GreenHouseDT SimulationDriver Manual

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1 Setting Up the environment for Demo purpose

The environment is set up be default to use the demo environment. This will result in:

- Writing to the Demo bucket of the InfluxDB
- Use the data from the Demo bucket to display information of the moisture on the graph

2 Setting Up the environment to use with a GreenHouse

To use the environment with a proper greenhouse, two things has to be done

• Set up the proper token for the simulation driver; this can be done from the folder SimulationDriver on the Desktop and changing the settings of the config_local.yml file

```
1 url: http://localhost:8086
2 org: UiO
3
4 # Decomment the following for GreenHouse and comment the Demo part
5 #token:
6 #bucket: GreenHouse
7
8 # Decomment the following for Demo and comment the GreenHouse part
9 token:
10 bucket: GreenHouseDemo
```

Figure 1: Token configuration

• Change the execution mode for the frontend. This can be done from the terminal with sudo bash change_parameters.sh and changing the Operating Mode to either *demo* or *greenhouse*

3 Adding the RDF for the execution

To upload the asset model navigate to the page http://localhost:3030 and click on Add Data, from there click on Select Files, navigate to home

-> Desktop -> Simulation Driver and choose the greenhouse.ttl if you want to use our asset model, or upload your own if you have a different one.

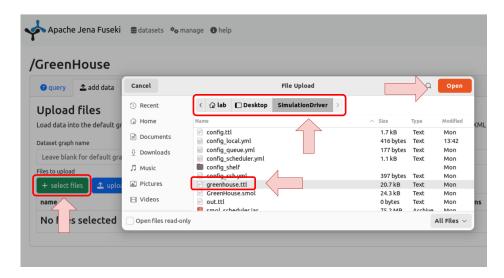


Figure 2: Upload the ttl

4 Executing the project

For the execution the file execute_simulation.sh has been added on the Desktop. You just need to execute it with the regular user with

./execute_simulation.sh

and the various information on the system will be updated over time on the frontend at http://greenhousedt.local

5 Extend the GreenHouse

In case of addition of elements the following file has to be modified

• config_shelf_*: for each shelf we use a different file and modifications and/or addition has to be added before restarting the system to get the new elements

• The asset model has to be updated with the appropriate query: this can be done on the update seciton on http://localhost:3030

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