

LG-Stellarium user manual

Google Drive folder:

<https://drive.google.com/drive/folders/1VDw5lwrXW53fm6egQN9WcDyFOzM7Xwzv?usp=sharing>

Steps to set up

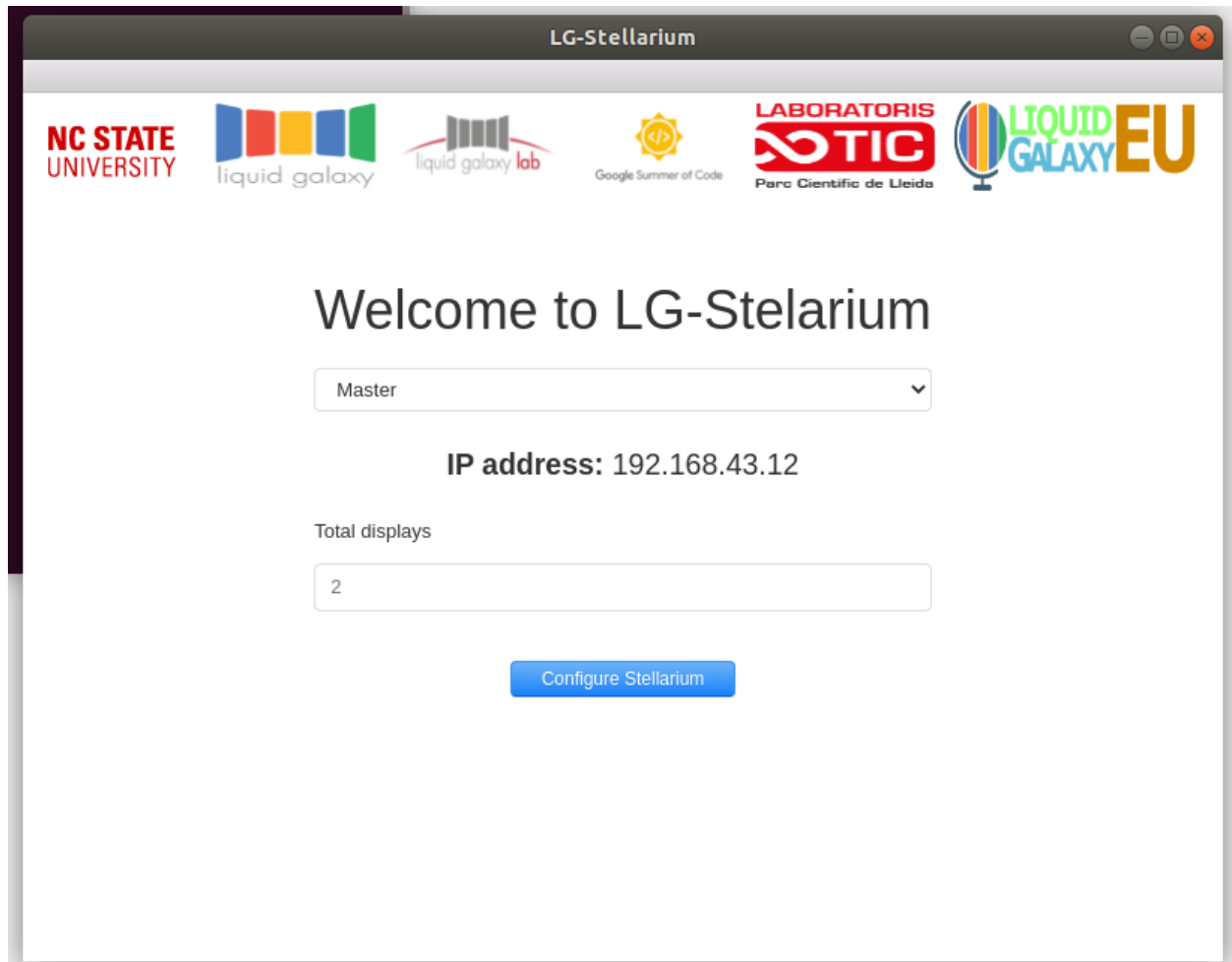
- **System:** 1 master and rest slaves.
- All PCs should be on linux based OS(preferably Ubuntu 18.04).
- Make the middle PC as master (because it's vertical and horizontal offset is set to 0).
- All PCs should be on same network

Perform following steps on all PCs.

1. Download Stellarium .deb file from google drive (file name: Stellarium-0.20.4-Linux.deb) and install it by double clicking on file and then click install.
2. Change display size:
 - a. Open terminal and go to root directory
 - b. Run: `cd .stellarium/`
 - c. Run: `sudo gedit config.ini`
 - d. Search `screen_h` and replace its value by current display's vertical resolution
 - e. Search `screen_w` and replace its value by current display's horizontal resolution
 - f. Save and close file
3. Run stellarium via terminal, it will abort automatically, but this step will make sure the config file is created if it was not created while installation.
4. Copy Stellarium-Application folder from google drive (file name: LG-Stellarium-linux-x64)
5. Open that folder in terminal and run `./LG-Stellarium` command to launch the desktop application
 - If `./LG-Stellarium` doesn't run try `chmod +x ./LG-Stellarium` followed by `./LG-Stellarium`

Perform this on Master PC (do this part before moving to slave):

1. Select Master and fill in total number of displays
2. Click on configure Stellarium

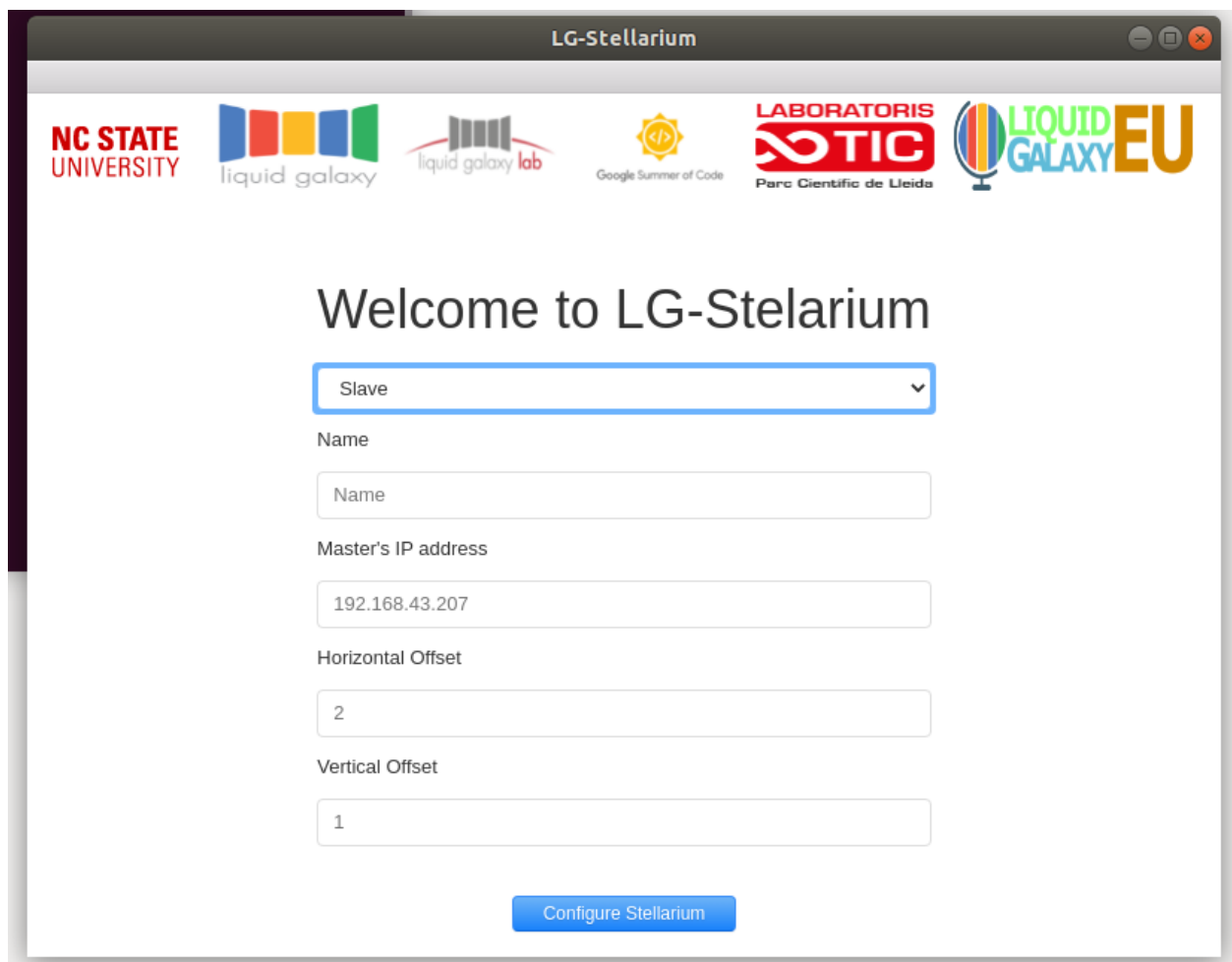


The screenshot shows a web browser window titled "LG-Stellarium". The header contains several logos: NC STATE UNIVERSITY, liquid galaxy, liquid galaxy lab, Google Summer of Code, LABORATORIS OTIC Parc Científic de Lleida, and LIQUID GALAXY EU. The main content area has a large heading "Welcome to LG-Stellarium". Below this is a dropdown menu with "Master" selected. Underneath the dropdown, the text "IP address: 192.168.43.12" is displayed. Further down, the label "Total displays" is followed by a text input field containing the number "2". At the bottom of the form is a blue button labeled "Configure Stellarium".

Perform this on Slave PCs (do this part after configuring master):

1. Select slave and fill in details

- Name: You can name anything, it's just for your reference
- Horizontal Offset: Unit distance from master (-1, -2.. If slave is on left side; 1, 2.. If slave is on right side)
- Vertical Offset: Unit distance from master (-1, -2.. If slave is placed down; 1, 2.. If slave is placed up)
- Master's IP address: It will be displayed on application running on master PC (or you can even check it by running ifconfig command on terminal on master PC)



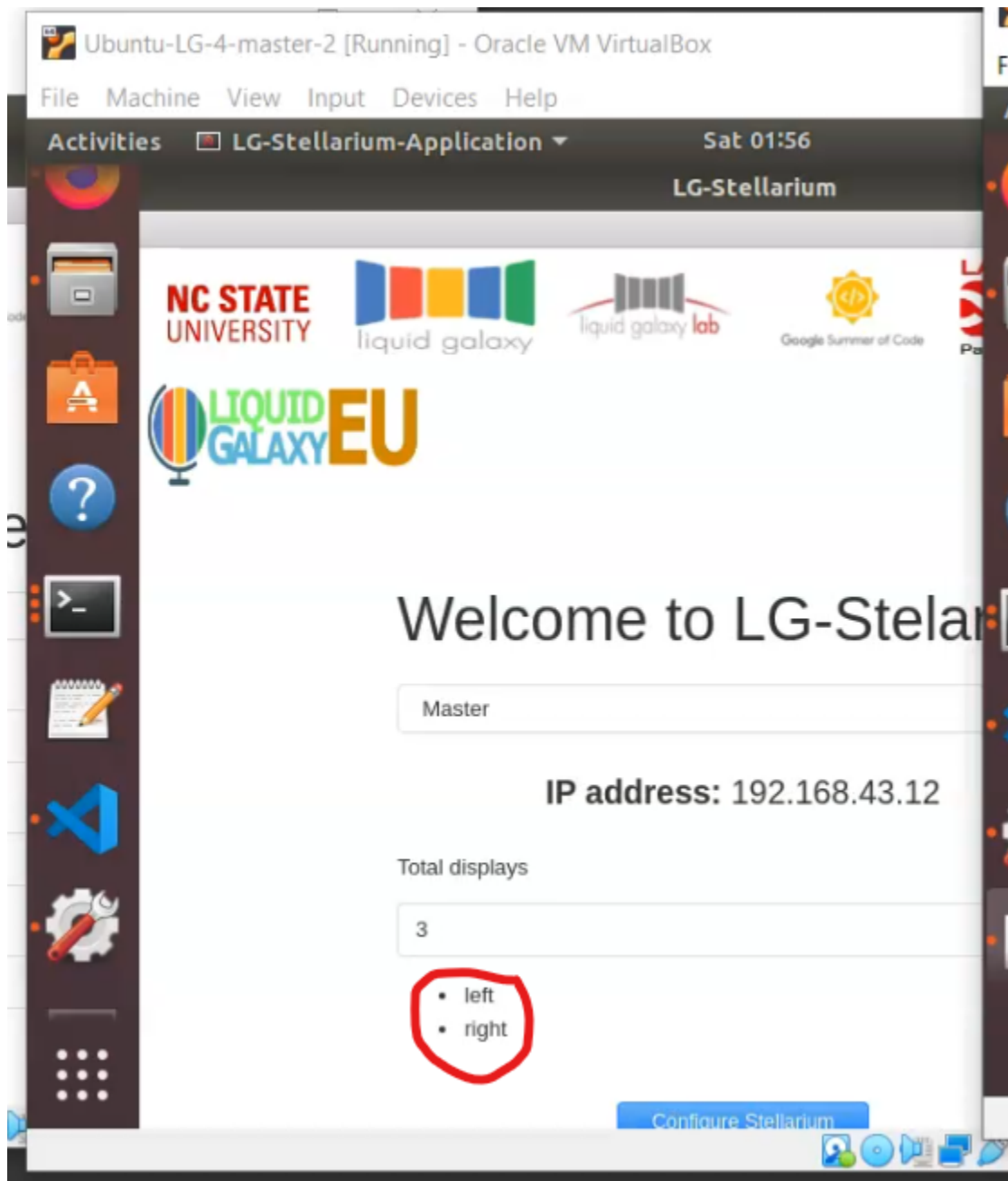
The screenshot shows the LG-Stellarium application window. The title bar reads "LG-Stellarium". The header area contains several logos: NC STATE UNIVERSITY, liquid galaxy, liquid galaxy lab, Google Summer of Code, LABORATORIS OTIC, and LIQUID GALAXY EU. The main content area has the heading "Welcome to LG-Stellarium". Below this is a dropdown menu with "Slave" selected. The form includes the following fields:

- Name: A text input field with the placeholder "Name".
- Master's IP address: A text input field containing "192.168.43.207".
- Horizontal Offset: A text input field containing "2".
- Vertical Offset: A text input field containing "1".

At the bottom of the form is a blue button labeled "Configure Stellarium".

2. Click on configure Stellarium

- After clicking, name of the current PC should be displayed on master(as in picture below).
- Once all slaves are configured it should automatically launch Stellarium in all displays.



Note

- The above-mentioned steps are just needed for initialization, next time onwards you can directly launch Stellarium, but remember to first launch in master followed by slaves.
- You'll need to perform the above steps if the IP address or position(offset) of any display from the setup is changed.

Video link:

https://drive.google.com/file/d/1cjlUJn2gBT7PaIBVs4yk6XS_0Su6Ysm4/view?usp=sharing

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