

Instalación y configuración de Miniconda

Dirigete a la página de descarga de miniconda y descarga el instalador de acuerdo a tu sistema operativo:

[Miniconda descarga](#)

Platform	Name	SHA256 hash
Windows	Miniconda3 Windows 64-bit	<code>b1ce11a339c8246010e898065f6fa6feb1940a55fed550b57a8039c</code>
macOS	Miniconda3 macOS Intel x86 64-bit bash	<code>b1c87c8334ea878d30a9976c1860b1004e6d55bdec5228089fec40be</code>
	Miniconda3 macOS Intel x86 64-bit pkg	<code>87152b1143b7d41c5553c1bb998957fa41895192c446755851e3844e</code>
	Miniconda3 macOS Apple M1 64-bit bash	<code>12e678b8156aea69a132568b6176a019c7a1ba753ddf5caedf086d3c</code>
Linux	Miniconda3 Linux 64-bit	<code>4b3b3b1b99215e85fd73fb2c2d7ebf318ac942a457072de62d885056</code>
	Miniconda3 Linux-aarch64 64-bit	<code>70afe954cc8ee91f605f9aa48985bfe01ecfc10751339e8245eac726</code>
	Miniconda3 Linux-s390x 64-bit	<code>bd2a0a8ea34c84c860868d5b8efde07afc51cdede76b64dd94e9c3fd</code>

Si no tienes interfaz gráfica, a continuación se muestra como descargar el instalador y ejecutarlo desde consola (Linux):

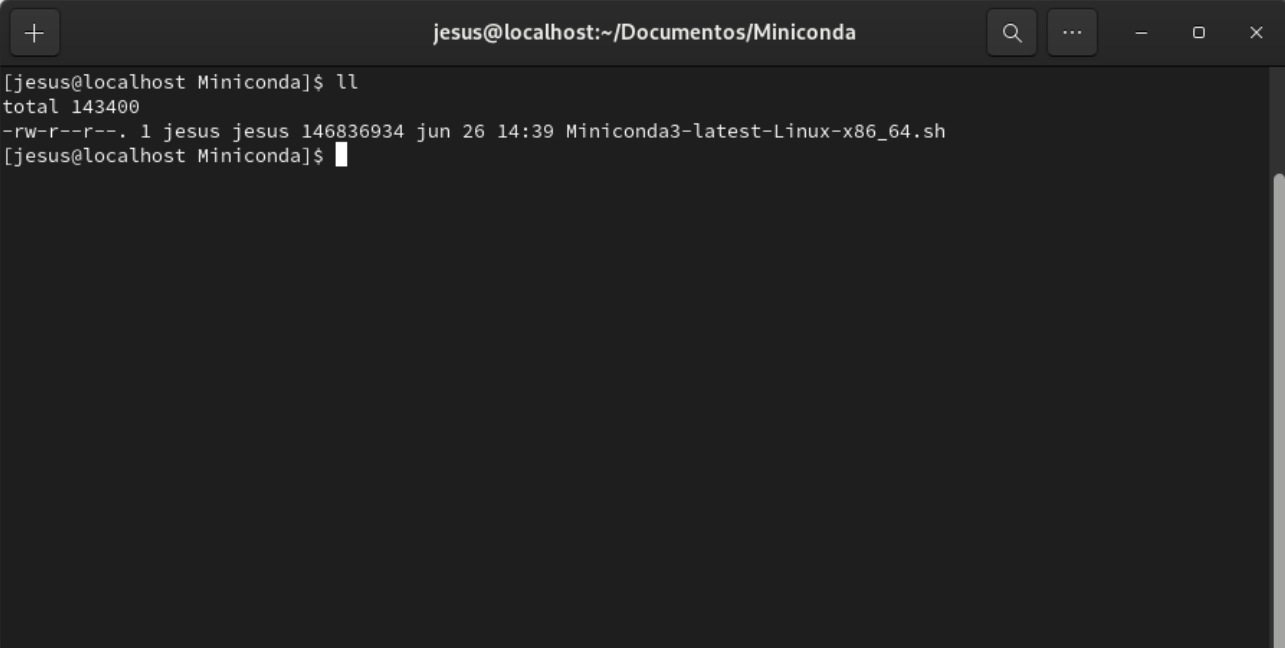
Paso 1: Obtener el instalador.

Copia y pega el siguiente comando:

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

Paso 2: Dar permisos de ejecución al script.

Si observas en consola el archivo que descargaste, podrás observar que en la parte izquierda, solo aparecen las letras `r` y `w` junto al nombre del archivo, esto significa que el instalador que descargaste, solo tiene permisos de lectura.



```
jesus@localhost:~/Documentos/Miniconda
[jesus@localhost Miniconda]$ ll
total 143400
-rw-r--r--. 1 jesus jesus 146836934 jun 26 14:39 Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$
```

Para darle permisos de ejecución al instalador se utiliza el siguiente comando:

```
chmod +x nombre_del_instalador
```

Vuelve a listar en consola para actualizar la vista y observa las diferencias; Ha aparecido la letra `x` (de execute) junto al archivo y ha cambiado de color.

```
jesus@localhost:~/Documentos/Miniconda
[jesus@localhost Miniconda]$ ll
total 143400
-rw-r--r--. 1 jesus jesus 146836934 jun 26 14:39 Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$ chmod +x Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$ ll
total 143400
-rwxr-xr-x. 1 jesus jesus 146836934 jun 26 14:39 Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$
```

Paso 3: Ejecutar el instalador.

Utiliza el siguiente comando:

```
./nombre_del_instalador
```

Aparece una pantalla preguntando si deseas continuar. Presiona enter.

```
jesus@localhost:~/Documentos/Miniconda — /bin/sh ./Miniconda3-latest-Linux-x86_6...
[jesus@localhost Miniconda]$ ll
total 143400
-rw-r--r--. 1 jesus jesus 146836934 jun 26 14:39 Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$ chmod +x Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$ ll
total 143400
-rwxr-xr-x. 1 jesus jesus 146836934 jun 26 14:39 Miniconda3-latest-Linux-x86_64.sh
[jesus@localhost Miniconda]$ ./Miniconda3-latest-Linux-x86_64.sh

Welcome to Miniconda3 py312_24.5.0-0

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

Hay que leer los terminos de licencia (si quieres) y desplazarse hacia abajo con las teclas de dirección hasta que te pregunte aceptar. Ingresa `yes`

```
jesus@localhost:~/Documentos/Miniconda — /bin/sh ./Miniconda3-latest-Linux-x86_6...
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Do you accept the license terms? [yes|no]
>>> 
```

Te preguntará la ruta de instalación. Cambiala si lo deseas y da `enter` para aceptar

```
jesus@localhost:~/Documentos/Miniconda — /bin/sh ./Miniconda3-latest-Linux-x86_6...
ensed to You as provided in this Agreement.
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ird-party products distributed with or through Miniconda(R), the applicable third-party licensors own all righ
t, title and interest, including all intellectual property rights, in and to such products.

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

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

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

[/home/jesus/miniconda3] >>> 
```

Te preguntará si quieres que conda se inicie por defecto, hay que darle `yes` y enter (NOTA: antes de dar enter apunta el comando que te indica la consola por si después deseas inhabilitar la inicialización automática de conda)

```
jesus@localhost:~/Documentos/Miniconda — /bin/sh ./Miniconda3-latest-Linux-x86_64...
[/home/jesus/miniconda3] >>>
PREFIX=/home/jesus/miniconda3
Unpacking payload ...

Installing base environment...

Downloading and Extracting Packages:

Downloading and Extracting Packages:

Preparing transaction: done
Executing transaction: done
installation finished.
Do you wish to update your shell profile to automatically initialize conda?
This will activate conda on startup and change the command prompt when activated.
If you'd prefer that conda's base environment not be activated on startup,
  run the following command when conda is activated:

conda config --set auto_activate_base false

You can undo this by running `conda init --reverse $SHELL`? [yes|no]
[no] >>> 
```

¡Listo! Ya tienes instalado Miniconda solo cierra y vuelve a abrir tu consola para que conda se activa. La próxima vez que abras tu consola aparecerá la palabra (base) en tu prompt.

Agregar los canales de **Bioconda**

Abre tu consola con conda activado y agrega los siguientes comandos:

```
conda config --add channels bioconda
conda config --add channels conda-forge
conda config --set channel_priority strict
```

Agregar y manejar ambientes (entornos)

Para listar los ambientes con los que cuentas usa el siguiente comando

```
conda env list
```

Para crear un ambiente usa cualquiera de los siguientes comandos:

```
conda create -n nombre_del_Entorno_nuevo
conda create --nombre_del_Entorno_nuevo
```

Para activar o desactivar ambientes usa los siguientes comandos

```
conda activate nombre_del_Entorno_a_activar  
conda deactivate nombre_del_Entorno_a_desactivar
```

Instalar paquetes

Colocate en el entorno donde deseas instalar el paquete

Instala el paquete con el siguiente comando

```
conda install nombre_del_programa_a_instalar
```

Puedes acelerar un poco la descarga si especificas el canal

```
conda install bioconda::nombre_del_programa_a_instalar
```

En cualquiera de los dos métodos anteriores puedes especificar la versión del programa que deseas instalar:

```
conda install nombre_del_programa_a_instalar=version
```

```
conda install bioconda::nombre_del_programa_a_instalar=version
```