

Instalación de Conda & Jupyter-Notebook

Workshop self-driving Car: OpenCV & Python

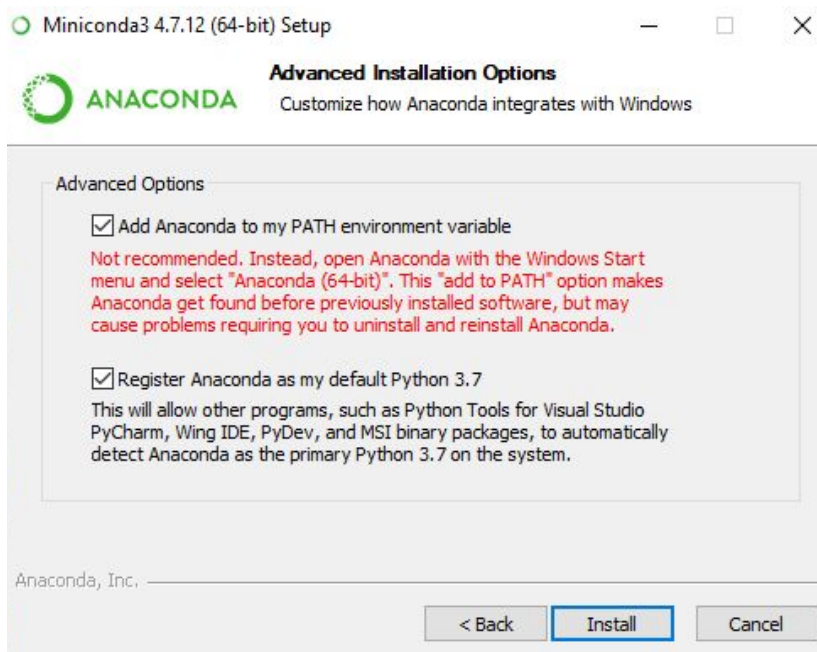
Windows

- Descargar miniconda: <https://docs.conda.io/en/latest/miniconda.html>

Windows installers

Windows			
Python version	Name	Size	SHA256 hash
Python 3.7	Miniconda3 Windows 64-bit	51.5 MiB	f18060cc0bb50ae75e4d602b7ce35197c8e31e812880e9b758594f1bb46ab45
	Miniconda3 Windows 32-bit	54.0 MiB	7c30778941d2bba03531ba269a78a108b01fa366530290376e7c3b4673c66ba
Python 2.7	Miniconda2 Windows 64-bit	50.9 MiB	8647c54056f11842c37854edeff4d20bc1fbdad8b88d9d34d76fda1630e64846
	Miniconda2 Windows 32-bit	48.7 MiB	ed106228d6a4610b599df965dd6d9bb659329a17e3d693e3274b20291a7c6f94

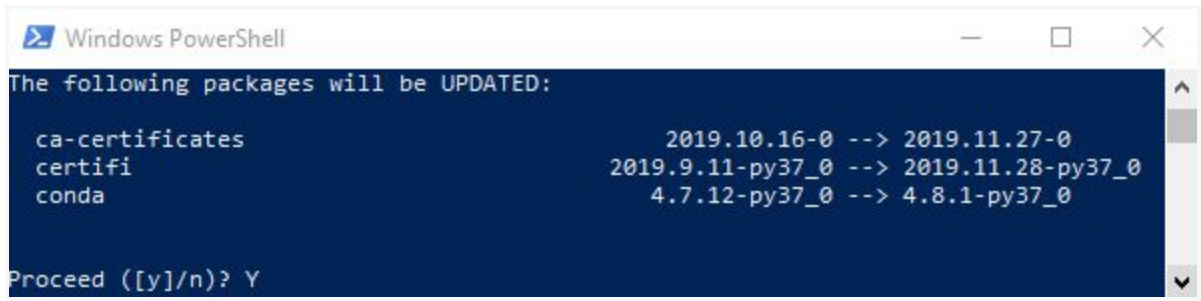
- Tener presente en activar la casilla para añadir la variable de entorno a PATH



- Abrir Windows PowerShell, verificar la versión de conda, e ingresar el comando para instalar Jupyter Notebook. Ingresar la letra Y para continuar con la instalación cuando lo pregunte.

```

Windows PowerShell
PS C:\Users\Alejandro> conda --version
conda 4.7.12
PS C:\Users\Alejandro> conda install jupyter notebook
  
```



```

Windows PowerShell

The following packages will be UPDATED:

ca-certificates                2019.10.16-0 --> 2019.11.27-0
certifi                        2019.9.11-py37_0 --> 2019.11.28-py37_0
conda                          4.7.12-py37_0 --> 4.8.1-py37_0

Proceed ([y]/n)? Y

```

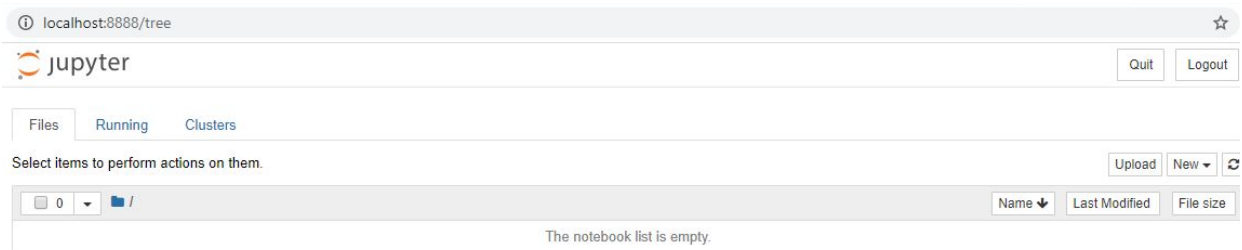
- Crear una carpeta desde el PowerShell y Ejecutar jupyterNotebook:

```

/> mkdir notebooks
/> cd notebooks
/> conda jupyter-notebook

```

- Les abrirá en el navegador que seleccionen la interfaz de JupyterNotebook



- Vamos a detener la consola para instalar un plugin. En la consola PowerShell, usar la combinación de teclas Ctrl + C. Luego ingresar el siguiente comando:

```

/> conda install nb_conda

```

Ingresar la letra Y para continuar con la instalación cuando lo pregunte.

- Ejecutar nuevamente jupyterNotebook y verificar que aparezca la pestaña “conda”. Ignorar el mensaje de error

```

/> jupyter-notebook

```

localhost:8888/tree#

jupyter

Files Running Clusters Conda

2 Conda environments

Action	Name	Default?	Directory
	root	✓	C:\Users\Alejandro\Miniconda3
	Miniconda3	✓	C:\Users\Alejandro\Miniconda3

Available packages

Search...

97 installed packages in environment "root"

Name	Version	Channel

Name	Version	Build	Available
<input type="checkbox"/> asn1crypto	1.2.0	py37_0	
<input type="checkbox"/> attrs	19.3.0	py_0	
<input type="checkbox"/> backcall	0.1.0	py37_0	
<input type="checkbox"/> bleach	3.1.0	py37_0	
<input type="checkbox"/> ca-certificates	2019.11.27	0	

- Seleccionar “root” y en la parte inferior usar el buscador para instalar los siguientes paquetes:
 - opencv
 - matplotlib
 - numpy

Linux

- Descargar miniconda: <https://docs.conda.io/en/latest/miniconda.html>

Linux installers

Linux

Python version	Name	Size	SHA256 hash
Python 3.7	Miniconda Linux 64-bit	68.5 MiB	bfe34e1fa28d6d75a7ad05fd02fa5472275673d5f5621b77380898dee1be15d2
	Miniconda3 Linux 32-bit	62.7 MiB	f387eded3fa4ddc3104b7775e62d59065b30205c2758a8b86b4c27144adafcc4
Python 2.7	Miniconda2 Linux 64-bit	46.0 MiB	383fe7b6c2574e425eee3c65533a5101e68a2d525e66356844a80aa02a556695
	Miniconda2 Linux 32-bit	39.0 MiB	2e20ac4379ca5262e7612f84ad26b1a2f2782d0994facdec28e0baf51749979

- Usar el siguiente comando para instalar:


```
$ sh Miniconda3-latest-Linux-x86_64.sh
```
- Leer toda la licencia. Para la saltar la lectura presionar la tecla “q”.

```

sh Miniconda3-latest-Linux-x86_64.sh

=====
Miniconda End User License Agreement
=====

Copyright 2015, Anaconda, Inc.

All rights reserved under the 3-clause BSD License:

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice, this
    list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice, th
    is list of conditions and the following disclaimer in the documentation and/or o
    ther materials provided with the distribution.
    * Neither the name of Anaconda, Inc. ("Anaconda, Inc.") nor the names of its c
    ontributors may be used to endorse or promote products derived from this softwar
    e without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WA
RRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
--More--

```

- Luego aparecerá la confirmación para la instalación, escribir “yes” para continuar.

```

sh Miniconda3-latest-Linux-x86_64.sh

IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Notice of Third Party Software Licenses
=====

Miniconda contains open source software packages from third parties. These are a
vailable on an "as is" basis and subject to their individual license agreements.
These licenses are available in Anaconda Distribution or at http://docs.anacond
a.com/anaconda/pkg-docs. Any binary packages of these third party tools you obta
in via Anaconda Distribution are subject to their individual licenses as well as
the Anaconda license. Anaconda, Inc. reserves the right to change which third p
arty tools are provided in Miniconda.

Cryptography Notice
=====

This distribution includes cryptographic software. The country in which you curr
ently reside may have restrictions on the import, possession, use, and/or re-exp
ort to another country, of encryption software. BEFORE using any encryption soft
ware, please check your country's laws, regulations and policies concerning the

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

```

- Recomendamos usar los parámetros por defecto que nos preguntará durante la instalación, para ello presionar “enter” y “yes” en los casos pertinentes.


```

sh Miniconda3-latest-Linux-x86_64.sh

a.com/anaconda/pkg-docs. Any binary packages of these third party tools you obtain via Anaconda Distribution are subject to their individual licenses as well as the Anaconda license. Anaconda, Inc. reserves the right to change which third party tools are provided in Miniconda.

Cryptography Notice
=====

This distribution includes cryptographic software. The country in which you currently reside may have restrictions on the import, possession, use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check your country's laws, regulations and policies concerning the

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

Miniconda3 will now be installed into this location:
/home/aldajo92/miniconda3

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

[/home/aldajo92/miniconda3] >>>

```

- Recomendamos remover el siguiente bloque de .bashrc:

```

# >>> conda initialize >>>
# !! Contents within this block are managed by 'conda init' !!
__conda_setup="$('/home/aldajo92/miniconda3/bin/conda' 'shell.bash'
'hook' 2> /dev/null)"
if [ $? -eq 0 ]; then
    eval "$__conda_setup"
else
    if [ -f "/home/aldajo92/miniconda3/etc/profile.d/conda.sh" ];
then
        . "/home/aldajo92/miniconda3/etc/profile.d/conda.sh"
    else
        export PATH="/home/aldajo92/miniconda3/bin:$PATH"
    fi
fi
unset __conda_setup
# <<< conda initialize <<<

```

- Iniciar una nueva consola y ejecutar:

```
$ source ~/miniconda3/bin/activate
```

Así podremos tener acceso al comando conda.

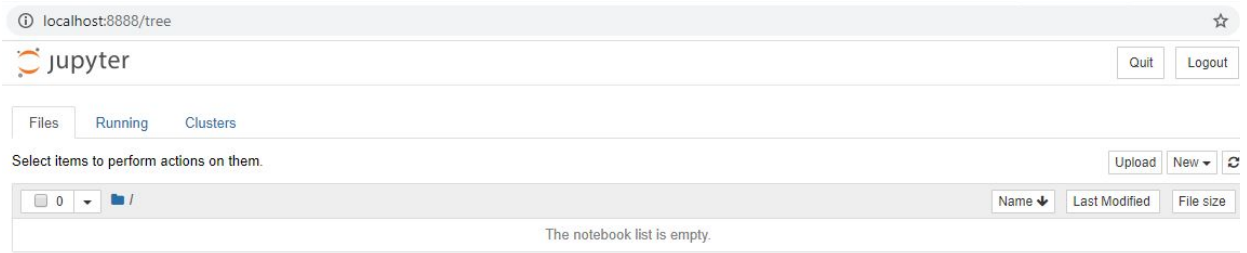
- Crear una carpeta desde la Terminal y Ejecutar jupyterNotebook:

```

$ mkdir notebooks
$ cd notebooks
$ conda jupyter-notebook

```

- Les abrirá en el navegador la interfaz de Jupyter Notebook



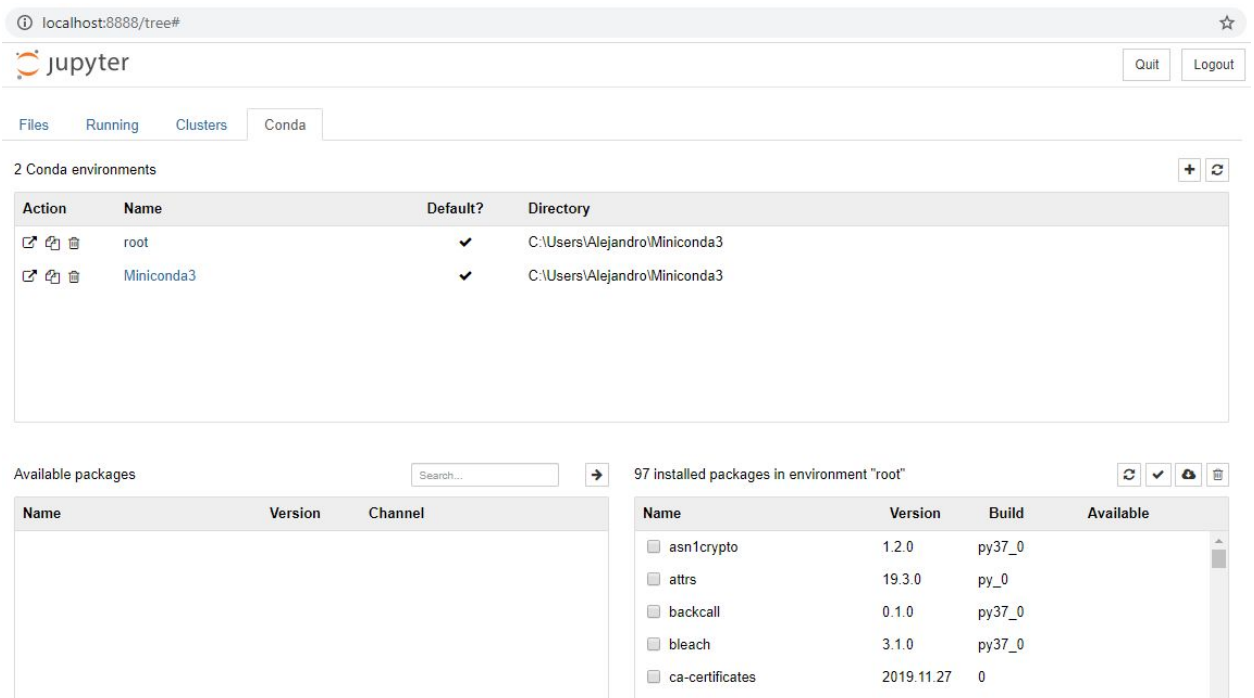
- Vamos a detener la consola para instalar un plugin. En Terminal, usar la combinación de teclas Ctrl + C. Luego ingresar el siguiente comando:

```
$ conda install nb_conda
```

Ingresar la letra Y para continuar con la instalación cuando lo pregunte.

- Ejecutar nuevamente jupyter Notebook y verificar que aparezca la pestaña “conda”. Ignorar el mensaje de error

```
$ jupyter-notebook
```



- Seleccionar “root” y en la parte inferior usar el buscador para instalar los siguientes paquetes:
 - opencv
 - matplotlib
 - numpy

Mac

El proceso de instalación en Mac es similar a Linux, en caso de tener algún inconveniente, informar a los organizadores.

Referencias

- <https://classroom.udacity.com/courses/ud1111>