

## Gurobi Installation

1. Register yourself at <https://www.gurobi.com/> with your institute mail ID.
2. Once logged in, click on **Downloads and Licenses** at the top. Under **Download the Latest Version of Gurobi**, click on **Gurobi Optimizer**.
3. Scroll down to **Current Version** and download the appropriate version.
4. In Linux, you will have downloaded a tar.gz file. Move this file to a folder where you want to install Gurobi. You can move it to /opt for a shared installation across users otherwise, your home directory should also work.
5. Unzip the file by running the following command - `tar xvfz gurobi<version>_linux64.tar.gz`
6. This will extract the contents into a new directory named by the Gurobi version, which will contain a sub-directory named `linux64` (assuming you have x64 Linux). The full path to the `linux64` directory is your <install-dir>.
7. Open your .bashrc file (`ls -a` in your home directory, and you will find it) in any text editor and add the following lines at the end.

```
export GUROBI_HOME=<install-dir>
export PATH=$GUROBI_HOME/bin:$PATH
export LD_LIBRARY_PATH="${LD_LIBRARY_PATH}:${GUROBI_HOME}/lib"
```

8. **Edit:** You need to restart the terminal after you make changes in the .bashrc file for the changes to take effect. Alternatively, you can run the command `source ~/.bashrc` to allow the changes to become active without needing to restart the terminal. (By restart, I mean, close and relaunch the terminal)
9. The next step is to create a license. Go back to the **Downloads and Licenses** page. Scroll down to the **Access your Licenses** section and click on **Your Gurobi Licenses**. This will take you to a page listing all your licenses.
10. On the left, click on **Request** and choose **Named-User Academic** and click **Generate Now**. This should generate the license and give you a `grbgetkey` command with your specific license details. **Names-User Academic** licenses are valid for 1 year. You can generate a new license when this one expires if you need to.
11. Copy this command and run it in the terminal. It will ask for a location to store your license. It is recommended to accept the default location, but in case you want to store it anywhere else, you can do so and then add another line to your .bashrc file which specifies the location.

```
export GRB_LICENSE_FILE=<License-File-Location>
```

12. Gurobi should work now. You can test it by running the command `gurobi_cl --version`

Some sources in case you are facing any issues

- <https://support.gurobi.com/hc/en-us/articles/4534161999889-How-do-I-install-Gurobi-Optimizer>

- <https://support.gurobi.com/hc/en-us/articles/13207658935185-How-do-I-retrieve-an-Academic-Named-User-license>
- <https://support.gurobi.com/hc/en-us/articles/360047265972-grbgetkey-command-not-found>