**Commands (UTILS):**

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| **Command** | **Description** |
| **pip freeze** | list the installed Python pachages |
| **cat id\_dsa.pub** | Get ssh key for GitLab (cat is a quick way to check the content!) |
| **grep 20170104 /local/data/** | Find rows with the word 20170104 in the text file |
| **gunzip -c clustersRED\_ALGO\_ALL\_USA\_2017Q1.dat.gz | gawk -F"," '{print $1,",",$49}' | head -400** | Retrieve particular columns and print the first 400 lines |
| **for i in ‘ls DirName/\*.{type}’; do gzip DirName/${i};done;** | Recursive way to unzip etc. |
| **%RT** | Path for the RT space |
| **pip -V** | Help to know if which Python environment you are in |
| **virtualenv rlgym** | Create virtual environment |
| **source virtualenv/rlgym/bin/activate** | Will activate the virtual environment. Make sure you are in the right folder! |
| **deactivate** | Will quit the current virtual environment |
| **pip freeze > requirements.txt** | Save the current installed packages to a file |
| **pip install -r requirements.txt** | Install from a list of requirements |
| **/local/daily$ gunzip -c daily\_USA\_2.3\_201809\* | grep GPN** | Price. Unzip and grep by “GPN” |
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| **zless askDepth\_20181003.dat.gz** | Visualize the preprocessed tick data |
| **/home/fedev/tools/devTools/pycharm-community-2018.1.2/bin/pycharm.sh** | Just run Pycharm |
| **export DISPLAY=10.4.33.39:0.0** | Set display for X11 remote GUI. In case you run into problems, check your IP with **ipconfig** |
| **zless somefile.dat.gz | grep 'CommonStock,volatility,12,'** | Open a file with a particular filter (like doing Ctrl+F) |
| **zless somefile.dat.gz | grep 'CommonStock,volatility,12,' | gawk -F"," '($7==$6+1) {print $0}'** | Open and filter rows in which a particular colum assuming +1 of the previous column, $7=$6+1 |
| **git clone <address>** | To get started. Create in a “ref” folder (latest reference code) |
| **git checkout dev** | First, cd to the folder.  Will switch to the dev version |
| **git pull** | Will sync the latest version |
| **Tools/bin/mpo-build** | This will compile the latest version |
| **Tools/bin/mpo-build -C** | Clean if there is some problem when compiling |
| **DyCE/bin/DyCE** | Within ref, this is the path to the engine |
| **git pull** | Get the latest version |
| **git status** | List modifications |
| **git add <files to add>** | Add modified files |
| **git commit -m "FX calibration code"** | Give a name and commit |
| **git push** | Finalize |
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