



SSW 2021 – Updated installation instructions

Hi all! We're excited to share QuakeMigrate with you in the live demonstration tomorrow!

We have slightly changed the plan – instead of requiring everyone to handle all of the operating system differences (in particular compilers and installing NonLinLoc), we have created a Docker image that contains everything required to run the live demonstration. As such, it would be useful if everyone could download [Docker](https://www.docker.com/) (https://www.docker.com/, 500MB). A link to the image (~800MB) will be made available in the QuakeMigrate demo slack channel later today. If the download sizes are prohibitive, the official installation instructions remain valid. If you have already installed QuakeMigrate using the official instructions, we will also provide a separate link to the demonstration notebook and required metadata files.

Once you have downloaded and installed Docker and downloaded the image, you need to open a new terminal (or PowerShell on Windows), navigate to the downloaded image and run (**note**: you may need to do this as root e.g. prepend `sudo` to the following commands):

```
docker load -i quakemigrate-ssw.tar
```

to load the image, followed by:

```
docker run -p 8888:8888 quakemigrate-ssw
```

Which creates a container for the image and links relevant ports. You can then copy the URL into any browser to load the Jupyter Lab session.

```
* user@pc: sudo docker load -i quakemigrate-ssw.tar
Loaded image: quakemigrate-ssw:latest
> user@pc: sudo docker run -p 8888:8888 quakemigrate-ssw
[I 2021-03-22 12:48:49.374 ServerApp] JupyterLab | extension was successfully linked.
[I 2021-03-22 12:48:49.386 ServerApp] Writing notebook server cookie secret to /root/.local/share/jupyter/runtime/jupyter_cookie_secret
[I 2021-03-22 12:48:49.634 ServerApp] nbclassic | extension was successfully linked.
[I 2021-03-22 12:48:49.658 LabApp] JupyterLab extension loaded from /opt/venv/lib/python3.8/site-packages/jupyterlab
[I 2021-03-22 12:48:49.658 LabApp] JupyterLab application directory is /opt/venv/share/jupyter/lab
[I 2021-03-22 12:48:49.662 ServerApp] jupyterlab | extension was successfully loaded.
[I 2021-03-22 12:48:49.666 ServerApp] nbclassic | extension was successfully loaded.
[I 2021-03-22 12:48:49.667 ServerApp] Serving notebooks from local directory: /ssw
[I 2021-03-22 12:48:49.667 ServerApp] Jupyter Server 1.4.1 is running at:
[I 2021-03-22 12:48:49.667 ServerApp] http://e4549a2f38f4:8888/lab?token=73434d7b42f401c1c31e649e1ab656fc21756c68b4b1351c
[I 2021-03-22 12:48:49.667 ServerApp] or http://127.0.0.1:8888/lab?token=73434d7b42f401c1c31e649e1ab656fc21756c68b4b1351c
[I 2021-03-22 12:48:49.667 ServerApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 2021-03-22 12:48:49.670 ServerApp] No web browser found: could not locate runnable browser.
[C 2021-03-22 12:48:49.670 ServerApp]

To access the server, open this file in a browser:
file:///root/.local/share/jupyter/runtime/jpserver-1-open.html
Or copy and paste one of these URLs:
http://e4549a2f38f4:8888/lab?token=73434d7b42f401c1c31e649e1ab656fc21756c68b4b1351c
or http://127.0.0.1:8888/lab?token=73434d7b42f401c1c31e649e1ab656fc21756c68b4b1351c
```

What is Docker?

Docker is a set of platform as a service products that use OS-level virtualisation to deliver software in packages called containers. Containers are isolated from one another and bundle their own software, libraries and configuration files; they can communicate with each other through well-defined channels. (From Wikipedia)

Do get in touch if you have any issues, either on the SSW slack channel or via email:

Conor – conor.bacon@esc.cam.ac.uk

Tom – tom.winder@esc.cam.ac.uk