

To run the application as a docker container in linux system, follow these steps. All the steps are mandatory.

- 1) Run the following command on your system.

xauth list

- 2) Make sure that the output is of the form
username/unix:0 MIT-MAGIC-COOKIE-1 8fe8efc75454dbf178bbe00442689406
- 3) Copy the above output in a separate file
- 4) Run the following command.

sudo docker run -v <Path to a folder in your system containing input files>:/usr/src/app/inputFiles -ti --net=host -e DISPLAY -v /tmp/.X11-unix iamrj846/smart2.0:latest bash

Example path of the folder is: /home/username/Desktop/inputFiles

- 5) Inside the bash, run the following commands
 - a) **apt-get update**
 - b) **apt-get install xauth**
 - c) **xauth add <the output pasted in a separate file in step 2>**
 - d) Verify that the host system is connected to the remote system using this command: **xauth list**
- 6) Run the file GUI_1.6.py using the following command.
 - a) **python3 GUI_1.6.py**