# Build a new Docker image

The following is an example of how to update the DAFoam repo in Docker and save it as a new Docker image. First, create a file called **Dockerfile**, copy and paste the following commands into Dockerfile, and run docker build -t my\_new\_dafoam\_image\_name .. Here “dafoam/opt-packages:latest” can be any existing Docker image.

FROM dafoam/opt-packages:latest

# Swith to dafoamuser

USER dafoamuser

# compile

RUN . /home/dafoamuser/dafoam/loadDAFoam.sh && \

cd $DAFOAM\_ROOT\_PATH/repos && \

git clone https://github.com/mdolab/dafoam && \

cd dafoam && \

. $DAFOAM\_ROOT\_PATH/OpenFOAM/OpenFOAM-v1812/etc/bashrc && \

./Allmake 2> log.txt && \

. $DAFOAM\_ROOT\_PATH/OpenFOAM/OpenFOAM-v1812-ADR/etc/bashrc && \

./Allclean && \

./Allmake 2> log.txt && \

. $DAFOAM\_ROOT\_PATH/OpenFOAM/OpenFOAM-v1812-ADF/etc/bashrc && \

./Allclean && \

./Allmake 2> log.txt && \

pip install .