# Python Environment Setup on Ubuntu

# 1. Install request package

```
$ sudo apt-get update && apt-get upgrade
$ sudo apt-get install wget vim
```

# 2. Install Python3

### Miniconda

#### 1. Download installer

```
$ wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-
x86_64.sh
```

### 2. Change the access permissions of files

```
$ chmod +x Miniconda3-latest-Linux-x86_64.sh
```

## 3. Install

```
# install miniconda in ~/opt
$ mkdir -p ~/opt
$ bash Miniconda3-latest-Linux-x86_64.sh
```

```
The following packages are included in this distribution that relate to cryptography:

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

Miniconda3 will now be installed into this location:
/root/miniconda3

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

[/root/miniconda3] >>> /root/opt/miniconda3
PREFIX=/root/opt/miniconda3
Unpacking payload ...
Collecting package metadata (current_repodata.json): done
Solving environment: done
```

```
Preparing transaction: done
by running conda init? [yes|no]
[no] >>> yes
              /root/opt/miniconda3/bin/conda-env
              /root/opt/miniconda3/bin/activate
              /root/opt/miniconda3/bin/deactivate
             /root/opt/miniconda3/etc/profile.d/conda.sh
             /root/opt/miniconda3/etc/fish/conf.d/conda.fish
             /root/opt/miniconda3/shell/condabin/Conda.psm1
             /root/opt/miniconda3/shell/condabin/conda-hook.ps1
             /root/opt/miniconda3/lib/python3.7/site-packages/xontrib/conda.xsh
             /root/opt/miniconda3/etc/profile.d/conda.csh
modified
              /root/.bashrc
==> For changes to take effect, close and re-open your current shell. <==
If you'd prefer that conda's base environment not be activated on startup,
   set the auto_activate_base parameter to false:
root@d1693f70f58d:~#
```

#### 4. Activate conda

bash

#### 1. bash

• Copy conda initialize in ~/.bash\_profile to ~/.bashrc, as below:

Activate

```
$ source ~/.bashrc # or open new Terminal
```

```
root@b7dff1e19232:~# source ~/.bashrc
(base) root@b7dff1e19232:~# conda -V
conda 4.7.12
(base) root@b7dff1e19232:~# python3 -V
Python 3.7.4
(base) root@b7dff1e19232:~# pip -V
pip 19.3.1 from /root/opt/miniconda3/lib/python3.7/site-packages/pip (python 3.7)
(base) root@b7dff1e19232:~#
```