

# Docker Commit Images

Committing your changes to the container, just like committing code.





We'll cover the following ^

- Docker commit

In the last lesson, we got access to the shell of the container and were able to run commands. Since we can use the container as a normal Linux machine, let's work in it exactly as we work in any normal Linux machine.

## Docker commit #

To commit changes to the container and create a new image from it, we need to change something in a container. We will not make this complex to work with. We will simply create a Python program that will print today's date and run it. After that, we will commit the changes and it will create a new image for us, which will have our Python program in it forever.

<p>main.sh</p> <p>todays_date.py</p>	<p>All code files are copied to end of the page...</p>
<div></div>	

In the first line of the program, we `import` the `datetime` module so that `utcnow()` function can be used. If you are not aware of Python's `datetime` module, it contains a `datetime` file with all the functions in it and `print` is the module's built-in function.

What is the use of commit? As discussed in the first section, sharing code with someone else with a different environment can lead to bugs.

When you commit the container, a new image is created and you can push that image to the registry. Anybody can fetch the image and will have the same code with a consistent environment. This also helps in deployment as well.

Let's commit the container now. Exit the bash by typing `$exit`.

Then, commit the container by `$docker commit -m "<commit message>" <container_id/name> <new_image_name>:<version>`,

```
(base) adminisatorsmbp:~ venkateshachintalwar$ docker commit -m "Added today's date file" 287ab2351sha256:a9d24607e9d74c58c6469f1c33049e0a8dc459617fe8b40e7d9a866ef9cb705d
```

Now, if you can see the images on your system by typing `$docker images`.

```
(base) adminisatorsmbp:~ venkateshachintalwar$ docker images
```

REPOSITORY	SIZE	TAG	IMAGE ID	CREATED
date_project		1.0	a9d24607e9d7	9 seconds ago
o	935MB			

Next, you should push your image to your Docker Hub account so that anybody can access it.

Steps to push:

- Docker login
- Docker tag <image\_name> <your\_docker\_hub\_username>/<image>:<version>
- Docker push <your\_docker\_hub\_username>/<image>:<version>

```
(base) adminisatorsmbp:~ venkateshachintalwar$ docker tag date_project:1.0 venky8283/date_project:1.0
```

```
(base) adminisatorsmbp:~ venkateshachintalwar$ docker push venky8283/date_project:1.0
```

The push refers to repository [docker.io/venky8283/date\_project]

81b8d325bd3c: Pushed

ee233c385da7: Pushed

697417af5469: Pushed

536e7dafa51d: Pushed

69e209e74949: Pushed

3bfeb766f97b: Pushed

ea1227feeccb: Pushed

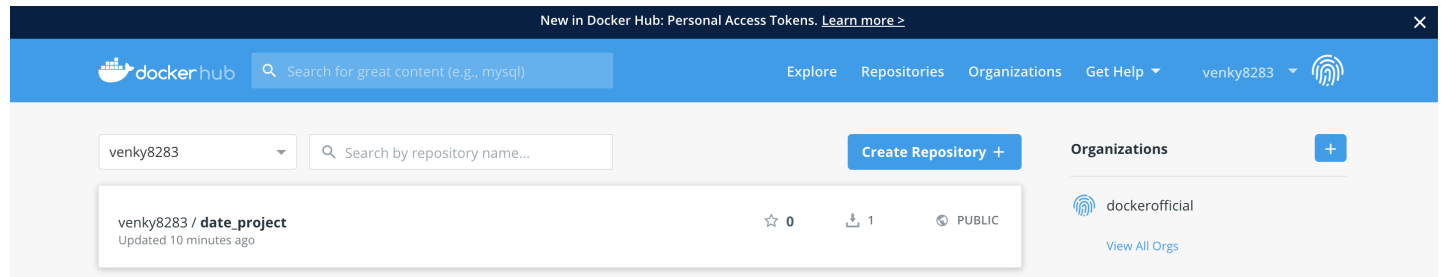
9cae1895156d: Pushed

52dba9daa22c: Pushed

78c1b9419976: Pushed

1.0: digest: sha256:a7f7f56a77a5d621757a9d53f241a2263a11f919bf92b827d85e9394458234f9 size: 2429

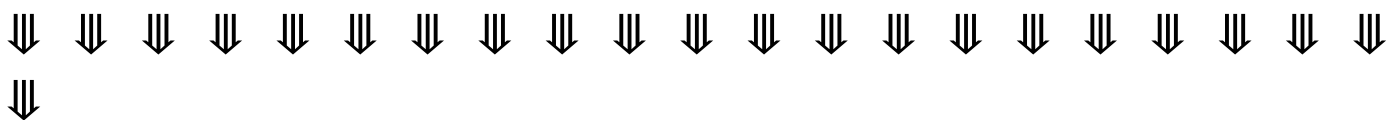
If everything goes well, log into your Docker Hub account and you should be able to see your pushed image.



Ask your friends to run your image. Anyone can pull that image and run it, since it is public.

In the next lesson, we will see how you can connect your host machine's file system with the container's file system.

## Code Files Content !!!



```
-----  
|  main.sh [1]  
-----
```

```
python3  todays_date.py
```

```
-----  
|  todays_date.py [1]  
-----
```

```
from datetime import datetime  
print("Today's date is "+ datetime.utcnow().strftime("%Y-%m-%d"))
```

\*\*\*\*\*