Jupyter Notebook on the Linux Cluster

First create a personal python environment using conda on lxlogin5.lrz.de

```bash
$ module load python
$ conda create -n my_python
$ source activate my_python
$ conda install jupyter
```

In order to forward the jupyter notebook server you have to create a tunnel on your local machine by starting:

```bash
$ ssh -NL localhost:8889:localhost:8889 lxlogin5.lrz.de
```

then start a jupyter notebook server on lxlogin5.lrz.de

```bash
$ jupyter notebook --no-browser --port=8889
```

Then you will see something like this:

```
[I 18:24:38.759 NotebookApp] 0 active kernels
[I 18:24:38.759 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 18:24:38.760 NotebookApp]

Copy/paste this URL into your browser when you connect for the first time, to login with a token:
http://localhost:8889/?token=95065e0f6b26bfb
```

Now paste the web adress into a local browser input field and you are connected to the jupyter notebook server on lxlogin5.lrz.de.

You can click on start new notebook and choose python2

Here is an example session for python:

```python
%matplotlib inline
import matplotlib.pyplot as pl
import dask.array as da
pl.hist(da.random.uniform(size=(1000000,100),chunks=10000).sum(axis=0).compute())
```
plt.imshow(da.random.uniform(size=(100,100,100),chunks=10).sum(axis=0).compute())