

INSTALACIÓN DE HERRAMIENTAS

INSTALACIÓN SIMULADORES DE AUTOS

- Descargar el Emulador de Udacity según el sistema operativo:
 - Windows:
 - <https://github.com/udacity/self-driving-car-sim/releases/tag/v1.45>
 - Mac:
 - <https://github.com/endymioncheung/CarND-MacCatalinaSimulator>
 - Linux:
 - <https://github.com/udacity/self-driving-car-sim/releases/tag/v1.45>
 - Descargar el emulador DonkeyCar:
 - <https://github.com/tawnkramer/gym-donkeycar/releases/tag/v20.11.17>
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INSTALACIÓN CONDA

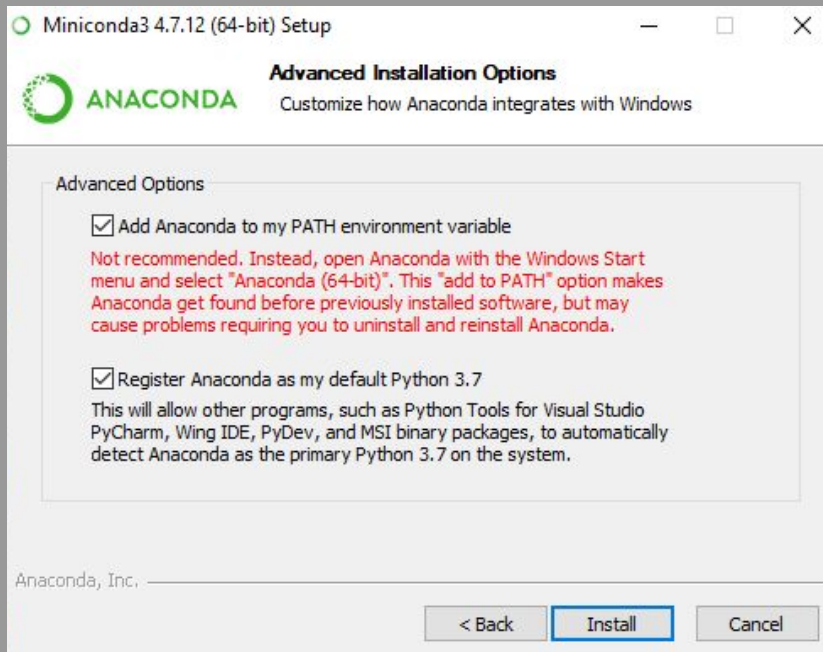
A continuación se presenta el proceso de instalación para los sistemas operativos.

WINDOWS:

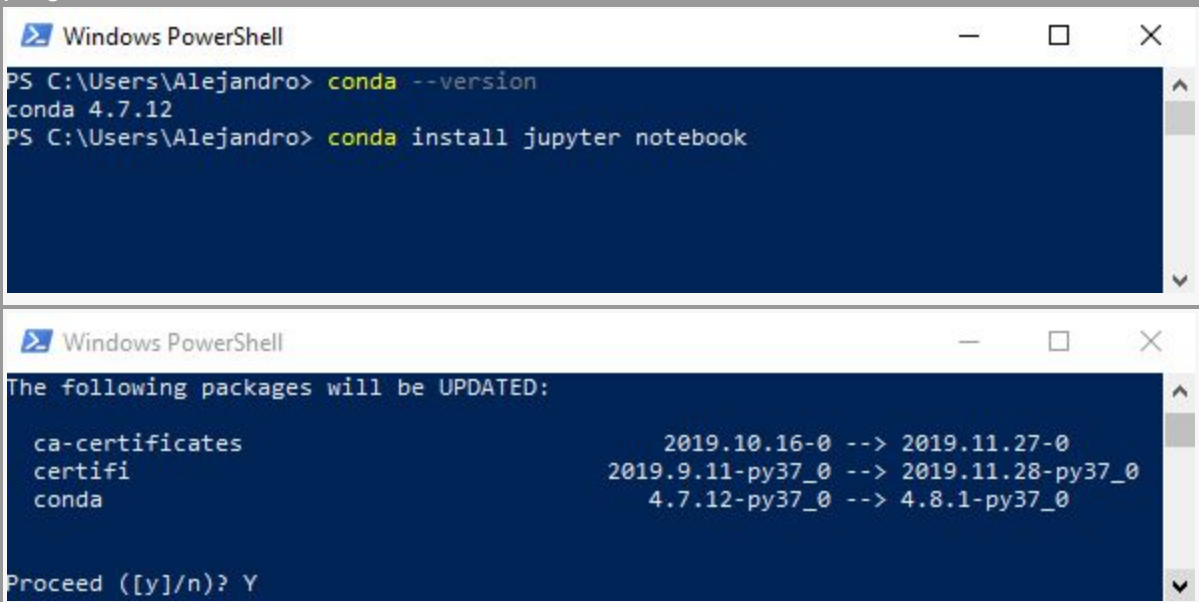
- Descargar miniconda: <https://docs.conda.io/en/latest/miniconda.html>

Windows installers			
Windows			
Python version	Name	Size	SHA256 hash
Python 3.7	Miniconda3 Windows 64-bit	51.5 MiB	f10660cc0bb50ae75e4d602b7ce35197c9e31e81288d069b758594f1b46ab45
	Miniconda3 Windows 32-bit	54.0 MiB	7c30778941d2bba03531ba269a78a108b01fa366530290376e7c3b46793c66ba
Python 2.7	Miniconda2 Windows 64-bit	50.9 MiB	8647c54058f11842c37854edeff4d20bc1fbdad8b88d9d34d76fda1630e64846
	Miniconda2 Windows 32-bit	48.7 MiB	0d106228d6a4e10b599df965dd6d9bb659329a17e3d693e3274b20291a7c6f94

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



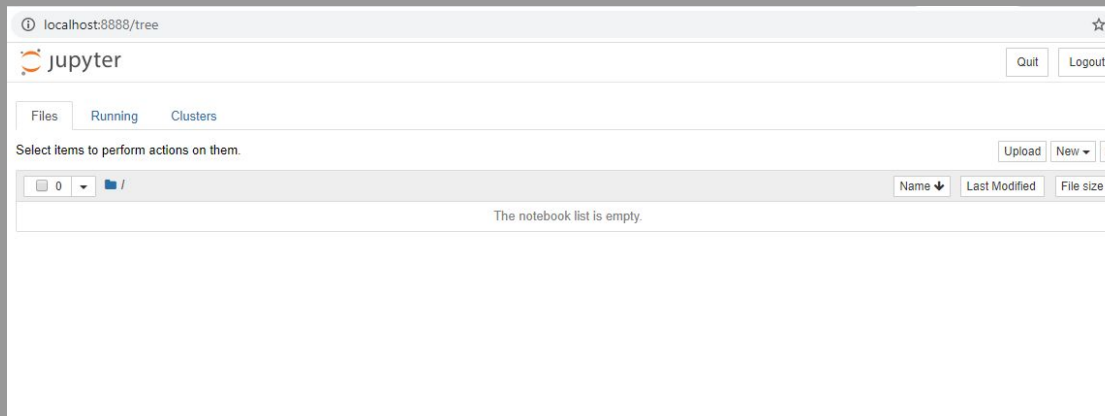
- Abrir Windows PowerShell, verificar la versión de conda, e ingresar el comando para instalar Jupyter Notebook. Ingresar la letra Y para continuar con la instalación cuando lo pregunte.



- Crear una carpeta desde el PowerShell y Ejecutar jupyter Notebook:

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

- Les abrirá en el navegador que seleccionen la interfaz de Jupyter Notebook



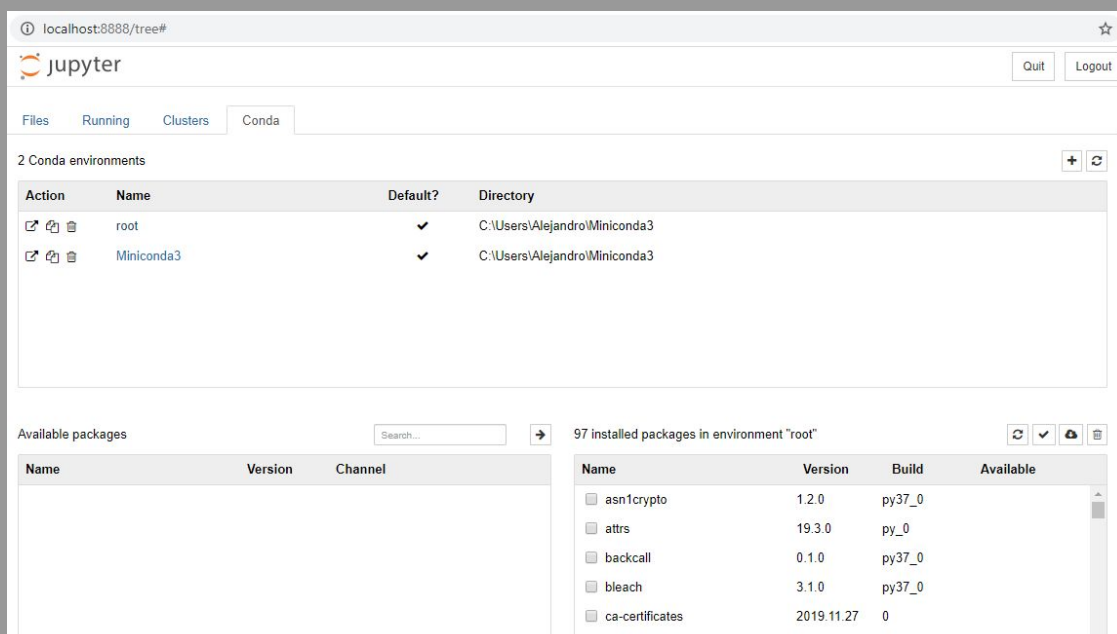
- Vamos a detener la consola para instalar un plugin. En la consola PowerShell, usar la combinación de teclas Ctrl + C. Luego ingresar el siguiente comando:

```
/> 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
```



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

MAC & LINUX:

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

- 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	bfe34e1fa28d6d75a7ad05fd02fa5472275673d5f5621b77380998dee1be15d2
	Miniconda3 Linux 32-bit	62.7 MiB	f387eded3fa4ddc3104b7775e62d59065b30205c2758a8b06b4c27144adafcc4
Python 2.7	Miniconda2 Linux 64-bit	46.0 MiB	383fe7b6c2574e425eee3c65533a5101e68a2d525e66356844a80aa02a556695
	Miniconda2 Linux 32-bit	39.0 MiB	2e20ac4379ca5262e7612f84ad26b1a2f2782d6994facdec28e0baf51749979

- 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

=====
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--More--
```

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


```
sh Miniconda3-latest-Linux-x86_64.sh

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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

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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] >>> 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/aldaajo92/miniconda3/bin/conda' 'shell.bash' 'hook'
2> /dev/null)"
if [ $? -eq 0 ]; then
    eval "$__conda_setup"
else
    if [ -f "/home/aldaajo92/miniconda3/etc/profile.d/conda.sh" ]; then
        . "/home/aldaajo92/miniconda3/etc/profile.d/conda.sh"
    else
        export PATH="/home/aldaajo92/miniconda3/bin:$PATH"
    fi
fi
unset __conda_setup
# <<< conda initialize <<<
```

- Iniciar una nueva consola y ejecutar:

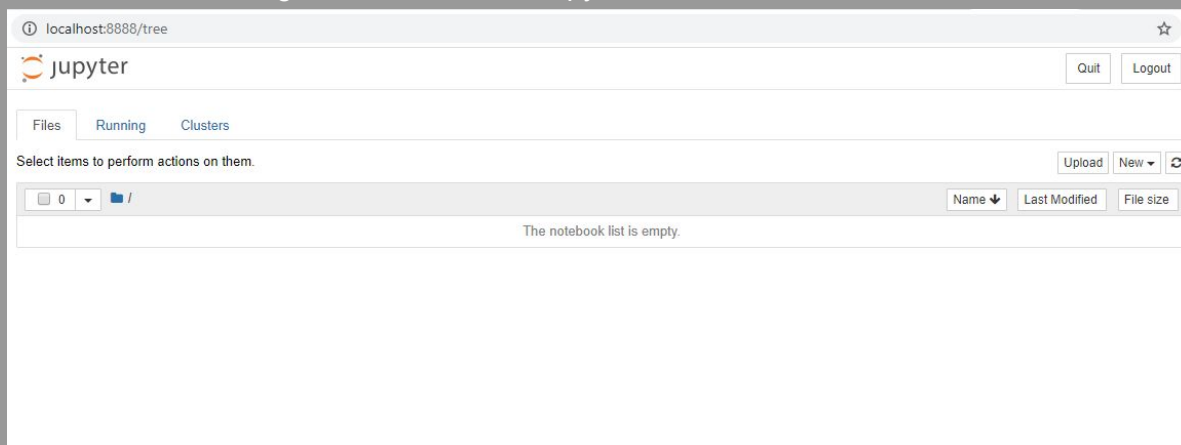
```
$ source ~/miniconda3/bin/activate
```

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 JupyterNotebook



- 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
```

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

- ```
$ jupyter-notebook
```

- <https://classroom.udacity.com/courses/ud1111>
- <https://github.com/tawnkramer/gym-donkeycar>