

# SWAN

- go to [swan.cern.ch](http://swan.cern.ch)



# Starting SWAN

make sure to have selected  
the default 86 version

## SWAN Customisation

Specify the parameters that will be used to contextualise the container which is created for you. See [the online SWAN guide](#) for more details.

**Software stack** [more...](#)

86

**Platform** [more...](#)

x86\_64-slc6-gcc49-opt

**Environment script** [more...](#)

e.g. `$CERNBOX_HOME/MySWAN/myscript.sh`

**Number of cores** [more...](#)

1

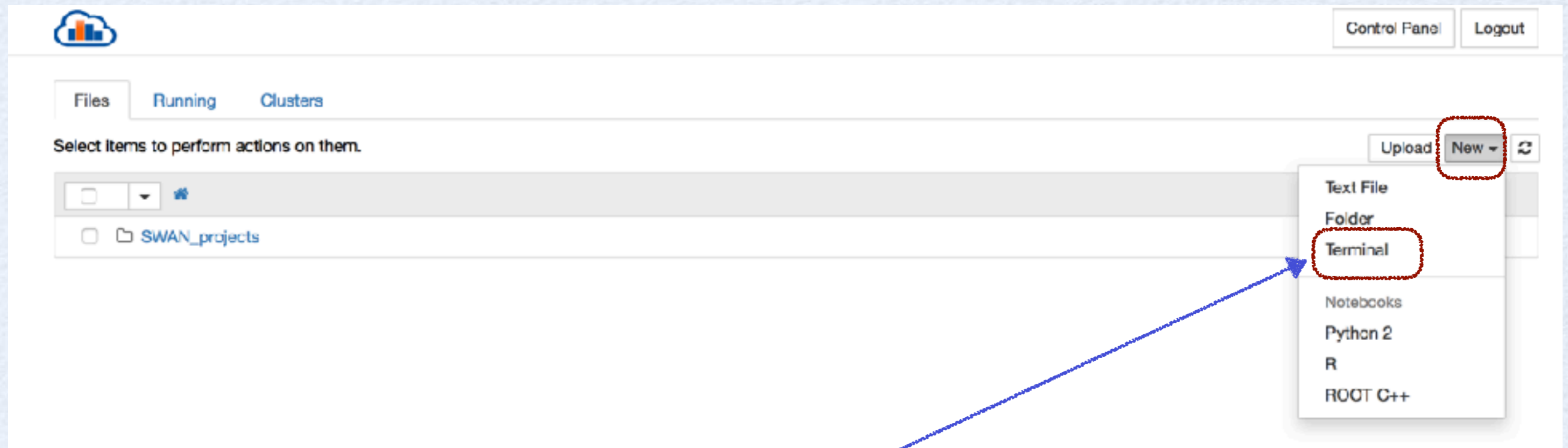
Start my Session

click here to start

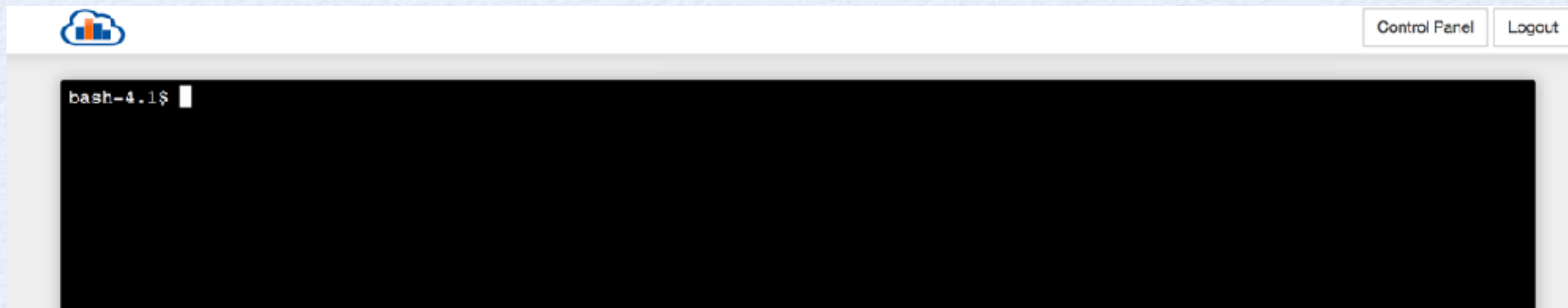


# Starting a Terminal in SWAN

After login cernbox home directory will be visible



Start a terminal window





# Downloading the Notebooks

- After starting the terminal, download the notebooks for today's session.
- Download from my Web page using *wget*:

```
wget http://www.cern.ch/moneta/swan/Day3.tar.gz
```

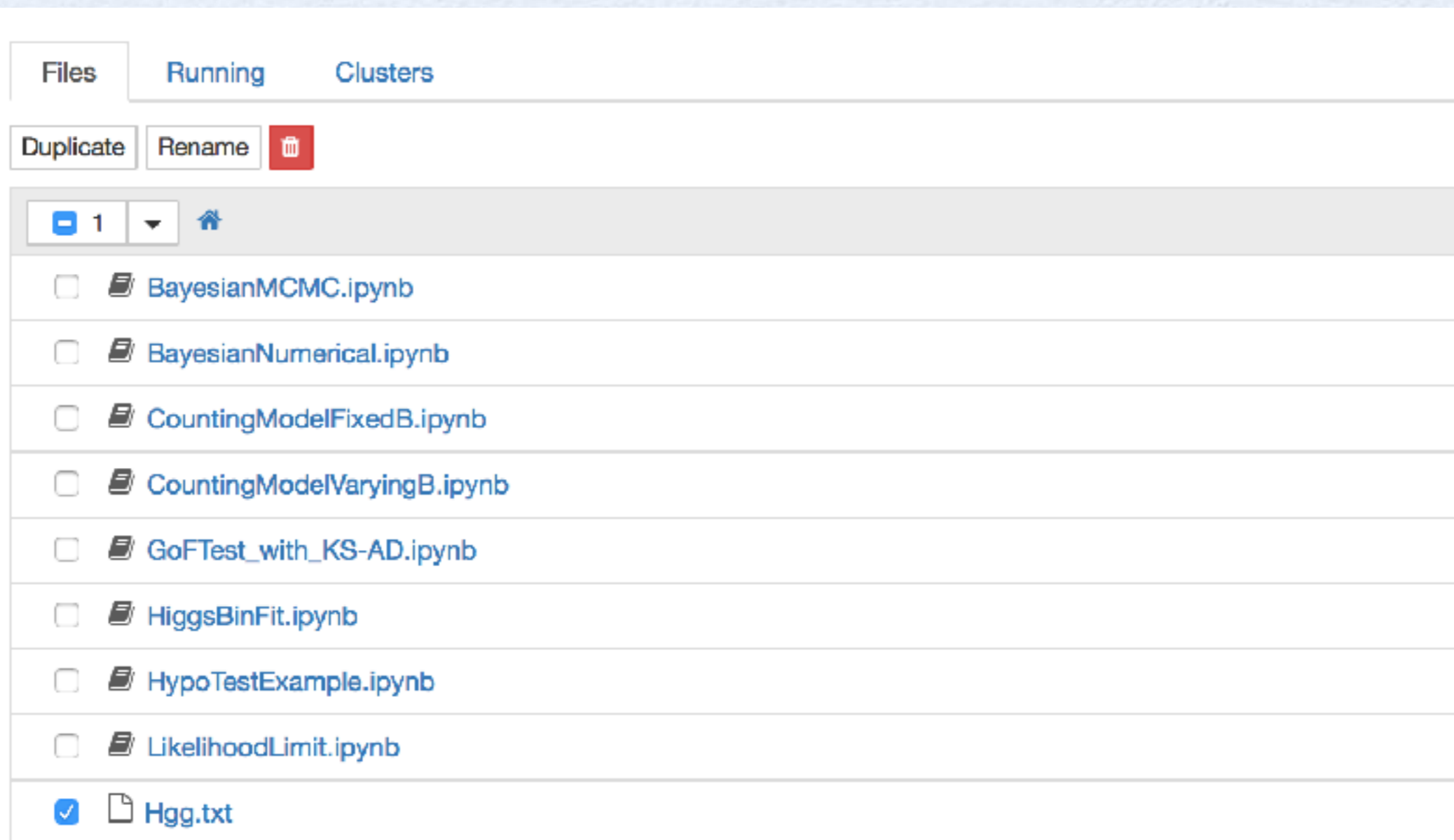
```
bash-4.1$ wget -nv http://www.cern.ch/moneta/swan/Day1.tar.gz
2016-11-27 12:30:53 URL:http://moneta.web.cern.ch/moneta/swan/Day1.tar.gz [200496/200496] -> "Day1.tar.gz" [1]
bash-4.1$ ls
Day1.tar.gz  SWAN_projects
bash-4.1$ tar -zxvf Day1.tar.gz
Day1/
Day1/ExtendedMLFit.ipynb
Day1/LikelihoodAsGoF.ipynb
Day1/LikelihoodFit.ipynb
Day1/PoissonCoverage.ipynb
bash-4.1$
```

- untar the downloaded archive file


```
tar -zxvf Day3.tar.gz
```


# Day 3 Exercises










- One more GoF test using Kolmogorov-Smirnov and Anderson-Darling
- Interval estimation using RooStats
  - Bayesian vs Profile Likelihood



Files Running Clusters

Duplicate Rename 

1 

-  BayesianMCMC.ipynb
-  BayesianNumerical.ipynb
-  CountingModelFixedB.ipynb
-  CountingModelVaryingB.ipynb
-  GoFTest\_with\_KS-AD.ipynb
-  HiggsBinFit.ipynb
-  HypoTestExample.ipynb
-  LikelihoodLimit.ipynb
-  Hgg.txt



# References to RooFit & RooStats

- RooFit tutorial slides
  - <https://cernbox.cern.ch/index.php/s/kzGv4406IrpFpVM>
- RooStats tutorial slides
  - <https://cernbox.cern.ch/index.php/s/9DWJCObingTWB3r>