb9[Image-ID]

4. Know the difference between kill and stop docker and use both commands

The docker stop and docker kill commands have the following differences:

- 1. docker stop attempts to gracefully shutdown container(s) while docker kill (by default) immediately stops/terminates them;
- 2. docker stop issues a SIGTERM signal to the main process inside the container, while docker kill (by default) issues a SIGKILL signal;
- 3. With docker kill, you may specify to send a different signal (to the main process inside the container) than the default SIGKILL signal, using the --signal flag. Same thing is not possible with the docker stop command;
- 4. With docker stop, the container(s) must comply to the shutdown request within a (configurable) grace period (which

defaults to 10 seconds), after which it forcibly tries to kill the container. docker kill does not have any such timeout period.

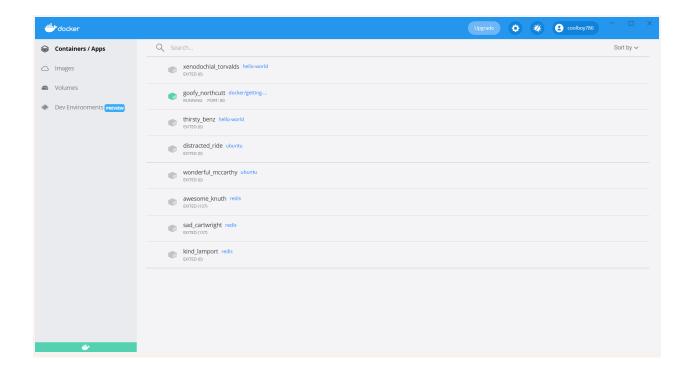
- Stop a container with the container id mentioned in the command.
 - >> docker stop 09ca6feb6efc[Container-ID]

```
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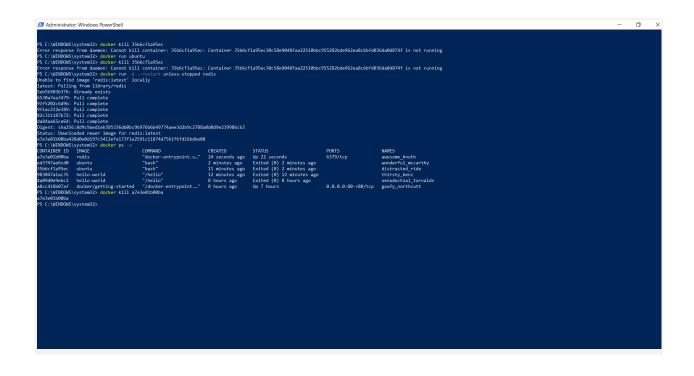
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Container list after stopping

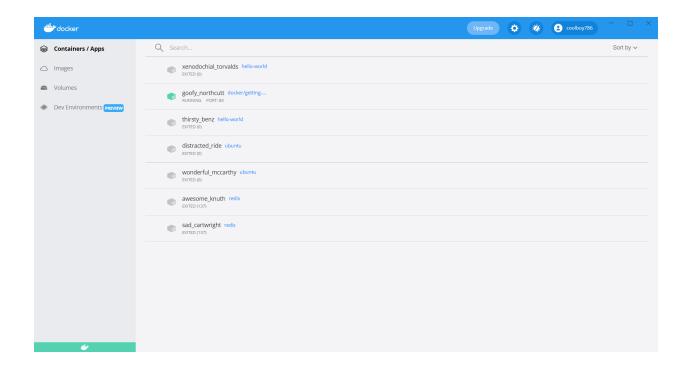


• Stop the docker container immediately. Docker stop command stops the container gracefully, that's the difference between a kill and stop commands.

>> docker kill 09ca6feb6efc[Container-ID]



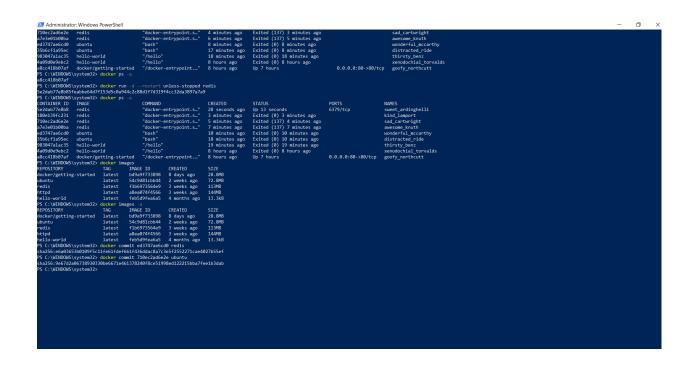
Container list after killing

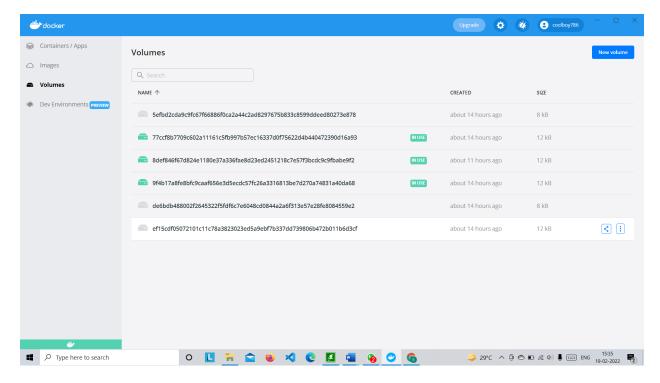


5. <u>Commit</u> - Save a new docker image with container id mentioned in the command on the local system

Save a new docker image with container id mentioned in the command on the local system. In the example below, geekflare is the username, and httpd_image is the image name.

>> docker commit 09ca6feb6efc[Container-id]
imagename





6. Access the docker container and run commands inside the container (We can access any server container)

Access the docker container and run commands inside the container.

>> docker exec -it 09ca6feb6efc[ID] bash

Here id means the id of the image which is allocated to the image when the image is downloaded

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Part-2

After executing the above commands and knowing about a few other docker commands we need to run a webserver with docker using various docker commands accordingly.

 Get detailed information about docker installed on the system including the kernel version, number of containers and images, etc.

```
>> docker info
```

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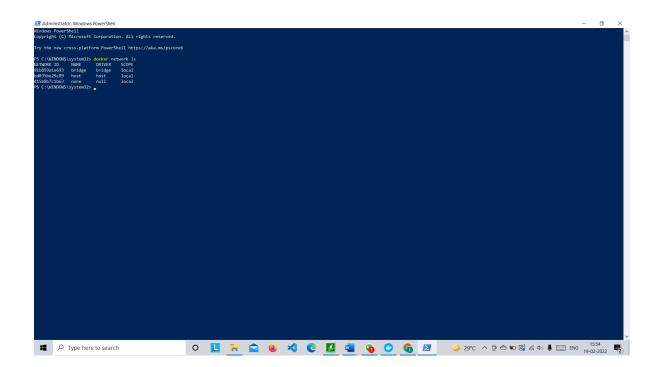
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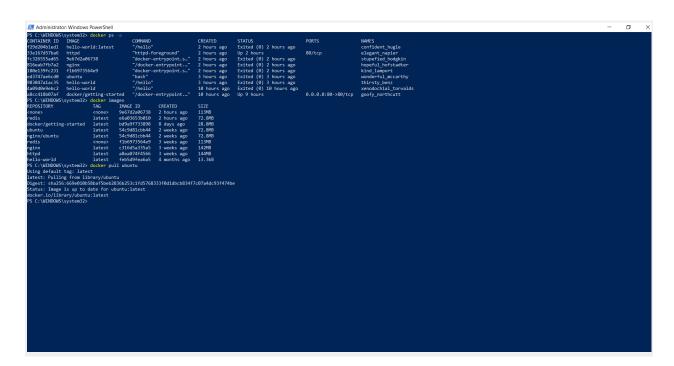
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- The following command in docker lists the details of all the networks in the cluster.
 - >> docker network 1s



• Pulling an image from docker hub

>> docker pull image-name[ubuntu]



Run the docker image mentioned in the command.
 This command will create a docker container in which the Apache HTTP server will run

```
>> docker run -it -d ubuntu [imagename]
```

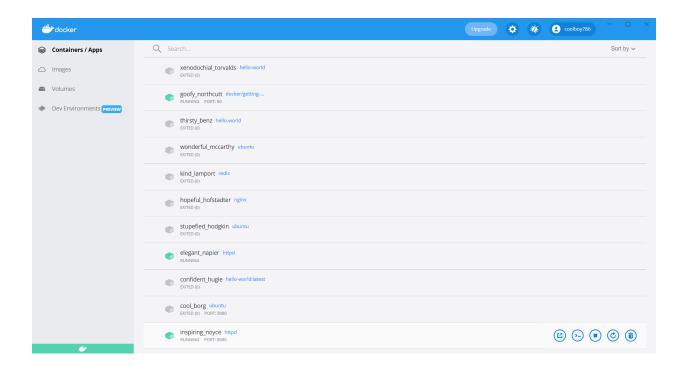
or

```
>> docker run -p port:port[8080:8080] ubuntu
[imagename]
```

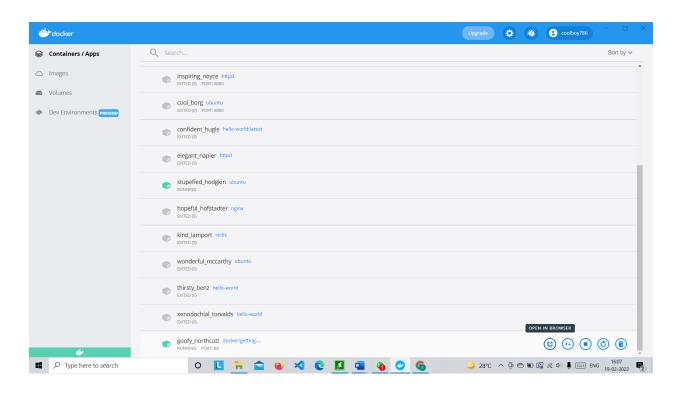
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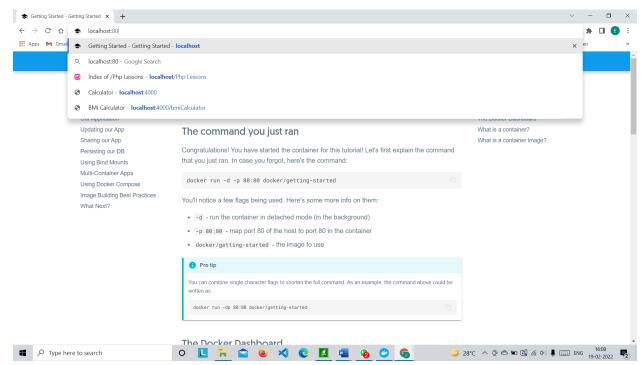
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```

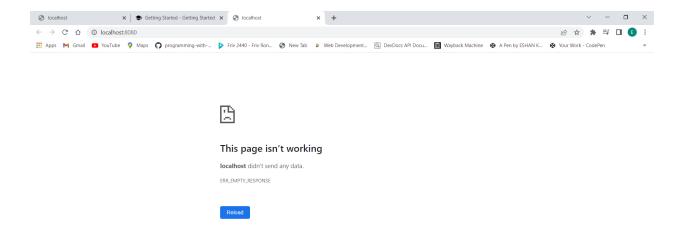
Checking running container list



• Open localhost:8080[port-number] on web browser







• stop the container and then at last delete the container.

>> docker stop 4ddd883f248344[Container-ID]

>> docker rm 4ddd883f248344[Container-ID]

