

Instalación Jupyter Notebook en Windows y Linux

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 - Anaconda: Windows
 - Anaconda: Linux

2 Jupyter Notebook

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- Dependencias
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Descargar Anaconda (2.9 Gb)



Figure: <https://www.anaconda.com/>

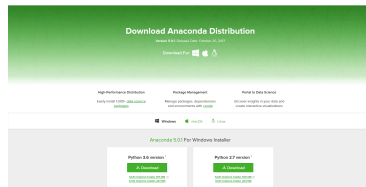


Figure: <https://www.anaconda.com/download/>

Cómo instalar Anaconda en Windows? Siguiente, siguiente, siguiente... Terminar.

Para instalar Anaconda en Linux, hay que seguir estos pasos:

- 1 Ejecutar el script descargado.

```
$ ./Anaconda3-5.0.1-Linux-{arch}.sh
```

- 2 Aceptar los Términos de licencia.
- 3 Escribir (si se quiere cambiar) la ruta de instalación.
- 4 Seleccionar si se quiere añadir Anaconda a la variable **PATH**.

Anaconda: Linux II

```
langel@angel: /opt/anaconda
If you want to update an existing installation, use the -u option.
langel@angel:/opt/anaconda $ ./Anaconda3-5.0.1-Linux-x86_64.sh

Welcome to Anaconda3 5.0.1

In order to continue the installation process, please review the license
agreement.
Please, press ENTER to continue
>>>
=====
Anaconda End User License Agreement
=====

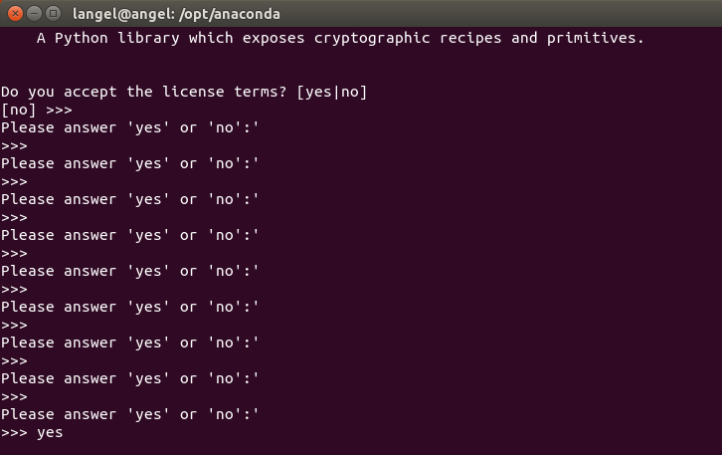
Copyright 2015, Anaconda, Inc.

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
```

Figure: Ejecución del script

A terminal window with a dark background and light-colored text. The window title bar shows a standard Linux window icon and the text 'langel@angel: /opt/anaconda'. The terminal content shows the Anaconda installation process, starting with a description of the library and a series of prompts to accept the license terms. The user responds with 'yes' at the end.

```
langel@angel: /opt/anaconda
A Python library which exposes cryptographic recipes and primitives.

Do you accept the license terms? [yes|no]
[no] >>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>>
Please answer 'yes' or 'no': '
>>> yes
```

Figure: Términos de licencia

Anaconda: Linux II

```
langel@angel: /opt/anaconda
Please answer 'yes' or 'no':
>>> yes

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

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

[/home/langel/anaconda3] >>> /opt/anaconda/anaconda3
PREFIX=/opt/anaconda/anaconda3
installing: python-3.6.3-hc9025b9_1 ...
Python 3.6.3 :: Anaconda, Inc.
installing: ca-certificates-2017.08.26-h1d4fec5_0 ...
installing: conda-env-2.6.0-h36134e3_1 ...
installing: intel-openmp-2018.0.0-h15fc484_7 ...
installing: libgcc-ng-7.2.0-h7cc24e2_2 ...
installing: libgfortran-ng-7.2.0-h9f7466a_2 ...
installing: libstdcxx-ng-7.2.0-h7a57d05_2 ...
installing: bzip2-1.0.6-h0376d23_1 ...
installing: expat-2.2.4-hc00ebd1_1 ...
installing: gmp-6.1.2-hb3b607b_0 ...
installing: graphite2-1.3.10-hc526e54_0 ...
```

Figure: Ruta de instalación

Anaconda: Linux II

```
langel@angel: /opt/anaconda
installing: conda-build-3.0.27-py36h940a66d_0 ...
installing: jupyterlab_launcher-0.4.0-py36h4d8058d_0 ...
installing: numpydoc-0.7.0-py36h18f165f_0 ...
installing: widgetsnbextension-3.0.2-py36hd01bb71_1 ...
installing: anaconda-navigator-1.6.9-py36h11ddaaa_0 ...
installing: ipywidgets-7.0.0-py36h7b55c3a_0 ...
installing: jupyterlab-0.27.0-py36h86377d0_2 ...
installing: spyder-3.2.4-py36hbe6152b_0 ...
installing: _ipyw_jlab_nb_ext_conf-0.1.0-py36he11e457_0 ...
installing: jupyter-1.0.0-py36h9896ce5_0 ...
installing: anaconda-5.0.1-py36hd30a520_1 ...
installation finished.
Do you wish the installer to prepend the Anaconda3 install location
to PATH in your /home/langel/.bashrc ? [yes|no]
[no] >>> yes

Appending source /opt/anaconda/anaconda3/bin/activate to /home/langel/.bashrc
A backup will be made to: /home/langel/.bashrc-anaconda3.bak

For this change to become active, you have to open a new terminal.

Thank you for installing Anaconda3!
langel@angel:/opt/anaconda $
```

Figure: Variable PATH

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Jupyter Notebook I

Una vez instalado Anaconda, se puede ejecutar el siguiente comando para lanzar Jupyter:



```
$ jupyter notebook
```



```
$ jupyter -notebook.exe
```

Jupyter Notebook II

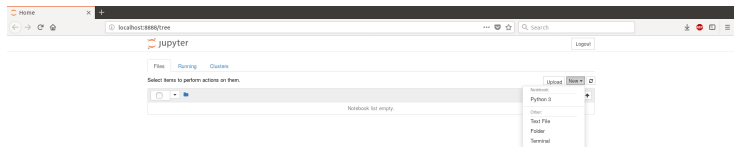


Figure: Pantalla principal Jupyter

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Para instalar el Kernel del lenguaje Go (<https://github.com/gopherdata/gophernotes>) es necesario instalar las siguientes dependencias:

- 1 Go (1.9): <https://golang.org/dl/>
- 2 Jupyter Notebook
- 3 ZeroMQ (4.X.X): <http://zeromq.org/intro:get-the-software>

Gophernotes: Dependencias II



The screenshot shows the zeromq.org website with the following content:

on the distribution:

- [Linux: get, no DRAFT APIs](#)
- [Linux: get, with DRAFT APIs](#)
- [Linux: stable release, no DRAFT APIs](#)
- [Linux: stable release, with DRAFT APIs](#)

Add the repository of your choice by clicking on the appropriate distribution and version, and then follow "Go to download repository". That is the URL of the repository. Remember to add the GPG key.

For example, to add Debian 9 and install the development packages for libzmq from the latest stable release without DRAFT APIs:

```
echo "deb http://download.openeu.org/repositories/network/messaging/r2\nwget http://download.openeu.org/repositories/network/messaging/zeromq-get\napt-get install libzmq-dev"
```

pkg-config can be used to easily integrate in your application's build system.

Mac OSX via Brew

You need Brew installed and configured <https://brew.sh/>

```
brew install zmq
```

cmake and python are also available.

Current Stable Release 4.2.2

The current 4.x stable release is v4.2.2, from 2017/02/18. [\(what changed?\)](#)

- [POSIX tutorial](#) / [Windows resources](#)
- [Windows installers](#)

Check your language binding and see whether it already supports ZeroMQ v4.x. We recommend this release to anyone developing new applications with ZeroMQ. All 4.x releases aim for compatibility with stable releases back to 2.2.0.

Legacy Stable Release 4.1.6

The legacy 4.x stable release is v4.1.6, from 2016/11/11. [\(what changed?\)](#)

- [POSIX tutorial](#) / [Windows resources](#)
- [Windows installers](#)

Check your language binding and see whether it already supports ZeroMQ v4.x. We recommend upgrading to 4.2.x. All 4.x releases aim for compatibility with stable releases back to 2.2.0.

Legacy Stable Release 4.0.8

The legacy 4.0.x stable release is v4.0.8, from 2016/09/17. [\(what changed?\)](#)

- [POSIX tutorial](#) / [Windows resources](#)
- [Windows installers](#)

Check your language binding and see whether it already supports ZeroMQ v4.x. We recommend upgrading to 4.1.x. All 4.x releases aim for compatibility with stable releases back to 2.2.0.

Gophernotes: Dependencias II



Gophernotes: Dependencias II

Get The Software - zeroMQ

Installers for Microsoft Windows

[←](#)
[→](#)
[🏠](#)

[zeromq.org/intro/get-the-software](#)

on the distribution:

- latest git, no CRAFT API's
- latest git, with CRAFT API's
- latest stable release, no CRAFT API's
- latest stable release, with CRAFT API's

Add the repository of your choice by clicking on the appropriate distribution and version, and then follow "Go to download repository". That is the URL of the repository. Remember to add the GPG key.

For example, to add Debian 9 and install the development packages for libzmq from the latest stable release without CRAFT API's:

```
echo "deb http://download.opensuse.org/repositories/network/messaging/zeromq4-qt http://download.opensuse.org/repositories/network/messaging/zeromq4-qt" | sudo tee /etc/apt/sources.list.d/zeromq4-qt.list
```

gpg-curl can be used to easily integrate in your application's build system.

Mac OSX via Brew

You need Brew installed and configured <https://brew.sh/>

```
brew install zmq
```

Current Stable Release 4.2.2

The current 4.x stable release is v4.2.2, from 2017/02/18, (what changed?):

- [POSIX tarball](#) | [Windows sources](#)
- [Windows installers](#)

[Check your language binding and see whether it already supports ZeroMQ v4.x.](#) We recommend this. All 4.x releases aim for compatibility with

Installers for Microsoft Windows

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Stable Release 4.0.4

- x64 build for Vista, 7, 8, Windows Server 2008 R2 and newer
- x86 build for Windows XP SP3 and newer

Binaries built with v66, v100, v110, v110_xp, and v120 toolkits. Windows XP 64-bit is not supported for x64 binaries. Library naming scheme follows [Boost library naming](#) for convenience. Packages include release and debug dynamic libraries along with [PDB files](#) for the debug builds. Static libraries are set to appear in the next stable revision.

The following x86 binaries will work under Windows XP SP3:

Compiler	Toolkit	Release	Debug
Visual Studio 2008 SP1	v66	libzmq-v66-at-4_0_4	libzmq-v66-at-gd-4_0_4
Visual Studio 2010 SP1	v100	libzmq-v100-at-4_0_4	libzmq-v100-at-gd-4_0_4
Visual Studio 2012 U4	v110_xp	libzmq-v110_xp-gd-4_0_4	libzmq-v110_xp-gd-gd-4_0_4

Gophernotes Windows: MinGW

En el caso de Windows, además, es necesario compilar ZMQ (incluido junto a Gophernotes) por lo que hay que tener algún compilador con gcc, por ejemplo MinGW-w64.

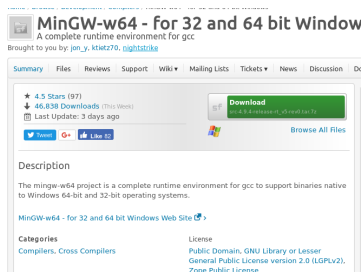


Figure: <https://sourceforge.net/projects/mingw-w64/>

Gophernotes Windows: Compilación

Ya está todo listo para compilar Gophernotes con los siguientes comandos:

```
REM Download w/o building.
go get -d github.com/gopherdata/gophernotes
cd %GOPATH%\src\github.com\gopherdata\gophernotes\zmq-win

REM Build x64 version.
build.bat amd64
move gophernotes.exe %GOPATH%\bin
copy lib-amd64\libzmq.dll %GOPATH%\bin

REM Build x86 version.
build.bat 386
move gophernotes.exe %GOPATH%\bin
copy lib-386\libzmq.dll %GOPATH%\bin
```

Gophernotes Windows: Instalación en Jupyter

Finalmente, hay que mover los ficheros del kernel de Go a Jupyter para poder cargarlo desde el Notebook.

```
mkdir %APPDATA%\jupyter\kernels\gophernotes
xcopy %GOPATH%\src\github.com\gopherdata\gophernotes\kernel %APPDATA%\jupyter\kernels\gophernotes /s
```

```
{
  "argv": [
    "C:\\gopath\\bin\\gophernotes.exe",
    "{connection_file}"
  ],
  "display_name": "Go",
  "language": "go",
  "name": "go"
}
```

Figure: kernel.json

Gophernotes Linux: Instalación en Jupyter

En Linux sólo hay que ejecutar estos comandos.

```
$ go get -u github.com/gopherdata/gophernotes
$ mkdir -p ~/.local/share/jupyter/kernels/gophernotes
$ cp $GOPATH/src/github.com/gopherdata/gophernotes/kernel/* ~/.local/share/jupyter/kernels/gophernotes
```

The End