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How To Install Anaconda on Ubuntu 20.04

By Rahul — June 3, 2022 ⌚ 4 Mins Read

Anaconda is an open-source platform that is used for R programming and Python. Which contains a large variety of packages and repositories. It is important in its functionality as it provides processing and computing data on a large scale and also to program in python language. The Anaconda is a good platform to program the python applications.

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This article enables us to install the Anaconda on Ubuntu 20.04 in an easy way.

Prerequisites



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```
$ sudo apt update
```

Then install the curl package, which is further required for the downloading the installation script.

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```
$ sudo apt install curl -y
```

Step 1 – Prepare the Anaconda Installer

Now I will go to the /tmp directory and for this purpose, we will use the cd command.

```
$ cd /tmp
```

Next, use the curl command line utility to download the Anaconda installer script from the official site. Visit the Anaconda installer script [download page](#) to check for the latest versions. Then, download the script as below:

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```
$ curl --output anaconda.sh https://repo.anaconda.com/archive/Anaconda3-2022.05-Linux-x86_64.sh
```

To check the script SHA-256 checksum, I will use this command with the file name,



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```
$ sha256sum anaconda.sh
```

Output:

```
a7c0afe862f6ea19a596801fc138bde0463abcbce1b753e8d5c474b506a2db2d ana
```

Check if the hash code is matching with code shown on the download page.

Step 2 – Installing Anaconda on Ubuntu

Your system is ready to install Anaconda. Let's move to the text step and execute the Anaconda installer script as below:

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```
$ bash anaconda.sh
```

Follow the wizard instructions to complete Anaconda installation process. You need to provide inputs during installation process as described below:

01. Use above command to run the downloaded installer script with the **bash** shell.

```
tecadmin@ubuntu2004:~$ bash anaconda.sh

Welcome to Anaconda3 2021.05

In order to continue the installation process, please review the license
agreement.
Please, press ENTER to continue
>>>
```

Run Anaconda Installer Script in A Shell



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```
Do you accept the license terms? [yes|no]
[no] >>> yes
```

Accept License Agreement

03. Verify the directory location for Anaconda installation on Ubuntu 20.04 system. Just hit **Enter** to continue installer to that directory.

```
Anaconda3 will now be installed into this location:
/home/tecadmin/anaconda3

- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below

[/home/tecadmin/anaconda3] >>>
```

Continue the Anaconda Installer Process

04. Type “yes” to initialize the Anaconda installer on your system.

```
Preparing transaction: done
Executing transaction: done
installation finished.
Do you wish the installer to initialize Anaconda3
by running conda init? [yes|no]
[no] >>> yes
```

Intialize Anaconda during Installation

05. You will see the below message on successful Anaconda installation on Ubuntu 20.04 system.

```
Thank you for installing Anaconda3!

=====

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designed to be used with Anaconda. Download now and have the best data
tools at your fingertips.

PyCharm Pro for Anaconda is available at: https://www.anaconda.com/pycharm
tecadmin@ubuntu2004:~$
```



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The Anaconda Installation Completed Successfully on your Ubuntu system. Installer added the environment settings in `.bashrc` file. Now, activate the installation using following command:

```
$ source ~/.bashrc
```

Now we are in the default base of the programming environment. To verify the installation we will open conda list.

```
(base) tecadmin@ubuntu2004:~$ conda list
```

Output:

```
# packages in environment at /home/tecadmin/anaconda3:
#
# Name                                Version                                Build      Channel
_ipyw_jlab_nb_ext_conf               0.1.0                                py39h06a4308_1
_libgcc_mutex                         0.1                                  main
_openmp_mutex                        4.5                                  1_gnu
aiohttp                              3.8.1                                py39h7f8727e_1
aiosignal                            1.2.0                                pyhd3eb1b0_0
alabaster                            0.7.12                               pyhd3eb1b0_0
anaconda                             2022.05                              py39_0
anaconda-client                      1.9.0                                py39h06a4308_0
anaconda-navigator                   2.1.4                                py39h06a4308_0
anaconda-project                     0.10.2                               pyhd3eb1b0_0
anyio                                 3.5.0                                py39h06a4308_0
appdirs                              1.4.4                                pyhd3eb1b0_0
...
...
```

How to Update Anaconda



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You can easily update the Anaconda and packages using the conda binary. To upgrade the Anaconda on your system, type:

```
(base) tecadmin@ubuntu2004:~$ conda update --all
```

Output:

```
Collecting package metadata (current_repodata.json): done
Solving environment: done
```

```
## Package Plan ##
```

```
environment location: /home/tecadmin/anaconda3
```

The following packages will be downloaded:

package	build	
----- -----		
anaconda-navigator-2.2.0	py39h06a4308_0	5.1 MB
conda-4.13.0	py39h06a4308_0	895 KB
conda-build-3.21.9	py39h06a4308_0	533 KB
----- -----		
	Total:	6.5 MB

The following packages will be UPDATED:

anaconda-navigator	2.1.4-py39h06a4308_0 --> 2.2.0
conda	4.12.0-py39h06a4308_0 --> 4.13.
conda-build	3.21.8-py39h06a4308_2 --> 3.21.

Proceed ([y]/n)? y



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Conclusion

You can use Anaconda to manage scientific computing, workloads for data science, analytics, and large-scale data processing. In this article, we have learned how to install anaconda on Ubuntu from its original source.

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