Use ibex

To have a easier life 😊

$ which conda

check the information of conda which is being used

$ conda create --name py3 python=3.7

create a new virtual env with python of version 3.7

$ conda activate py3

activate one specific env according to the name

$ conda deactivate

deactivate an activate env

$ conda env list

get a list of all envs available

conda cheatsheet

Run remote Jupyter notebook on local browser

First—on remote server

- ***$ ssh username@vlogin.ibex.kaust.edu.sa***
  - enter the password; login in remote server successfully;
  - create a new conda env and ensure the jupyter notebook is installed;
  - activate the the conda env you want to use.
- ***$ jupyter notebook***
  - open nb and check the port, for example, 8889
  - ctrl+c to kill the running nb
- ***$ nohup jupyter notebook –no-browser –port=8889 > log.notebook 2>&1 &***

Run remote Jupyter notebook on local browser

Second—set password

- ***$ jupyter notebook –generate--config***
  - create the Jupyter folder, and notebook configuration file, ***jupyter_notebook_config.py***, in this folder.
- ***$ jupyter notebook password***
  - enter and verify password;
  - password will be written to ***jupyter_notebook_config.json***, which in the same directory with ***jupyter_notebook_config.py***
- ***$ rm jupyter_notebook_config.py***
  - this file could be delete directly.

Run remote Jupyter notebook on local browser

Then—on local laptop

- ***$ ssh -N -f -L localhost:8882:localhost:8889 username@vlogin.ibex.kaust.edu.sa***
  - the first port is used on your localhost and second port should be consistent with the port where the nb is running on the remote server;
  - enter the password correctly;
  - type ***localhost:8882*** to the URL blank region of the local browser and enter;
  - enter the password and then you are able to use nb.

Userful tutorials

- running jupyter notebook on remote servers
- jupyter notebook official document