

Como usar pythonanywhere.com

con git y python

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- 1 Se supone que la cuenta de usuario en `pythonanywhere.com` ya fue creada.
- 2 Una vez que nos hemos conectado (logueado) al sitio, debemos estar viendo una pantalla llamada dashboard.

Pantalla dashboard

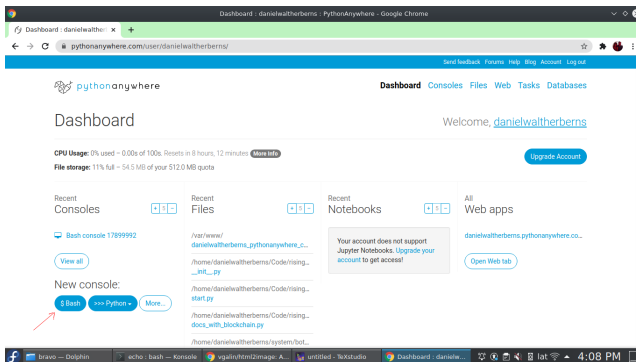
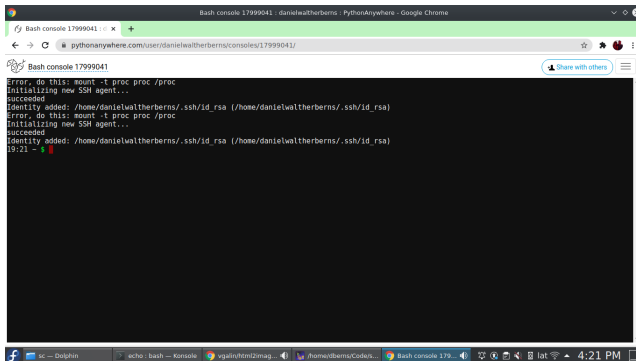


Figure: Dashboard: abajo a la izquierda aparece el botón para crear una consola con Bash.

Consola con bash



The screenshot shows a web browser window with the title "Bash console 17999041 : danielwaltherberns : PythonAnywhere - Google Chrome". The address bar shows the URL "pythonanywhere.com/user/danielwaltherberns/consols/17999041/". The main content area displays a terminal window titled "Bash console 17999041" with the following text:

```
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
19:21 ~ $
```

The terminal window is black with white text. The prompt is "~ \$". The browser window has a "Share with others" button in the top right corner. The bottom of the browser window shows a taskbar with icons for "sc - Dolphin", "echo : bash - Konsole", "vgain/ftm2imag...", and "fhome/dberns/Codes...", along with system icons and the time "4:21 PM".

Figure: Consola para enviar comandos a una máquina virtual con linux.

Comandos para trabajar en la consola

- ❶ `ls`
para ver los archivos en el directorio actual.
- ❷ `pwd`
para ver el path o camino del directorio actual.
- ❸ `mkdir xyz`
para crear un directorio de nombre xyz.
- ❹ `cd xyz`
para moverse al directorio de nombre xyz.

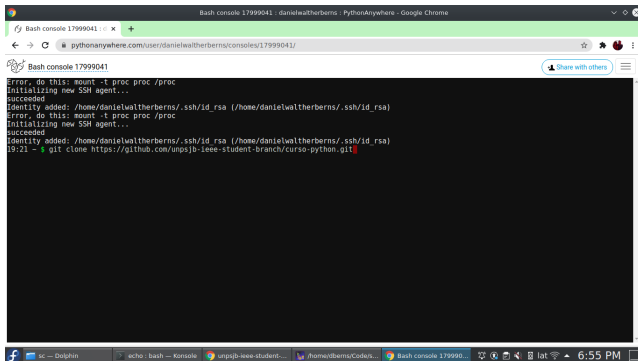
Como trabajar con git

- 1 Escribimos programas en nuestras computadoras, con un entorno de programación cómodo y amigable.
- 2 "Depositamos" los programas que escribimos en un repositorio en Github.
- 3 Empleamos los comandos en la consola

```
git clone https://github.com/usuario/repositorio.git  
y  
git pull
```

para transferir los programas a pythonanywhere.com.

Ejemplo git clone



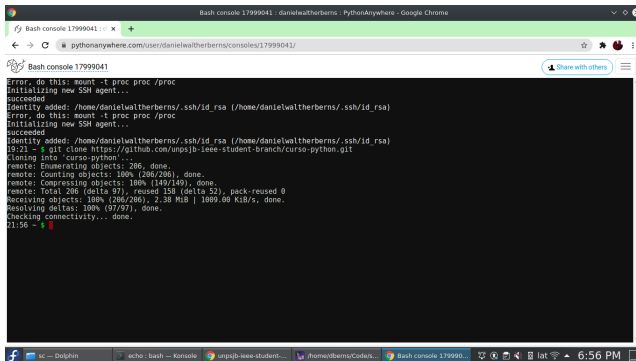
The screenshot shows a web browser window with a terminal interface. The terminal title is "Bash console 17999041". The address bar shows the URL "pythonanywhere.com/user/danielwaltherberns/containers/17999041/". The terminal output shows the following commands and their results:

```
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
19:21 ~ $ git clone https://github.com/unpsjb-ieee-student-branch/curso-python.git
```

The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and the system clock indicating 6:55 PM.

Figure: Antes de ejecutar git clone

Ejemplo git clone

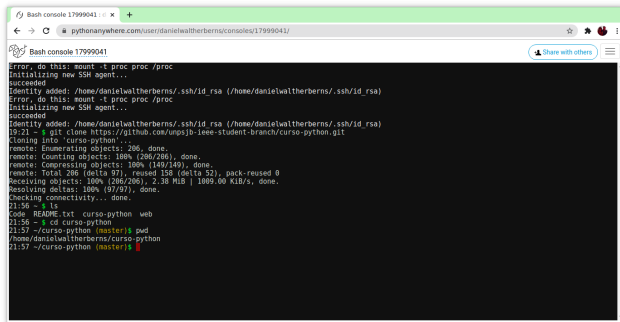


The screenshot shows a terminal window titled "Bash console 17999041 : danielwaltherberns : PythonAnywhere - Google Chrome". The terminal output shows the following commands and their results:

```
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
19:21 ~ $ git clone https://github.com/unpsjb-ieee-student-branch/curso-python.git
Cloning into 'curso-python'...
remote: Enumerating objects: 206, done.
remote: Counting objects: 100% (206/206), done.
remote: Compressing objects: 100% (149/149), done.
remote: Total 206 (delta 97), reused 158 (delta 52), pack-reused 0
Receiving objects: 100% (206/206), 2.38 MiB | 1089.00 KiB/s, done.
Resolving deltas: 100% (97/97), done.
Checking connectivity... done.
19:26 ~ $
```

Figure: Resultado de ejecutar git clone

Ejemplo cd y pwd

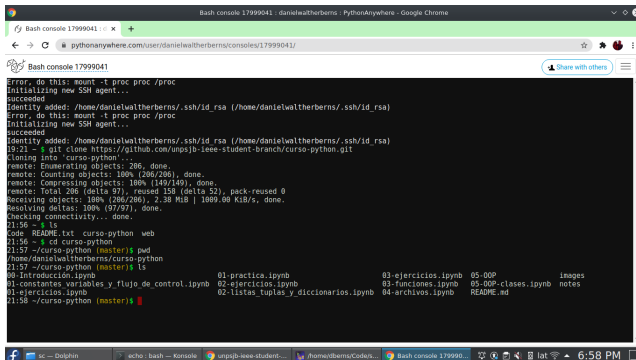


The screenshot shows a web browser window with a terminal interface. The address bar shows the URL `pythonanywhere.com/user/danielwaltherberns/consoles/17999041/`. The terminal title is "Bash console 17999041". The terminal output shows the following sequence of commands and results:

```
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
19:21 ~ $ git clone https://github.com/unpsjb-ieee-student-branch/curso-python.git
Cloning into 'curso-python'...
remote: Enumerating objects: 206, done.
remote: Counting objects: 100% (206/206), done.
remote: Compressing objects: 100% (149/149), done.
remote: Total 206 (delta 97), reused 158 (delta 52), pack-reused 0
Receiving objects: 100% (206/206), 2.38 MiB | 1809.00 KiB/s, done.
Resolving deltas: 100% (97/97), done.
Checking connectivity... done.
21:56 ~ $ ls
Code README.txt curso-python web
21:56 ~ $ cd curso-python
21:57 ~/curso-python (master)$ pwd
/home/danielwaltherberns/curso-python
21:57 ~/curso-python (master)$
```

Figure: Resultado de ejecutar cd y pwd

Ejemplo ls

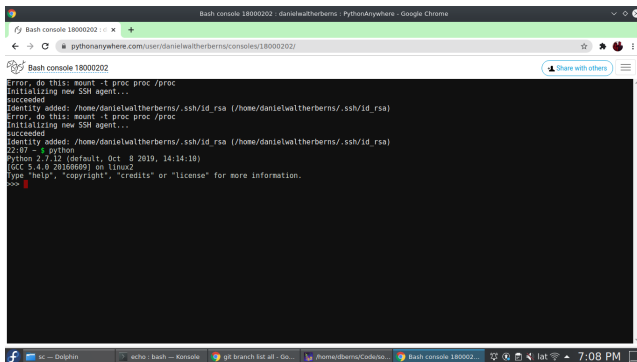


The screenshot shows a terminal window titled "Bash console 17999041 : danielwaltherberns : PythonAnywhere - Google Chrome". The terminal output is as follows:

```
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
19:21 ~$ git clone https://github.com/unpsjb-ieee-student-branch/curso-python.git
Cloning into 'curso-python'...
remote: Enumerating objects: 206, done.
remote: Counting objects: 100% (206/206), done.
remote: Compressing objects: 100% (149/149), done.
remote: Total 206 (delta 97), reused 158 (delta 52), pack-reused 0
Receiving objects: 100% (206/206), 2.38 MiB | 1099.00 KiB/s, done.
Resolving deltas: 100% (97/97), done.
Checking connectivity... done.
21:56 ~$ ls
Code README.txt curso-python web
21:56 ~$ cd curso-python
21:57 ~/curso-python (master)$ pwd
/home/danielwaltherberns/curso-python
21:57 ~/curso-python (master)$ ls
00-Introducción.ipynb          01-practica.ipynb          03-ejercicios.ipynb      05-00P          images
01-constantes variables y flujo de control.ipynb  02-ejercicios.ipynb        03-funciones.ipynb      05-00P-clases.ipynb  notes
01-ejercicios.ipynb           02-listas_tuplas_y_diccionarios.ipynb  04-archivos.ipynb      README.md
21:58 ~/curso-python (master)$
```

Figure: Resultado de ejecutar cd y pwd

Como ejecutar python en la consola de pythonanywhere

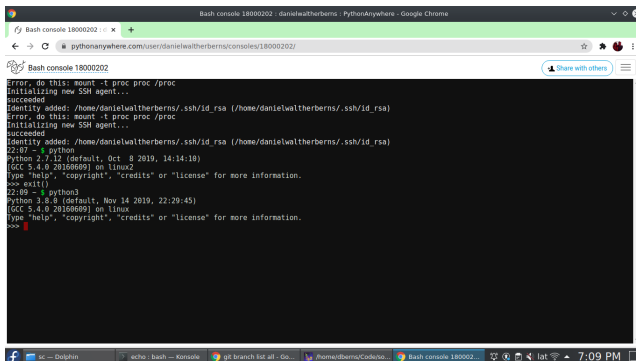


The screenshot shows a web browser window with the address bar displaying 'pythonanywhere.com/user/danielwaltherberns/consols/18000202/'. The main content area is a terminal window titled 'Bash console 18000202'. The terminal output shows the following sequence of events: an error about mounting /proc, successful SSH agent initialization, adding an SSH identity, another error about mounting /proc, and a successful second SSH agent initialization. The user then enters the command 'python', which results in the Python 2.7.12 shell prompt. The prompt shows the default settings, the date and time (Oct 8 2019, 14:14:10), the GCC version (GCC 5.4.0 20160609), and the operating system (Linux2). The prompt ends with 'Type "help", "copyright", "credits" or "license" for more information.' and a cursor on a new line.

```
Bash console 18000202
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
22:07 ~$ python
Python 2.7.12 (default, Oct 8 2019, 14:14:10)
[GCC 5.4.0 20160609] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Figure: Python 2: este NO!

Como ejecutar python en la consola de pythonanywhere



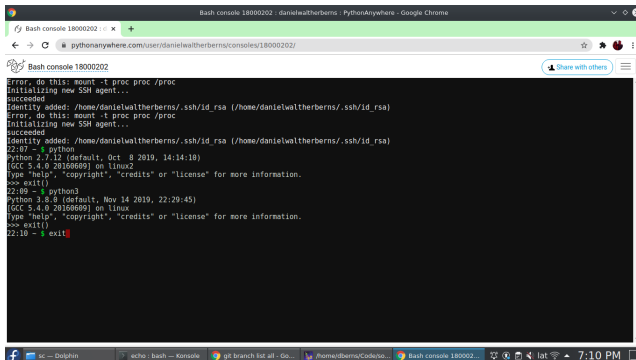
The screenshot shows a web browser window with the address bar displaying 'pythonanywhere.com/user/danielwaltherberns/consols/18000202/'. The main content area is a terminal window titled 'Bash console 18000202'. The terminal output shows the following sequence of commands and responses:

```
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
22:07 ~$ python
Python 2.7.12 (default, Oct 8 2019, 14:14:10)
(GCC 5.4.0 20160609) on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
22:09 ~$ python3
Python 3.8.0 (default, Nov 14 2019, 22:29:45)
(GCC 5.4.0 20160609) on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

The terminal window is part of a desktop environment with a taskbar at the bottom showing various icons and the system clock indicating 7:09 PM.

Figure: Python 3: este SI!

Como salir de la consola



```
Bash console 18000202 : danielwaltherberns : PythonAnywhere - Google Chrome
pythonanywhere.com/user/danielwaltherberns/consols/18000202/
Bash console 18000202
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
Error, do this: mount -t proc proc /proc
Initializing new SSH agent...
succeeded
Identity added: /home/danielwaltherberns/.ssh/id_rsa (/home/danielwaltherberns/.ssh/id_rsa)
22:07 ~ $ python
Python 2.7.12 (default, Oct 8 2019, 14:14:10)
(GCC 5.4.0 20160609) on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
22:09 ~ $ python3
Python 3.6.9 (default, Nov 14 2019, 22:29:45)
(GCC 5.4.0 20160609) on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
22:10 ~ $ exit
```

Figure: comando exit en la consola, para cerrarla.