Lab Guide to GRID

1. Start the HBS VPN if you are not on campus.
2. Download [SecureCRT](https://inside.hbs.edu/Departments/it/howto/installed-software/Pages/SecureCRT.aspx) if not on your computer. This is the terminal in which it is recommended to run GRID.
3. Follow this [tutorial](https://grid.rcs.hbs.org/accessing-grid-using-terminal) to connect and enter the environment
4. Congratulations, you have entered the GRID.
   1. The GRID uses UNIX commands for navigation. The most important of these to remember are ls (list files, so you can see what’s in your folder) and cd (to change directories and navigate to a new folder)
   2. Use the command ls to see what is inside your folder.
5. To change directories, use the cd command followed by the name of the folder.
   1. For example, to enter our project folder, I used the command cd .. to move up in folders until I reached the export folder.
   2. I then used cd projects2 and cd agoldenberg\_twitter\_data\_project/ to access our place.
6. Upon entering the folder, use the ls command to see what’s there.
7. To run a script: navigate to the folder where the script is located. These [skeleton commands](https://grid.rcs.hbs.org/command-line) can help you understand how to run the job.
8. [Installing packages](https://grid.rcs.hbs.org/python-r-packages-and-grid) (full guide). For python packages:
   1. Set up an alias so it's easy to submit interactive jobs to back-end nodes:  
      alias my\_run="bsub -app python-5g -q short\_int -Ip"
   2. Install your Python module by prefixing the install command with my\_run:  
      my\_run python -m pip install --user SomeModule
   3. OR, If you are using Python3, use the python3 command instead:  
      my\_run python3 -m pip install --user SomeModule
   4. **IMPORTANT: the online guide says pip3 but I have found that pip works, pip3 does not**
   5. The modules will be placed in the directory $HOME/.local for use by your scripts and programs. If you are upgrading modules that are already installed centrally, insert --upgrade before the --user option.
9. More info: <https://grid.rcs.hbs.org/> (GRID site)

Sources:

<https://grid.rcs.hbs.org/accessing-grid-using-terminal>

<https://grid.rcs.hbs.org/command-line>