

Anaconda Installation Guide

Distribution for Data Science on Windows and Linux

What is Anaconda?

Anaconda is a free distribution of Python and R designed for data science, numerical analysis, machine learning, and scientific development. It comes with over 250 pre-installed packages, as well as tools like Jupyter Notebook, Spyder, and the environment manager `conda`.

Installation on Windows

Step 1. Download the installer: Visit the official page: <https://www.anaconda.com/products/distribution> and download the Windows (64-bit) version.

Step 2. Run the file: Double-click the downloaded `.exe` file.

Step 3. Select installation options:

- Choose “Just Me”.
- Use the default installation path.
- Check the options:
 - Add Anaconda to my PATH environment variable
 - Register Anaconda as my default Python

Step 4. Install: Click “Install” and wait for the process to finish.

Step 5. Verify the installation:

- Open Anaconda Navigator from the Start Menu.
- Or open Anaconda Prompt and run: `conda --version`

Installation on Linux (Debian, Ubuntu, Fedora, etc.)

Step 1. Open the terminal.

Step 2. Download the installer:

```
wget https://repo.anaconda.com/archive/Anaconda3-2024.02-1-Linux-x86_64.sh
```

Step 3. (Optional) Verify the file:

```
sha256sum Anaconda3-2024.02-1-Linux-x86_64.sh
```

Step 4. Run the installation script:

```
bash Anaconda3-2024.02-1-Linux-x86_64.sh
```

Accept the terms with `yes` and choose an installation path.

Step 5. Activate Anaconda (if necessary):

```
source ~/anaconda3/bin/activate
```

Step 6. Verify installation:

```
conda --version
```

First Steps After Installation

- Run `anaconda-navigator` or `jupyter notebook`.
- Create a new environment:

```
conda create -n my_env python=3.11
```

- Install common libraries:

```
conda install pandas matplotlib scikit-learn
```