

Setting up the environment

Once you have installed Docker on your computer, you need to download the configuration files.

If you use git, you can run the command:

```
git clone https://gitlab.doc.ic.ac.uk/theinis/dockerdm.git
```

If you don't use git, you can download the files as a zip here:

<https://gitlab.doc.ic.ac.uk/theinis/dockerdm>

Then open a terminal inside the dockerdm folder and run the command:

```
docker-compose up
```

If you are using the Docker Toolbox installation, you need to use the same terminal that you opened when clicking on "Docker QuickStart Terminal"

```
$ docker-compose up
Starting mongo ... done
Starting pyspark_mongodb_nb ... done
Starting mongoadmin ... done
Attaching to mongo, mongoadmin, pyspark_mongodb_nb
mongo      | 2019-05-15T14:43:14.199+0000 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProto
mongo      | 2019-05-15T14:43:14.203+0000 I CONTROL [initandlisten] MongoDB starting : pid=1 port=27017 dbpath=/data/db 64-bit host=977b30f174
mongo      | 2019-05-15T14:43:14.203+0000 I CONTROL [initandlisten] db version v4.0.9
mongo      | 2019-05-15T14:43:14.203+0000 I CONTROL [initandlisten] git version: fc525e2d9b0e4bceff5c2201457e564362909765
mongo      | 2019-05-15T14:43:14.204+0000 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.2g 1 Mar 2016
mongo      | 2019-05-15T14:43:14.204+0000 I CONTROL [initandlisten] allocator: tcmalloc
mongo      | 2019-05-15T14:43:14.204+0000 I CONTROL [initandlisten] modules: none
mongo      | 2019-05-15T14:43:14.204+0000 I CONTROL [initandlisten] build environment:
```

The first time you run the command it will install all the required dependencies so it might take some time. Once it finishes, you can check if everything is running correctly by using the command:

```
docker ps -a
```

CONTAINER ID	IMAGE	NAMES	COMMAND	CREATED	STATUS	PORTS
3962e33b7c6e	dmecw_jupyter		"tini -- start-noteb..."	35 minutes ago	Up 34 minutes	0.0.0.0:4040-4080->4040-4080/tcp, 0.0.0.0:8888->8888/tcp
7727fd34364c	mongo-express		"tini -- /docker-ent..."	2 hours ago	Up 34 minutes	0.0.0.0:8081->8081/tcp
977b30f17426	mongo		"docker-entrypoint.s..."	2 hours ago	Up 34 minutes	0.0.0.0:27017->27017/tcp

Now if you enter the following url in your browser:

- Docker Destop: <http://localhost:8888>
- Docker Toolbox: <http://192.168.99.100:8888>

You should access the jupyter notebook page:

Select items to perform actions on them.

Upload New ↕

<input type="checkbox"/>	▼	🏠	
<input type="checkbox"/>	📁	spark-warehouse	
<input type="checkbox"/>	📁	work	
<input type="checkbox"/>	📄	HW1.ipynb	Running
<input type="checkbox"/>	📄	HW2.ipynb	
<input type="checkbox"/>	📄	HW2-import.py	