Conda

conda used only for containeriez environments and pip for install packages

1 - Create and activate a conda environment
- conda create --name myenv
- conda activate myenv

→ switch from base conda env to myenv

2 - Install pip using conda
- conda install pip

→ To install my Packages on current environment.
Pip is specific with Python Packages only, but conda not.

3 - Install jupyterlab
- pip install jupyterlab ----> by default includes jupyter notebook

4 - install ipykernel
- pip install ipykernel

→ the backend of Jupyter which handle the execution of code sent to notebook

5 - Add the environment to jupyter

→ for each env, we create it's own Kernel in Jupyter
- python -m ipykernel install --user --name=myenv --display-name "Python (myenv)"

6 - Launch jupyterlab or jupyter_notebook
- jupyter-lab → launch a notebook
- jupyter notebook
  - -- by default installing jupyterlab includes jupyterlab and jupyter notebooks
    so you can run any one of them without install jupyter notebook separately

Create clonned environment

1 - conda create --name newenv --clone oldenv

الحلوة ان كل ال Packages الى كانت في ال oldenv هتكون موجودة في ال newenv ومش هتحتاج تنزلها تاني

2 - conda activate newenv

3 - python -m ipykernel install --user --name=newenv --display-name "Python (newenv)"

بينشئ لل newenv ال Kernel الخاصة بيها على Jupyter

4 - jupyter-lab OR jupyter notebook
- select the kernal for this newenv in jupyter

لما تفتح ال notebook من ال web تبقا تختار ال Python(newenv) Kernal من الإختيارات

- ليه بعمل الخطوة رقم (٣) عشان طبعاً ال isolation يكون 100% مابين ال environments ويكون independent
- لو عندي env1,2,3,4,5,6 وفي tmux عملت ال run لل env1 مع ال Kernel بتاعتها وأنا مخطط كله معتمد وبيستخدم env1-kernel بس لما آجي اعمل ال run لل another env هلاقي ال env1-kernel مستخدمة
فساعتها الأفضل ان كل env يكون ليها ال Kernel الخاصة بيها

* conda env list --> list all your conda environments
* conda list --> list all packaged installed for current environment
* conda deactivate --> switch to base conda environment
* conda remove --name myenv --all --> delete myenv

1- install miniconda from conda website and install it using "bash installer_path" and reboot the terminal

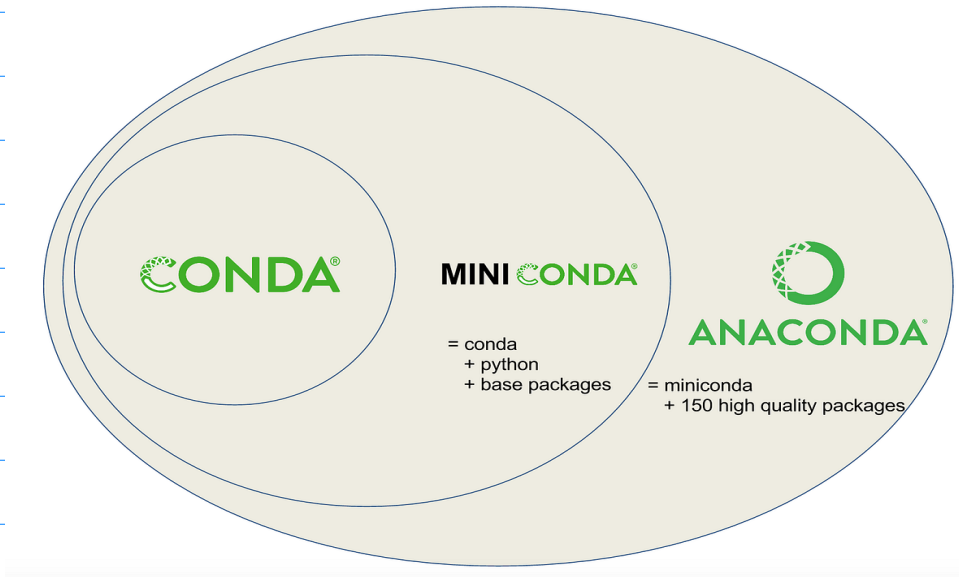
2- when open the terminal again , by default it is opend on base conda

3- from the base you can create environments and switch between them
- create new environment " conda create --name <env_name> "
- activate an environment " conda activate <env_name> "

4- after activation we switched to another environment and has no packages

5- setup our environment to use it
- "conda install pip" --> for installing all my packages for each environment
- "conda install jupyter ipykernel" --> the backend of notebooks to run and debug it
- "python -m ipykernel install --user --name=myenv --display-name "Python (myenv)"
  - replace myenv with my current environmet name
  - so we can choose it from the kernal options in the notebook
- "jupyter notebook" --> to create new notbook
- this setup is made for every new environment "isolated"

6 - we can clone a new environemt with all packages from another



https://conda.io/projects/conda/en/latest/user-guide/tasks/manage-environments.html#activating-an-environment
--> managing conda environments