# Setting up the instance

Followed this tutorial (Including prerequisites):

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html>

Requisites included:

* Creating administrative user
* Setting up key-pair

# Connecting

Installed AWS CLI:

<https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-welcome.html>

Then, connection possible with

ssh -i ~/.ssh/KristofKULAWS.pem [ec2-user@ec2-51-20-92-83.eu-north-1.compute.amazonaws.com](mailto:ec2-user@ec2-51-20-92-83.eu-north-1.compute.amazonaws.com)

Working on 18/06:

ssh -i ~/.ssh/KristofFirstKeyP.pem ec2-user@ec2-51-20-137-138.eu-north-1.compute.amazonaws.com

Where the first part is your locally stored private key, then the default username, followed by the public dns name. More info here:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/connect-linux-inst-ssh.html>

# Syncing data to EC2

I used rsync to do this. It has to be noted that I first got errors trying to sync with this command:

Ssh key file path

Source folder path

Destination path

-anv are rsync flags that perform a dry run, to actually sync remove the nv

rsync --progress -e "ssh -i ~/.ssh/KristofKULAWS.pem" OneDrive\ -\ KU\ Leuven/StorageOptimisationImbalance/Scripts/ ec2-user@ec2-51-20-92-83.eu-north-1.compute.amazonaws.com:~/StorageOptimisationImbalance -anv

The error that I got looked like this:

rsync: [receiver] mkstemp "/home/ec2-user/StorageOptimisationImbalance/.Data\_Elia\_API.py.4rd3o4" failed: Permission denied (13)

It had to do with permissions at AWS side, the ec2-user account did not have writing permission in the target folder, so I had to change the permission by running the command below while connected via terminal (see above: Connecting)

sudo chown -R ec2-user:ec2-user StorageOptimisationImbalance/

# Running the timewriter script

I consulted this [video](https://www.youtube.com/watch?v=xXirbnUB3NU). However, the online connect interface that he uses did not work for me, so I did it with ssh.

Nohup command to run in the background: this makes sure that script keeps going when you close session.

<https://stackoverflow.com/questions/17385794/how-to-get-the-process-id-to-kill-a-nohup-process>