

# Docker Tasks

## First Task

1. Create a docker container using busybox.

```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker run -it busybox:1.37  
/ #
```

2. Create two files within busybox.

```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker run -it busybox:1.37  
/ # ls  
bin      dev      etc      home     lib      lib64    proc     root     sys      tmp      usr      var  
/ # touch un.txt  
/ # touch dous.html  
/ # ls  
bin      dous.html  home     lib64     root     tmp      usr  
dev      etc       lib      proc      sys      un.txt   var  
/ #
```

3. Create a new image with the updated container. Call this image your\_user/busybox.

```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker ps -a  
CONTAINER ID   IMAGE          COMMAND      CREATED      STATUS      PORTS      NAMES  
55cf39e1ef26   busybox:1.37   "sh"        About a minute ago   Exited (0) 20 seconds ago           relaxed_leavitt  
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker commit 55cf39e1ef26 a24christianvd/busybox  
sha256:a7baca8a16f39e05836a9be49aa4bc46aa8d36b835749c1f249e996fc2dcd7e7
```

4. Create and run a container using this new image. Connect to this container and check that the files you had created are in this image.

```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker image ls  
REPOSITORY          TAG          IMAGE ID      CREATED      SIZE  
a24christianvd/busybox   latest       a7baca8a16f3  52 seconds ago  4.43MB  
dockerapp-master-dockerapp  latest       cefe48a423c2  25 hours ago  882MB  
dockerapp             v0.1        6e353ae3de44  2 days ago  881MB  
debian                12          a26cab9e734a  11 days ago  117MB  
tomcat                latest       a79522cb3b39  13 days ago  468MB  
hello-world           latest       1b44b5a3e06a  5 weeks ago  10.1kB  
busybox               1.37        0ed463b26dae  11 months ago  4.43MB  
redis                 3.2.0       43c923d57784  9 years ago  194MB  
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker run -it a24christianvd/busybox:latest  
/ # ls  
bin      dous.html  home     lib64     root     tmp      usr  
dev      etc       lib      proc      sys      un.txt   var  
/ #
```

5. Check the images and containers running on your system.

```
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
a24christianvd/busybox latest          a7baca8a16f3   About a minute ago 4.43MB
dockerapp-master-dockerapp latest          cefe48a423c2   25 hours ago    882MB
dockerapp            v0.1           6e353ae3de44   2 days ago      881MB
debian               12             a26cab9e734a   11 days ago     117MB
tomcat               latest          a79522cb3b39   13 days ago     468MB
hello-world          latest          1b44b5a3e06a   5 weeks ago     10.1kB
busybox              1.37           0ed463b26dae   11 months ago   4.43MB
redis                 3.2.0          43c923d57784   9 years ago     194MB

a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND          CREATED        STATUS      PORTS          NAMES
d2e5220dae34   a24christianvd/busybox:latest       "sh"            35 seconds ago Exited (127) 16 seconds ago   pensive_golick
55cf39e1ef26   busybox:1.37                       "sh"            3 minutes ago  Exited (0) 2 minutes ago     relaxed_leavitt
```

6. Delete the image and the container.

```
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
d2e5220dae34822df9e40b71248074892efa03211ed2e8137dd0bbc5d2d73718
55cf39e1ef268485e622c82b8f8977c1790b6d6ba732b77a16cf88d543c3cad4

Total reclaimed space: 92B
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker image rm a24christianvd/busybox:latest
Untagged: a24christianvd/busybox:latest
Deleted: sha256:a7baca8a16f39e05836a9be49aa4bc46aa8d36b835749c1f249e996fc2dcd7e7
Deleted: sha256:1390b1215fdb7d57220fc56fb148978de0baae863997aff5967937965ad1a6bf
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
dockerapp-master-dockerapp latest          cefe48a423c2   25 hours ago    882MB
dockerapp            v0.1           6e353ae3de44   2 days ago      881MB
debian               12             a26cab9e734a   11 days ago     117MB
tomcat               latest          a79522cb3b39   13 days ago     468MB
hello-world          latest          1b44b5a3e06a   5 weeks ago     10.1kB
busybox              1.37           0ed463b26dae   11 months ago   4.43MB
redis                 3.2.0          43c923d57784   9 years ago     194MB

a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND          CREATED        STATUS      PORTS          NAMES
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$
```

## Second Task

7. Create a Dockerfile that does the previous tasks.

```
GNU nano 7.2 Dockerfile
FROM busybox:1.37
RUN touch un.txt
RUN touch dous.html
```

8. Create a new image called your\_user/busybox and run the container.

```
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker build -t a24christianvd/busybox
[+] Building 0.4s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> == transferring dockerfile: 92B
=> [internal] load metadata for docker.io/library/busybox:1.37
=> [internal] load .dockerignore
=> == transferring context: 2B
=> [1/3] FROM docker.io/library/busybox:1.37
=> [2/3] RUN touch un.txt
=> [3/3] RUN touch dous.html
=> exporting to image
=> == exporting layers
=> == writing image sha256:17daa015743e16fb43d063d1fef7daca1f55bf0ff9fcab7caa84de2dc6204423
=> == naming to docker.io/a24christianvd/busybox

a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND          CREATED        STATUS      PORTS          NAMES
a24christianvd@a01eq103:~/Documentos/Contorno_Servidor$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
a24christianvd/busybox latest          17daa015743e   15 seconds ago 4.43MB
dockerapp-master-dockerapp latest          cefe48a423c2   25 hours ago    882MB
dockerapp            v0.1           6e353ae3de44   2 days ago      881MB
debian               12             a26cab9e734a   11 days ago     117MB
tomcat               latest          a79522cb3b39   13 days ago     468MB
hello-world          latest          1b44b5a3e06a   5 weeks ago     10.1kB
busybox              1.37           0ed463b26dae   11 months ago   4.43MB
redis                 3.2.0          43c923d57784   9 years ago     194MB
```



```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
a24christianvd/busybox latest       17daa015743e 15 seconds ago 4.43MB
dockerapp-master-dockerapp latest       cefe48a423c2 25 hours ago   882MB
dockerapp            v0.1        6e353ae3de44 2 days ago     881MB
debian              12         a26cab9e734a 11 days ago    117MB
tomcat              latest      a79522cb3b39 13 days ago    468MB
hello-world         latest      1b44b5a3e06a 5 weeks ago    10.1kB
busybox             1.37       0ed463b26dae 11 months ago  4.43MB
redis               3.2.0      43c923d57784 9 years ago    194MB

a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker run -it a24christianvd/busybox:latest
/ # ls
bin      dous.html  home      lib64     root      tmp        usr
dev      etc        lib       proc      sys       un.txt     var
/ #
```

9. Check the images and containers running on your system.

```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
a24christianvd/busybox latest       17daa015743e 2 minutes ago  4.43MB
dockerapp-master-dockerapp latest       cefe48a423c2 25 hours ago   882MB
dockerapp            v0.1        6e353ae3de44 2 days ago     881MB
debian              12         a26cab9e734a 11 days ago    117MB
tomcat              latest      a79522cb3b39 13 days ago    468MB
hello-world         latest      1b44b5a3e06a 5 weeks ago    10.1kB
busybox             1.37       0ed463b26dae 11 months ago  4.43MB
redis               3.2.0      43c923d57784 9 years ago    194MB

a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND      CREATED        STATUS      PORTS      NAMES
5e17df5bf7c3   a24christianvd/busybox:latest       "sh"        22 seconds ago Exited (0) 3 seconds ago              strange_rosalind
```

10. Delete the image and the container.

```
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
5e17df5bf7c3aa929b66a577558c616aaedb88712c56832079c9198895e75783

Total reclaimed space: 8B
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker image rm a24christianvd/busybox:latest
Untagged: a24christianvd/busybox:latest
Deleted: sha256:17daa015743e16fb43d063d1fef7daca1f55bf0ff9fcab7caa84de2dc6204423
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND      CREATED        STATUS      PORTS      NAMES
a24christianvd@a01eql03:~/Documentos/Contorno_Servidor$ docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
dockerapp-master-dockerapp latest       cefe48a423c2 25 hours ago   882MB
dockerapp            v0.1        6e353ae3de44 2 days ago     881MB
debian              12         a26cab9e734a 11 days ago    117MB
tomcat              latest      a79522cb3b39 13 days ago    468MB
hello-world         latest      1b44b5a3e06a 5 weeks ago    10.1kB
busybox             1.37       0ed463b26dae 11 months ago  4.43MB
redis               3.2.0      43c923d57784 9 years ago    194MB
```