## Osemosys cloud allows us to run the solving process on the cloud easily and quickly.

Since the whole file will run you will have to run main.py twice. Once to get the input data for Osemosys cloud, and once to extract that data to a results csv/xlsx. Don’t worry, you can run the whole file, the first run will just give you an error with the text:

‘The result.txt file is not in the tmp directory. Please get it from osemosys-cloud.com, put it in the tmp directory and try again. There is documentation in the documentation folder if you want to know how to do this.

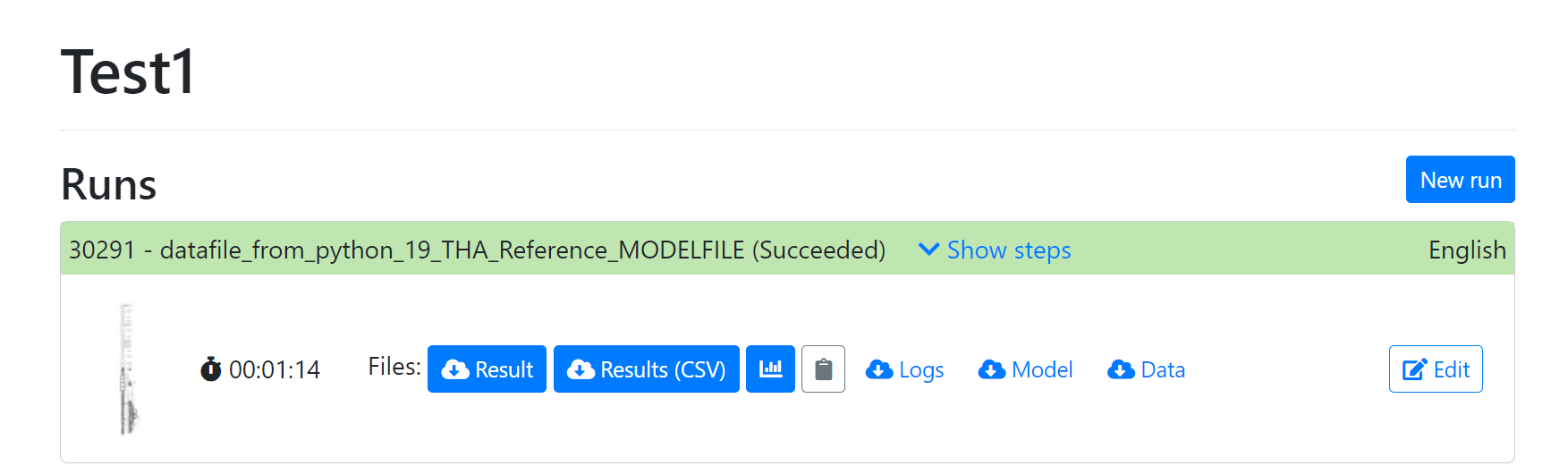
No results found in directory.’

But make sure to correctly set the variables between ~line 18 to line 32~.

## Instructions for using osemosys-cloud.com:

1. You need to set up an account on <osemosys-cloud.com>
2. A picture containing shape

   Description automatically generated
3. Create New model. Then press it’s name.
4. Graphical user interface

   Description automatically generated with medium confidence
5. Create New version. Then press it’s name
6. 
7. Create New run. This will be a bit more complicated:
   1. For **model file** use the osemosys-fast.txt file. These are the instructions for how the server should solve the model.
      1. This file can be recognized as it says ‘# OSeMOSYS FAST‘ at the top line.
   2. For **data file** use the *path\_to\_input\_data\_file = {tmp\_directory}/datafile\_from\_python\_{economy}\_{scenario}.txt* file that is produced from the function *prepare\_data\_for\_osemosys().*
      1. Eg. *power-model\tmp\19\_THA\cloud\_Reference\datafile\_from\_python\_19\_THA\_Reference.txt*
      2. This file can be recognized as it says ‘# Model file written by \*otoole\*’ at the first line of the .txt file.
   3. Set the rest of the details to what you like.
8. Once the process has run you should pressA picture containing graphical user interface

   Description automatically generated to get a zip file of the results. Then extract the result.txt file from there and put it in the tmp\_directory folder
   1. tmp\_directory folder should be named like \power-model\tmp\{economy} \cloud\_{scenario}
      1. eg. \power-model\tmp\19\_THA\cloud\_Reference
9. Run the main.py file again.