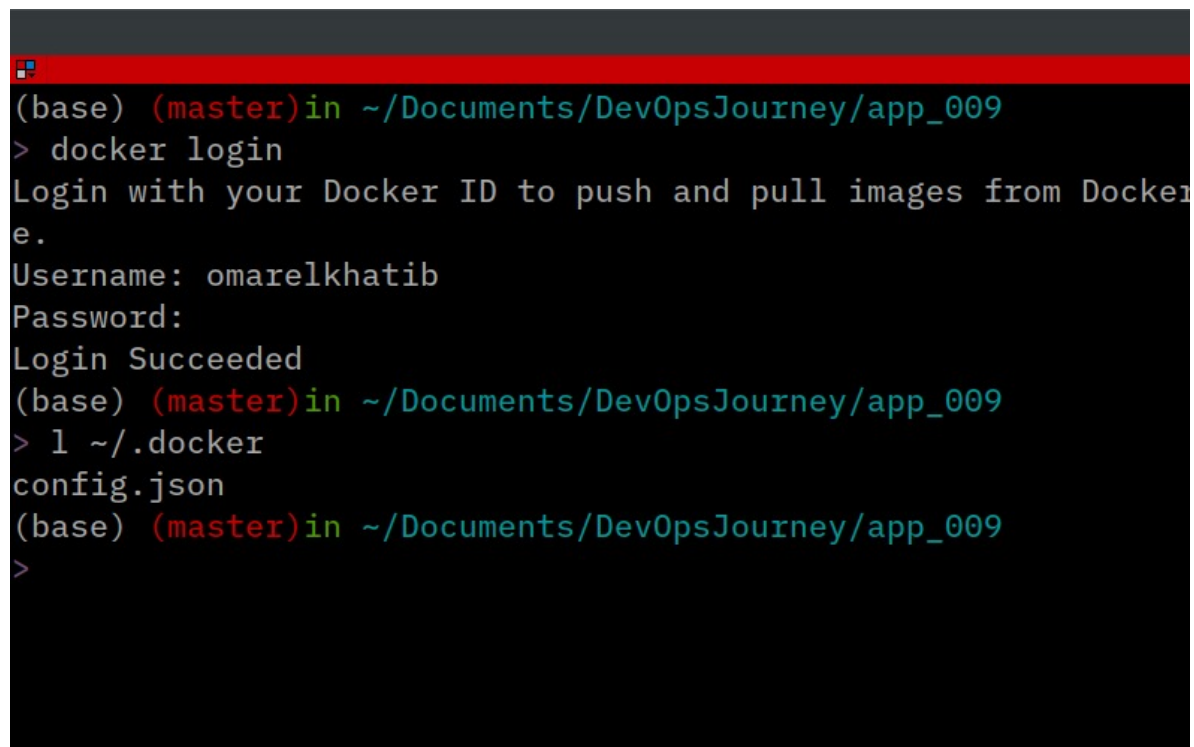# #012 Upload to Docker hub

Introduction

this is part 12 from the journey it's a long journey(360 day) so go please check previous parts , and if you need to walk in the journey with me please make sure to follow because I may post more than once in 1 Day but surely I will post daily at least one ☺.

And I will cover lot of tools as we move on.

Preparation

first login

```
docker login
ls ~/.docker
```


you only need to login once the docker will be saved locally inside home/username/.docker/config.json

now let's prepare our image to uploaded it

```
docker image tag app_009_1 your_username_here/app_009_1:latest
docker image ls
```

```
                                                              /bin/bash
                                                     upload to docker hub
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image tag app_009_1 omarelkhatib/app_009_1:latest
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image ls
REPOSITORY               TAG             IMAGE ID        CREATED           SIZE
omarelkhatib/app_009_1   latest          c3a5aa66659c    37 seconds ago    83MB
app_009_1                latest          c3a5aa66659c    37 seconds ago    83MB
<none>                   <none>          9bf1c30c534b    43 hours ago      77.7MB
<none>                   <none>          da4ea3800722    43 hours ago      77.7MB
<none>                   <none>          650a0161cf8d    43 hours ago      77.7MB
<none>                   <none>          c8a238d4f3eb    43 hours ago      83MB
<none>                   <none>          63b849d01559    43 hours ago      77.7MB
python                   3.9-rc-alpine   a206803e6cb1    2 days ago        77.7MB
alpine                   latest          a24bb4013296    2 weeks ago       5.57MB
postgres                 latest          adf2b126dda8    4 weeks ago       313MB
barja_census_web         latest          6772fbd0a67a    5 weeks ago       276MB
<none>                   <none>          9f8737d25992    8 weeks ago       224MB
hello-world              latest          bf756fb1ae65    5 months ago      13.3kB
postgres                 11.5-alpine     da01ecfbabe1    7 months ago      71.8MB
python                   3.7.4-alpine    f309434dea3a    8 months ago      98.7MB
(base) (master)in ~/Documents/DevOpsJourney/app_009
>
```

replace your_username_here with your account username.
we can notice both have same image ID this what tag do
it link a new image with a new tag to an old one.

now after we have image ready let's move to next step.

Upload it

```
docker image push your_username_here/app_009_1:latest
```

again replace your_username_here with your account username.
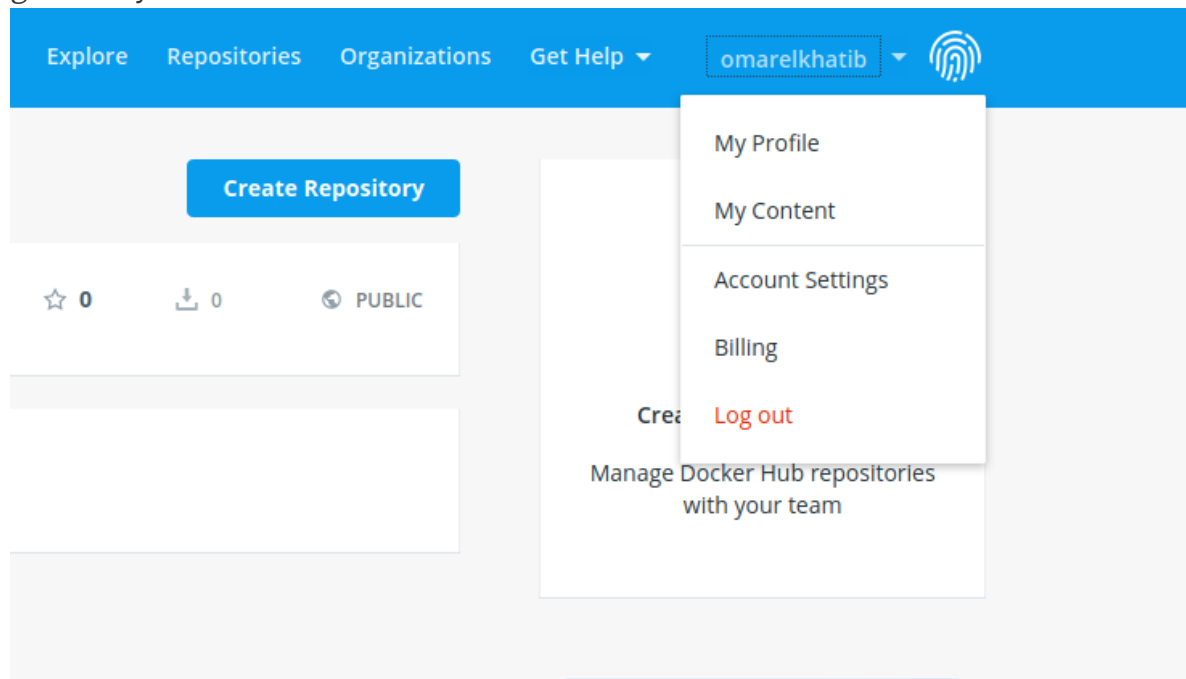in my case it's omarelkhatib

```
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image push omarelkhatib/app_009_1:latest
The push refers to repository [docker.io/omarelkhatib/app_009_1]
bcbb62ba2cac: Pushed
12661fc0ecbd: Pushed
3d8339789bee: Pushed
91e92efef661: Pushed
d6cb2205cf36: Mounted from library/python
931eea053cbd: Mounted from library/python
e890da6f188d: Mounted from library/python
408e53c5e3b2: Mounted from library/python
50644c29ef5a: Mounted from library/python
latest: digest: sha256:97c06bca065c80161bd21b65ed7fbfaffd857c38f5188621d817b4c0831b47a9 size: 2200
(base) (master)in ~/Documents/DevOpsJourney/app_009
>
```
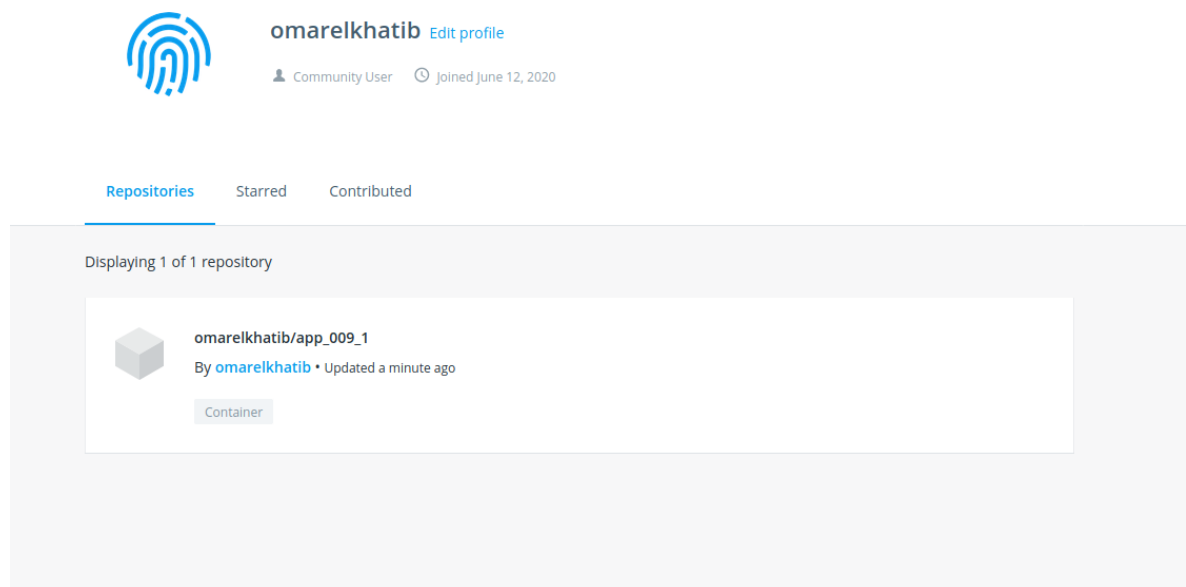
and done it's now on docker hub easy!!

Get it from the hub again

go to "My Profile"

and here we find it!

click on it

omarelkhatib/app_009_1 ☆

By omarelkhatib • Updated a minute ago

Container

⬇ Pulls 0

Manage Repository

| Overview | Tags |

No overview available

This repository doesn't have an overview

Docker Pull Command

```
docker pull omarelkhatib/app_009_1
```

Owner

omarelkhatib

now it's time to clear the image and get it this time from the hub

```
/bin/bash
                                          upload to docker hub
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image ls
REPOSITORY              TAG             IMAGE ID        CREATED         SIZE
app_009_1               latest          c3a5aa66659c    3 minutes ago   83MB
omarelkhatib/app_009_1  latest          c3a5aa66659c    3 minutes ago   83MB
<none>                  <none>          9bf1c30c534b    43 hours ago    77.7MB
<none>                  <none>          da4ea3800722    43 hours ago    77.7MB
<none>                  <none>          650a0161cf8d    43 hours ago    77.7MB
<none>                  <none>          c8a238d4f3eb    43 hours ago    83MB
<none>                  <none>          63b849d01559    43 hours ago    77.7MB
python                  3.9-rc-alpine   a206803e6cb1    2 days ago      77.7MB
alpine                  latest          a24bb4013296    2 weeks ago     5.57MB
postgres                latest          adf2b126dda8    4 weeks ago     313MB
barja_census_web        latest          6772fbd0a67a    5 weeks ago     276MB
<none>                  <none>          9f8737d25992    8 weeks ago     224MB
hello-world             latest          bf756fb1ae65    5 months ago    13.3kB
postgres                11.5-alpine     da01ecfbabe1    7 months ago    71.8MB
python                  3.7.4-alpine    f309434dea3a    8 months ago    98.7MB
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image rm -f c3a5
Untagged: app_009_1:latest
Untagged: omarelkhatib/app_009_1:latest
Untagged: omarelkhatib/app_009_1@sha256:97c06bca065c80161bd21b65ed7fbfaffd857c38f5188621d817b4c0831b47a9
Deleted: sha256:c3a5aa66659ccc0f3da2aff5350302d64635c47b5402f378c63186c23c70ded1
Deleted: sha256:3981bd4fb8d69c11ace49e70fe0f74fec584bdce8b9fa32e921c34b7362039ad
Deleted: sha256:65a266d0c3ebd4dc895d3ea34af5b07c54fe8ad577bf5fe30c95fe36071332f4
Deleted: sha256:05335357ca58a9be53caf94b31f06b185b6df203374543fdae315ac4831ca984
Deleted: sha256:ad2690464aa672fe350f25b88e4f27e9e2f98cf8667f35defce094df0f32d37a
Deleted: sha256:29af810b61579b177e748680a1d20b05dffced8764d93314f5b9cc78446e26e6
Deleted: sha256:8f8860817c885fe1fb87c88a9e990c6a678ccfcfbb5587c907472ad35194b587
Deleted: sha256:3b8d2d9033b10d45eec96253f288ed7cf54a5b81bd9f71b3a69a9f720526814b
(base) (master)in ~/Documents/DevOpsJourney/app_009
>
```

first run

```
docker image ls
```

copy first 4 letters of IMAGE ID

```
docker image rm -f c3a5
```

c3a5 are first 4 letters

rm -f it's force delete so if it's referenced to a container it will force delete it.

now run again

```
docker image ls
```

```
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image ls
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
<none>              <none>              9bf1c30c534b        43 hours ago        77.7MB
<none>              <none>              da4ea3800722        43 hours ago        77.7MB
<none>              <none>              650a0161cf8d        43 hours ago        77.7MB
<none>              <none>              c8a238d4f3eb        43 hours ago        83MB
<none>              <none>              63b849d01559        43 hours ago        77.7MB
python              3.9-rc-alpine       a206803e6cb1        2 days ago          77.7MB
alpine              latest              a24bb4013296        2 weeks ago         5.57MB
postgres            latest              adf2b126dda8        4 weeks ago         313MB
barja_census_web    latest              6772fbd0a67a        5 weeks ago         276MB
<none>              <none>              9f8737d25992        8 weeks ago         224MB
hello-world         latest              bf756fb1ae65        5 months ago        13.3kB
postgres            11.5-alpine         da01ecfbabe1        7 months ago        71.8MB
python              3.7.4-alpine        f309434dea3a        8 months ago        98.7MB
(base) (master)in ~/Documents/DevOpsJourney/app_009
>
```

as we see they got removed

to get it from docker hub run

```
docker pull your_username_here/app_009_1
```

Again replace *your_username_here* with your username

```
                                        /bin/bash
                                    upload to docker hub
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker pull omarelkhatib/app_009_1
Using default tag: latest
latest: Pulling from omarelkhatib/app_009_1
df20fa9351a1: Already exists
36b3adc4ff6f: Already exists
7945d0fd0432: Already exists
5158b07ba291: Already exists
5f9539c9fad3: Already exists
9ec2632769c2: Already exists
f947fbd26a3c: Pull complete
300026b3c6ce: Pull complete
f4122599e86c: Pull complete
Digest: sha256:97c06bca065c80161bd21b65ed7fbfaffd857c38f5188621d817b4c0831b47a9
Status: Downloaded newer image for omarelkhatib/app_009_1:latest
docker.io/omarelkhatib/app_009_1:latest
(base) (master)in ~/Documents/DevOpsJourney/app_009
> docker image ls
REPOSITORY              TAG             IMAGE ID            CREATED             SIZE
omarelkhatib/app_009_1  latest          c3a5aa66659c        5 minutes ago       83MB
<none>                  <none>          9bf1c30c534b        43 hours ago        77.7MB
<none>                  <none>          da4ea3800722        43 hours ago        77.7MB
<none>                  <none>          650a0161cf8d        43 hours ago        77.7MB
<none>                  <none>          c8a238d4f3eb        43 hours ago        83MB
<none>                  <none>          63b849d01559        43 hours ago        77.7MB
python                  3.9-rc-alpine   a206803e6cb1        2 days ago          77.7MB
alpine                  latest          a24bb4013296        2 weeks ago         5.57MB
postgres                latest          adf2b126dda8        4 weeks ago         313MB
barja_census_web        latest          6772fbd0a67a        5 weeks ago         276MB
<none>                  <none>          9f8737d25992        8 weeks ago         224MB
hello-world             latest          bf756fb1ae65        5 months ago        13.3kB
postgres                11.5-alpine     da01ecfbabe1        7 months ago        71.8MB
python                  3.7.4-alpine    f309434dea3a        8 months ago        98.7MB
(base) (master)in ~/Documents/DevOpsJourney/app_009
>
```

```
docker image ls
```

and voila! we got our image from the hub :)