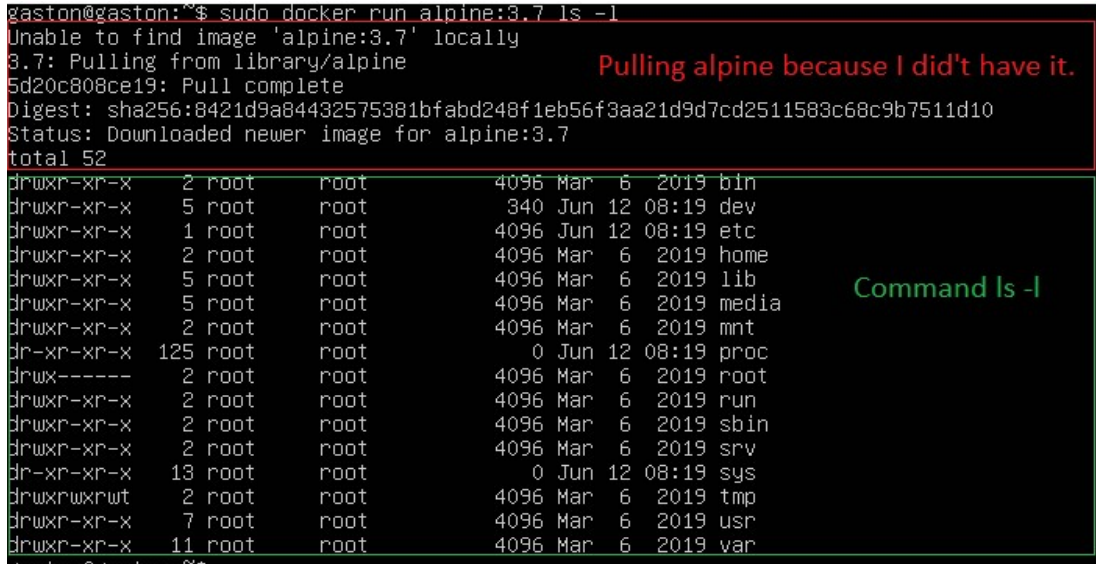
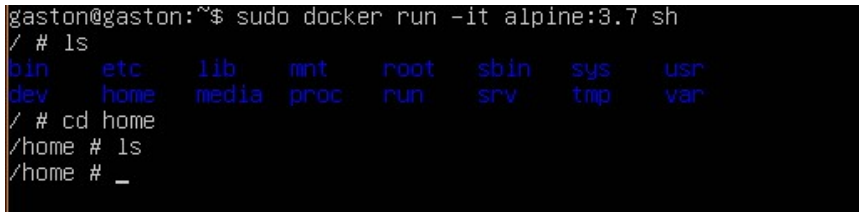

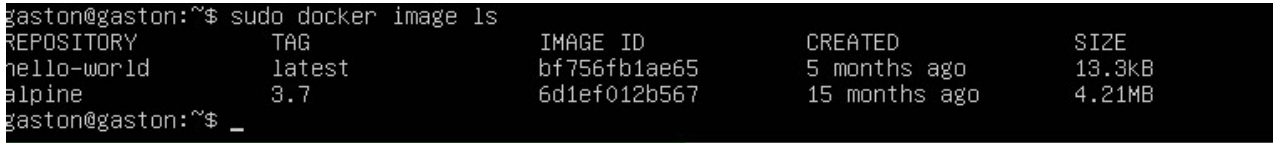
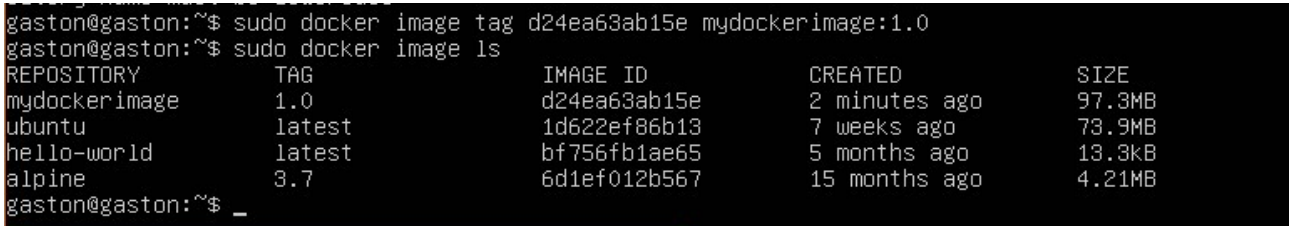


Command	Description	Key word
docker version	To show docker version	Version
docker ps	To show the containers that are running, you can run also docker ps -a head head = the last ten. a = Also the containers that they are not running.	Show
docker run nameOfTheImage	Run the container, example: docker run alpine:3.7 ls -l and I can see all the files 	Run
docker run -d nameOfTheImage	With -d I run the container and it continues running , we use -d when we run for example a nginx service.	Run
docker start idOfCointaner.	To start a container.	Start
docker stop idOfCointaner.	To stop a container.	Stop
docker rm idOfCointaner.	To remove a container.	Remove
docker pull nameOfTheImage	To download a docker image	Pull / Download
docker run -it nameOfTheImage sh docker run -it nameOfTheImage /bin/bash	To run a shell in the container. i = interactive 	Run
docker exec -it IdOfTheContainer sh docker exec -it IdOfTheContainer bin/bash	To execute a container that it is running.	Execute

docker commit IdOfTheContainer	<p>To create a new image with our changes. Example: I ran an alpine container, I installed new packages and then I close the container session, I can see the container that were running (docker ps -a) and create an image with the command commit. Other example, You can install in ubuntu image figlet and then create your own image and run it :</p>  <pre>gaston@gaston:~\$ sudo docker run mydockerimage:1.0 figlet "My image has figlet" My image has figlet gaston@gaston:~\$</pre> <p>In this example the image is taged with a name and version.</p>	commit
docker image ls docker images	<p>To show our images:</p>  <pre>gaston@gaston:~\$ sudo docker image ls REPOSITORY TAG IMAGE ID CREATED SIZE hello-world latest bf756fb1ae65 5 months ago 13.3kB alpine 3.7 6d1ef012b567 15 months ago 4.21MB gaston@gaston:~\$ _</pre>	Show
docker rmi idOfTheImage	To remove an image.	Remove
docker image tag IdOfTheImage	<p>To tag the image, you can run the command docker image tag IdOfTheImage myDockerImage:1.0 or docker image tag IdOfTheImage myDockerImage , if you don't especify the version the default is latest.</p>  <pre>gaston@gaston:~\$ sudo docker image tag d24ea63ab15e mydockerimage:1.0 gaston@gaston:~\$ sudo docker image ls REPOSITORY TAG IMAGE ID CREATED SIZE mydockerimage 1.0 d24ea63ab15e 2 minutes ago 97.3MB ubuntu latest 1d622ef86b13 7 weeks ago 73.9MB hello-world latest bf756fb1ae65 5 months ago 13.3kB alpine 3.7 6d1ef012b567 15 months ago 4.21MB gaston@gaston:~\$ _</pre>	Tag

docker system prune	<p>To clean all what you are not using:</p> <pre> gaston@gaston:~\$ sudo docker system prune WARNING! This will remove: - all stopped containers - all networks not used by at least one container - all dangling images - all dangling build cache Are you sure you want to continue? [y/N] y Deleted Containers: 44e7a2d5cd45543bfefa2eb94e3d16797fa5039ddd30230386affe5974e5197b 97757b94ef680c7cc385e5d9c84c5d3c91d47135f531af1879ef9665b445d609 d66e0807244293ca48f2a25e48141dfef922d4ea181fafd262288fa58b9d3aeb 64c00228d911b3236284350bd52954a4c0ecec52a46e12070b0756e8cbe01164 1aebc5f890e73f918d246c6413eb31f7eb1bf270730ddd6a02a637c9d3ed5c 5a146203fa525124b176924af64637a493abde137cc24d2b2cd11705bac29975 1c25e5c5eb485967c505344031b133ab8d43b819a2681f3b3b8585fb61bab352 664a4bdef87cfa6196727fcdce4f206110371f0300eb5dce40a4c5b88aa110a 9f03fb060fbf439c2c7bdf8d87d14a2f8313fd6134ed20d7ebfd10a2c40f1200 f35e977547a72ac7c3ae1d2fde6e762d8f1a70c5f39e333c73e85b6be0427d18 244dcd321170f5964323b494f81ebba5dd97ee8a4a7a4f922a3f5f34ad93d7bc c6191eeb18bb66aac8d837003355e3d7d7160ad75db64460ba0b0ec97156df9b 045509ff725e7d360b1be2195fbc30a9a80528599017365bccc091ec503030cb 6bb775d58c94643afd60236309833fbd0cfe0485800a73bf2e632e2b36f9199c 0246775a66995b54562c85e1858496cded203f3d853c430b2fc3d086ef1a23c6 d060cc7357ddf61f3c242ce9ba3da6258751932266104315479d4dfdaff9702d 47e489539980253994e1506126f43db49f8756a59ca91707187a816a4517d3f6 0d1ba17f4ffc311e66f6bc7f289671031021e64b8cad2b60d985579924b83735 0602b24ae985c9ed6918690f64044875ee6483abbc6326e2c2dd29bbd0e2e2f1 66e56785df6abab7b5398f9fe96db62f9d53e6ae4b46c7316fd3d0b8f405a7ba 0148e5985ae2cccdeffde6392139823fb175fb889f4f00ac1cc64d1dc4d6c705 24636c7b995f318fca2b72768886f7d23137da64fb1de880410a4d8230983eac Deleted Networks: docker_default Total reclaimed space: 66.72MB gaston@gaston:~\$ _ </pre>	Clean / Remove
docker inspect IdOfTheContainer	Give you information about the container (variables, ip , ports and more)	
docker cp	<p>To copy files from the container to the host or from the host to the container.</p> <pre> docker cp idOfTheContainer:/folderContainer/Subfolder/file.txt /home/gaston/folderhost/ docker cp /home/gaston/folderhost/file.txt idOfTheContainer:/folderContainer/Subfolder/ </pre>	Copy
docker add	<p>To add files from a url to the container.</p> <pre> docker add mysite.com/file /files/ </pre>	Add

Volume	<p>When you run a container, you can create a volume to save files in your host server, for example:</p> <pre>docker run -v home/gaston/docker/index.html:/usr/share/nginx/html/index.html:ro -d nginx:1.19.0</pre> <pre>docker run -v path_inside_the_host:path_inside_the_container:xx -d web_server_image:version</pre> <p>-v = volume -d = run and continue running. ro = read only</p>	Volume												
Ports	<p>To open a port you can add in the docker run a new parameter:</p> <pre>docker run -v home/gaston/docker/index.html:/usr/share/nginx/html/index.html:ro -p 8080:80 -d nginx:1.19.0</pre> <p>-p host_port:container_port</p> <p>A now you can check from your host server your site in the container.</p> <pre>gaston@gaston:~/docker\$ sudo docker ps</pre> <table><thead><tr><th>CONTAINER ID</th><th>IMAGE</th><th>NAMES</th><th>COMMAND</th><th>CREATED</th><th>STATUS</th></tr></thead><tbody><tr><td>1aebc5f890e7</td><td>nginx:1.19.0</td><td>practical_darwin</td><td>"/docker-entrypoint..."</td><td>2 minutes ago</td><td>Up 2 minutes</td></tr></tbody></table> <pre>gaston@gaston:~/docker\$ _</pre>	CONTAINER ID	IMAGE	NAMES	COMMAND	CREATED	STATUS	1aebc5f890e7	nginx:1.19.0	practical_darwin	"/docker-entrypoint..."	2 minutes ago	Up 2 minutes	Ports
CONTAINER ID	IMAGE	NAMES	COMMAND	CREATED	STATUS									
1aebc5f890e7	nginx:1.19.0	practical_darwin	"/docker-entrypoint..."	2 minutes ago	Up 2 minutes									

Docker compose

You can create a yaml script to work in a more organized way and then run the yaml to create the container:

```
gaston@gaston:~/docker$ cat docker-compose.yaml
version: '3.1'

services:
  wordpress:
    image: wordpress:5.4.2-php7.2-apache
    ports:
      - 8080:80
    environment:
      WORDPRESS_DB_HOST: mysql
      WORDPRESS_DB_USER: root
      WORDPRESS_DB_PASSWORD: root
      WORDPRESS_DB_NAME: wordpress
    links:
      - mysql:mysql #create a line in the host wordpress container to reference the
                    #ip of the mysql container, to avoid issues if the ip changes

  mysql:
    image: mysql:8.0.20
    command: --default-authentication-plugin=mysql_native_password
    environment:
      MYSQL_DATABASE: wordpress
      MYSQL_ROOT_PASSWORD: root
    volumes:
      - /home/gaston/mysql-data:/var/lib/mysql
gaston@gaston:~/docker$
```

And then run your yaml script with the command docker-compose up -d

```
gaston@gaston:~/docker$ sudo docker-compose up -d
Starting docker_mysql_1 ... done
Starting docker_wordpress_1 ... done
gaston@gaston:~/docker$ sudo docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS
PORTS         NAMES
d66e08072442   wordpress:5.4.2-php7.2-apache       "docker-entrypoint.s..." 6 minutes ago   Up
13 seconds    0.0.0.0:8080->80/tcp                 docker_wordpress_1
64c00228d911   mysql:8.0.20                        "docker-entrypoint.s..." 6 minutes ago   Up
18 seconds    3306/tcp, 33060/tcp                 docker_mysql_1
gaston@gaston:~/docker$
```

As you can see , you have 2 containers, one with mysql and the other with wordpress.

Docker compose