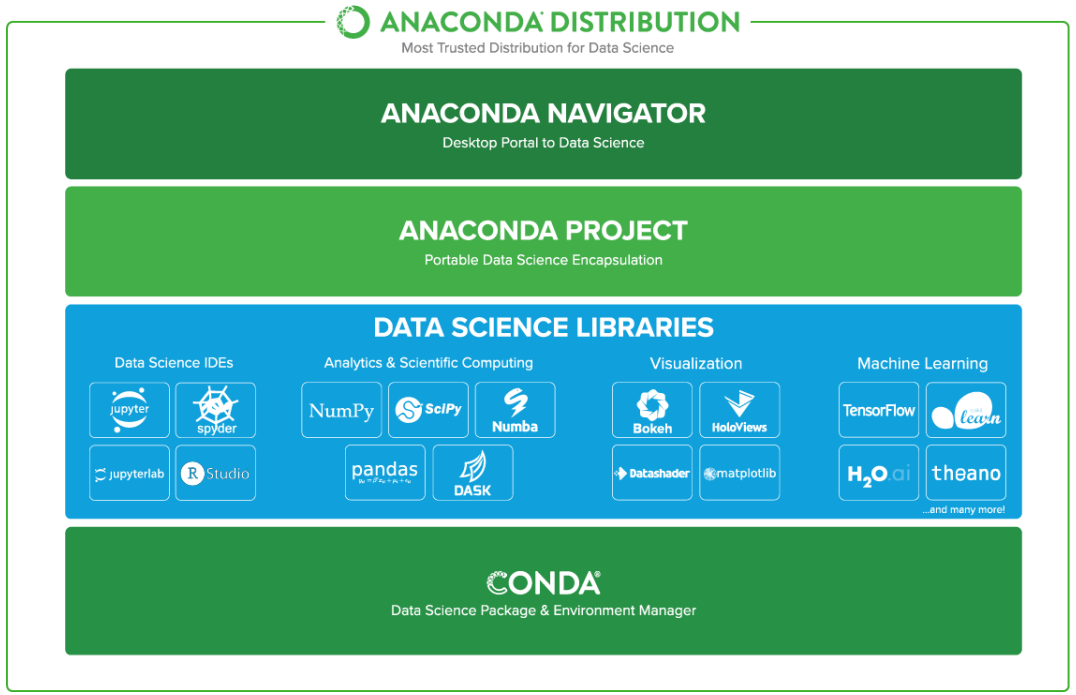
ak系列 – Environment

(Anaconda: Python3.6)

Anaconda

- Anaconda has pre-packaged 1,400+ data science pages for Python/R
- Anaconda helps to manage python packages, dependencies and environments



使用Ananconda可以簡化相關Python的環境設定與函式庫的管理

Step1. Install Anaconda

Anaconda installation

- Go to Anaconda official web site:
  - https://www.anaconda.com

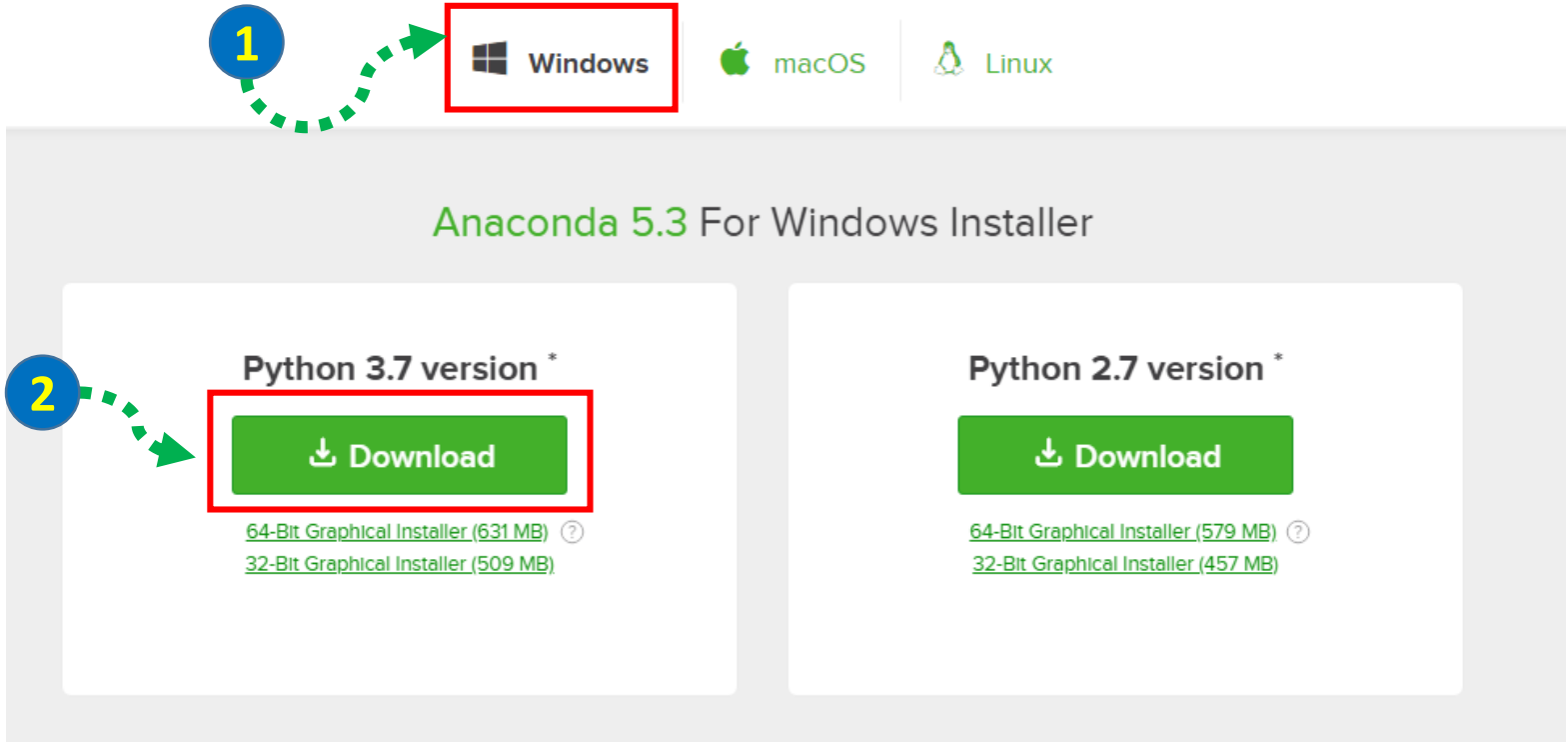
Click “Download Now” of “ANACONDA DISTRIBUTION”

Anaconda Distribution: Win, Mac & Linux

- As of Today, the most update version is Version **5.3**
- Choose different distribution according to O.S of your machine

Anaconda Distribution: Win

- Click “Download” for Python 3.7 version

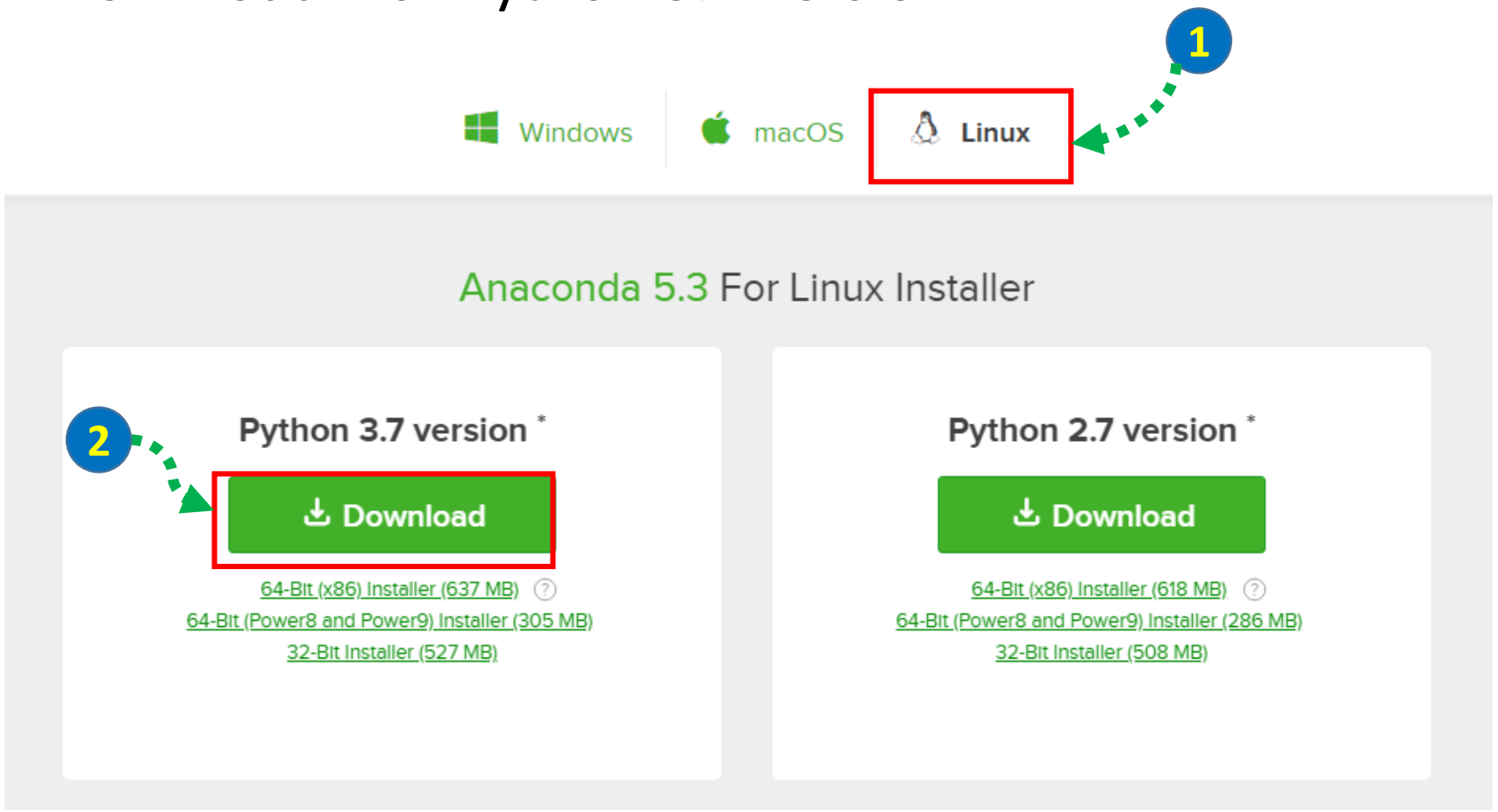


Anaconda Distribution: Mac

- Click “Download” for Python 3.7 version

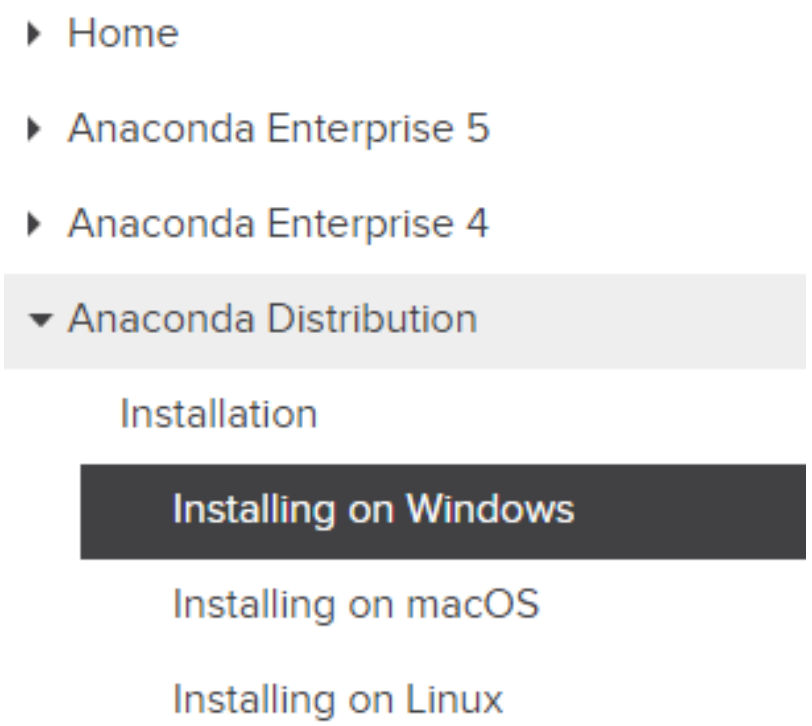
Anaconda Distribution: Linux

- Click “Download” for Python 3.7 version



Anaconda Details Installation Steps

- You can find detail installation steps in below link:
  - https://docs.anaconda.com/anaconda/install/



Verifying Anaconda Installation (Method#1)

Anaconda Navigator

- Open Anaconda Navigator, which is automatically installed when you install Anaconda
  - **Windows**: Click Start - then from the shortcuts, select **Anaconda Navigator**. If it opens, you have successfully installed Anaconda.
  - **macOS**: Click Launchpad - then select **Anaconda Navigator**. If it opens, you have successfully installed Anaconda.

Verifying Anaconda Installation (Method#2)

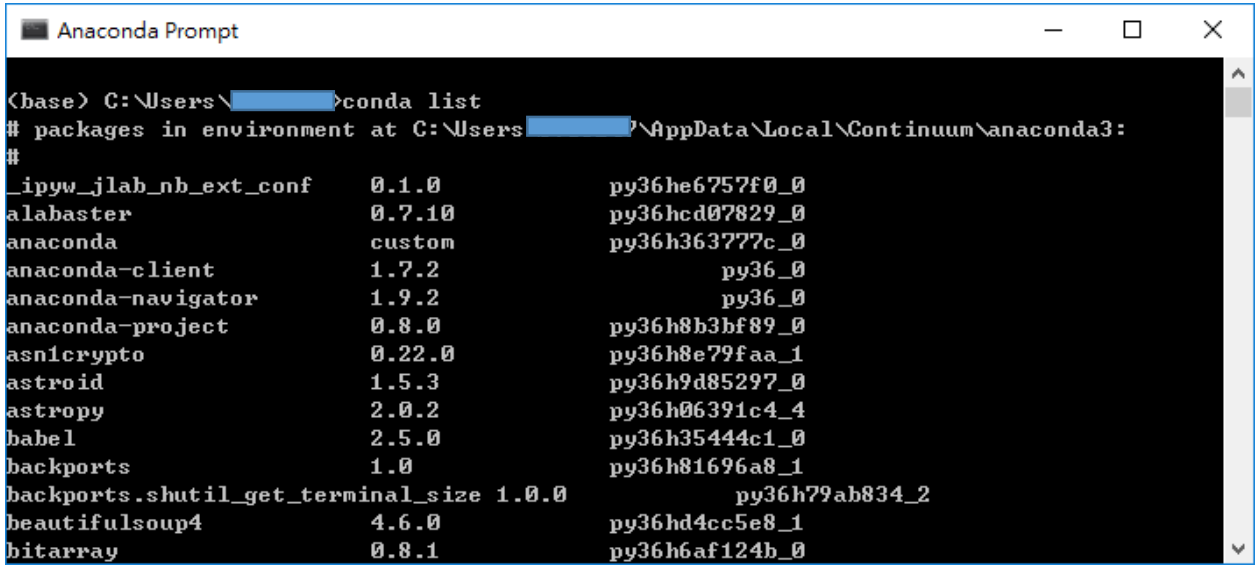
Conda

- To open Anaconda Prompt (or Terminal on Linux or macOS):
  - **Windows**: Open the Anaconda Prompt (Click Start, select **Anaconda Prompt**)
  - **macOS**: Open Launchpad, then open **Terminal** or iTerm.
  - **Linux–CentOS**: Open Applications - System Tools - **Terminal**.
  - **Linux–Ubuntu**: Open the Dash by clicking the upper left Ubuntu icon, then type "**terminal**".

Verifying Anaconda Installation (Method#2)

Conda

- After opening Anaconda prompt (Terminal on Linux or macOS), choose any of the following methods:
  - Enter a command such as "**conda list**". If Anaconda is installed and working, this will display a list of installed packages and their versions.

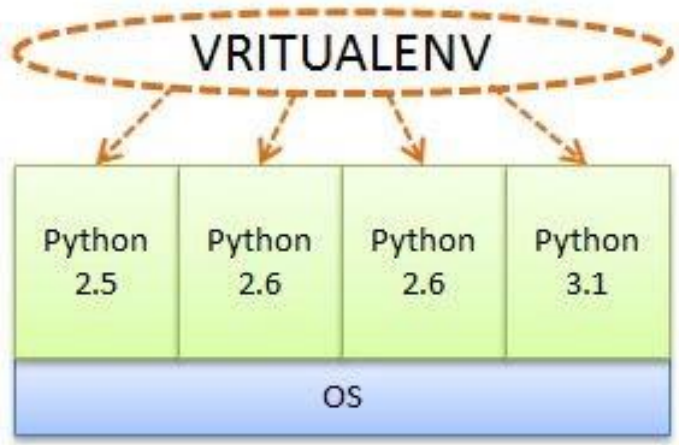


Step2. Create Virtual Env.

What is Virtual Environment?

Python Virtual Environment

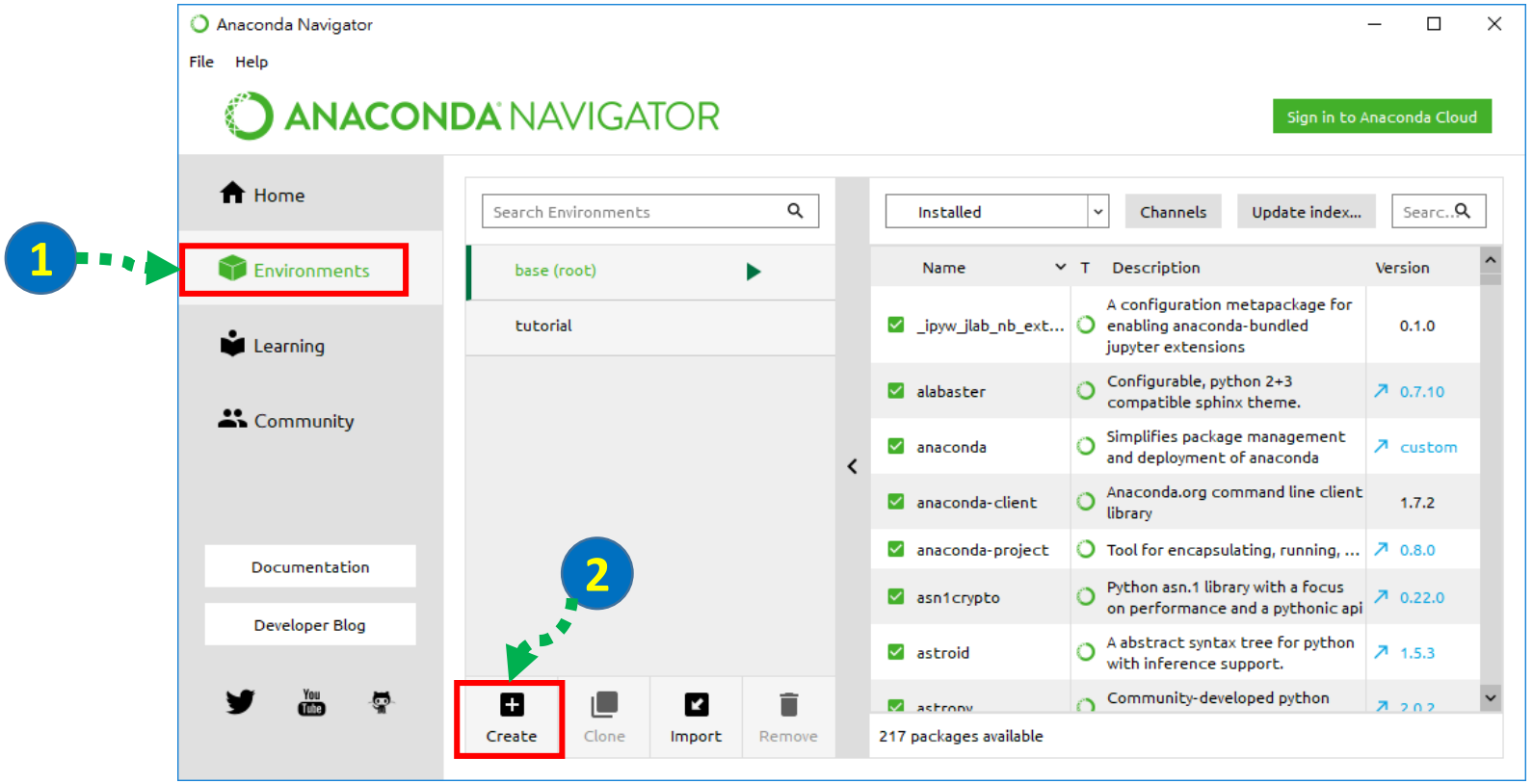
- The main purpose of Python virtual environments is to create an isolated environment for Python projects.
- This means that each project can have its own dependencies, regardless of what dependencies every other project has.



Create Virtual Environment

Step. 1

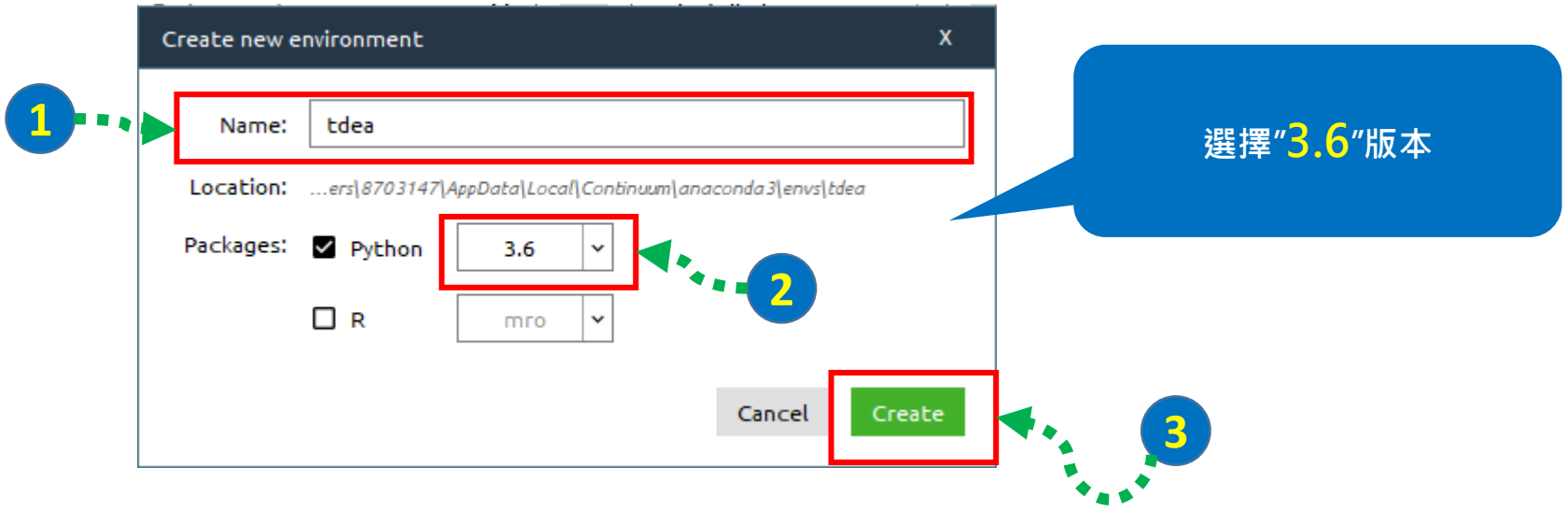
- Open Anaconda Navigator



Create Virtual Environment

Step. 2

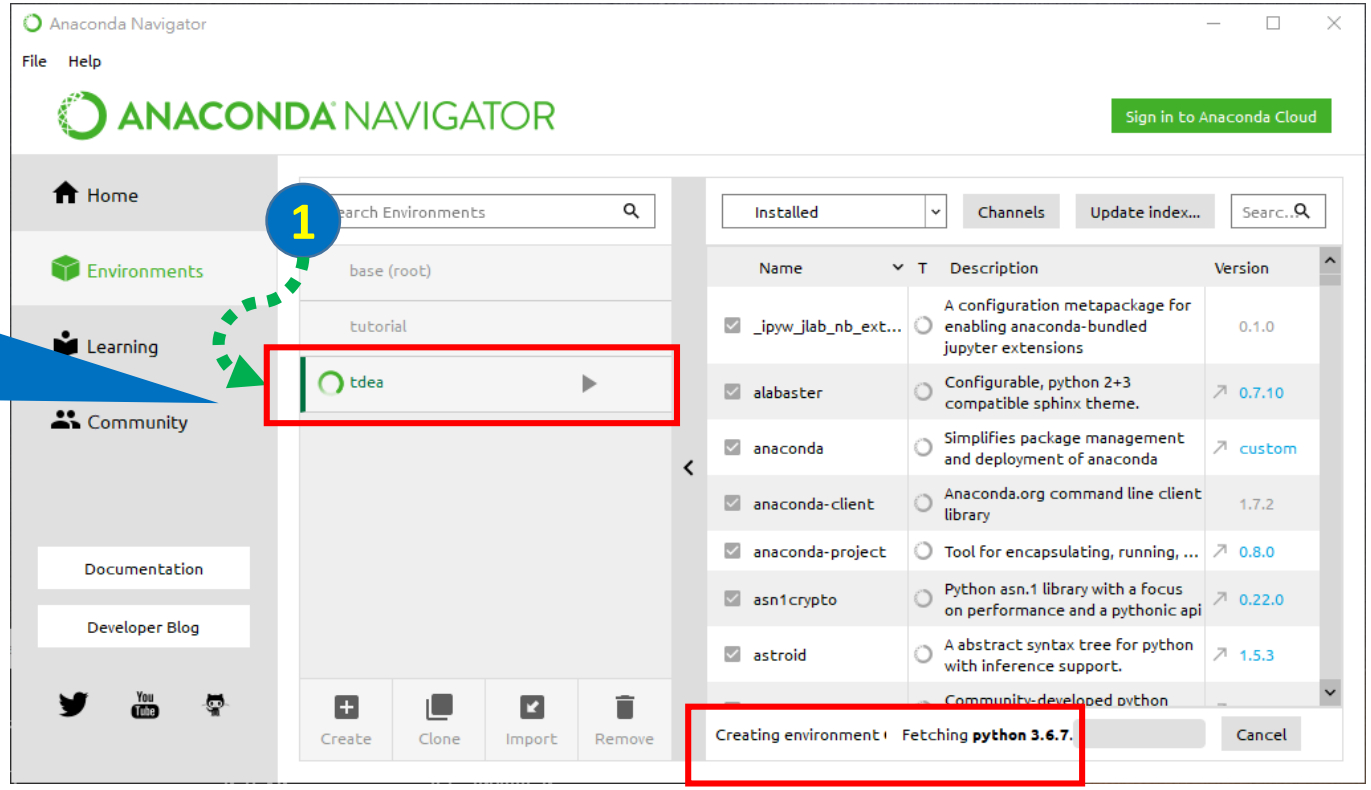
- Open Anaconda Navigator



Create Virtual Environment

Step. 3

- Waiting Anaconda to create environment

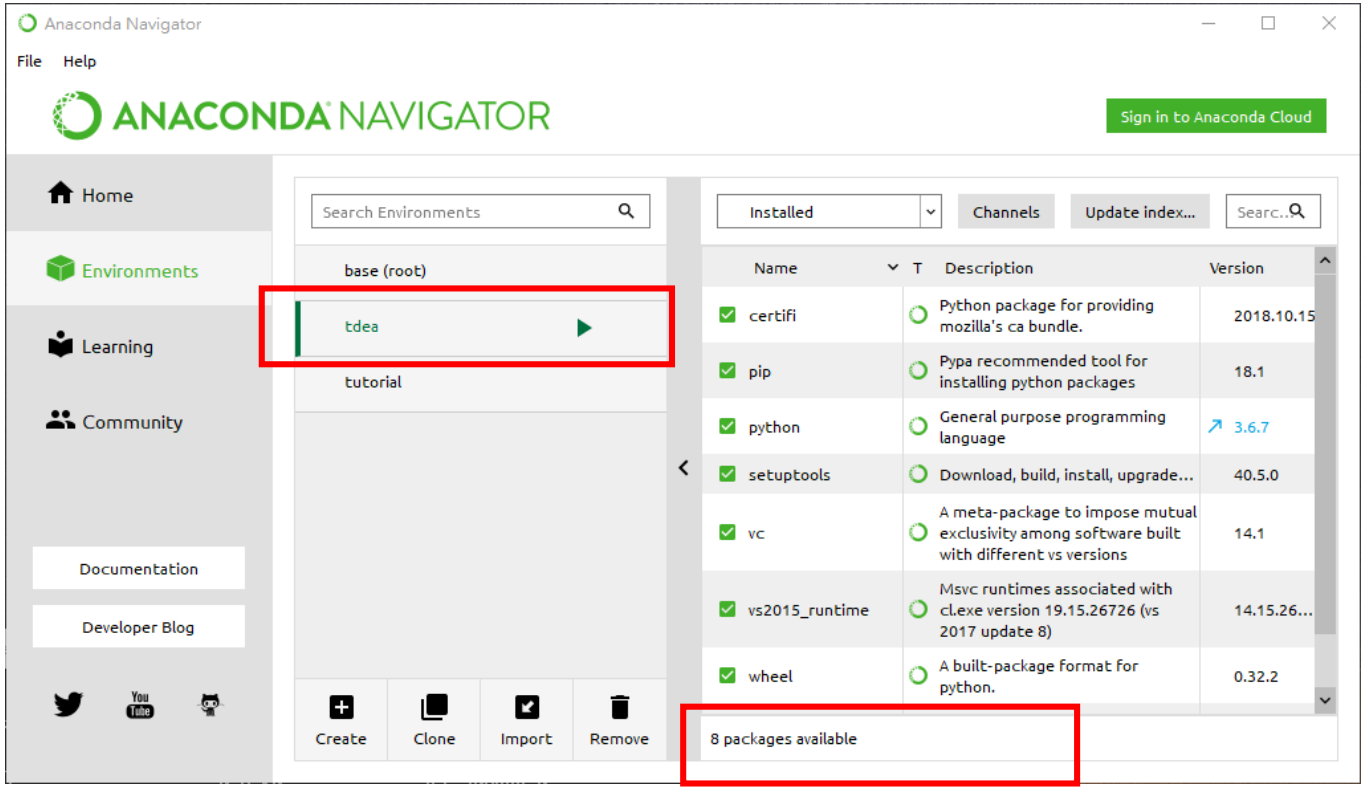


Environment的創建會花一點時間, 確保網路連線的暢通呀!!

Create Virtual Environment

Step. 4

- Anaconda complete environment creation

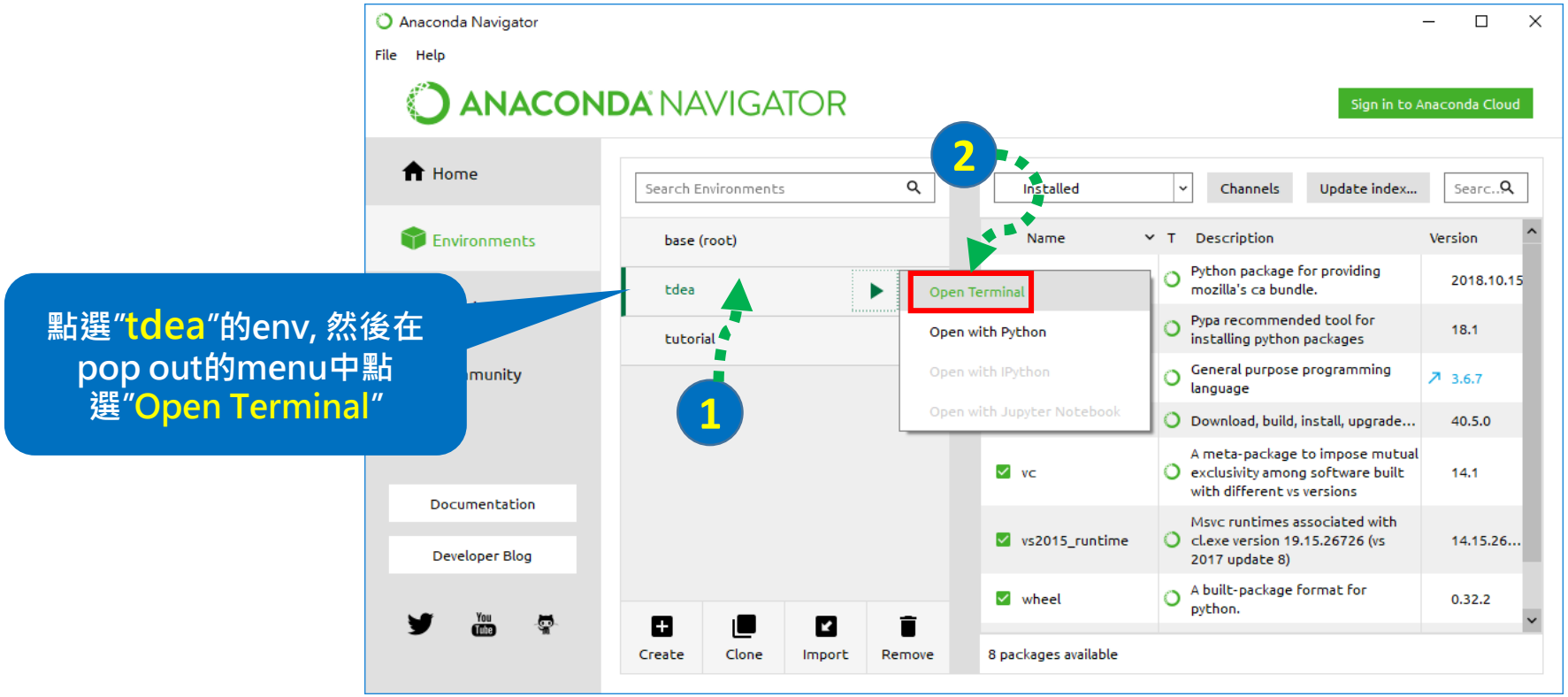


Step3. Install Kafka Client Lib.

Install Kafka Client Library

Step. 1

- Open Virtual Environment Terminal

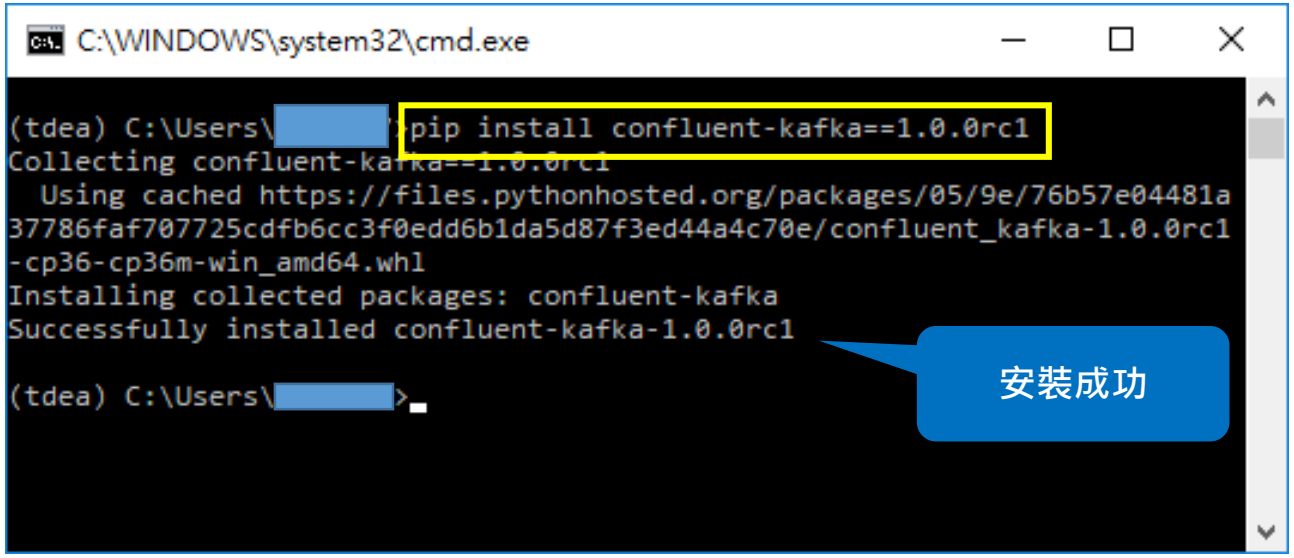


Install Kafka Client Library

Step. 2

- Install “confluent-kafka” library

```
$ pip install confluent-kafka==1.0.0rc1
```



有助教反應在Mac上安裝1.0.0rc1會有錯誤訊息, 如果有相同問題的學員, 可以安裝使用 **confluent-kafka 0.11.6**

```
pip install confluent-kafka==0.11.6
```


The
End