

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

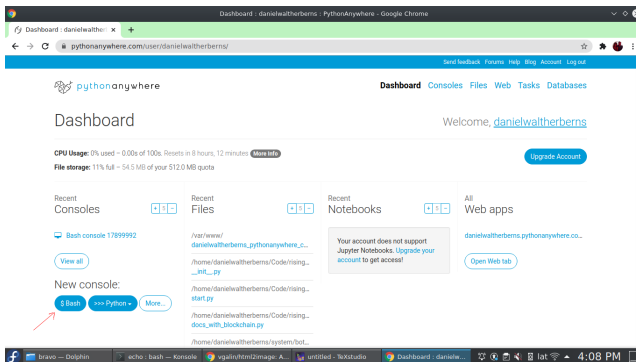
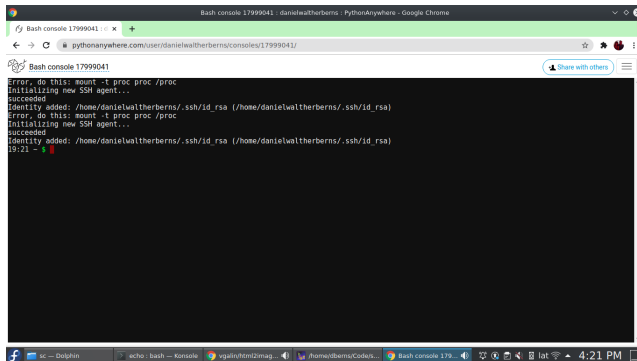


Figure: Dashboard: abajo a la izquierda aparece el botón para crear una consola con Bash.

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 part of a desktop environment shown in the browser. The taskbar at the bottom of the browser window includes icons for a file manager, terminal, image viewer, code editor, and the console itself. The system clock in the bottom right corner shows "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

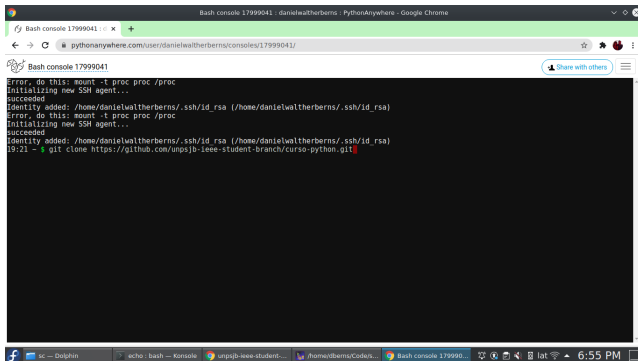
- 1 Escribimos programas en nuestras computadoras, con un entorno de programación cómodo y amigable.
- 2 "Depositamos" los programas que escribimos en un repositorio en Github.

- 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



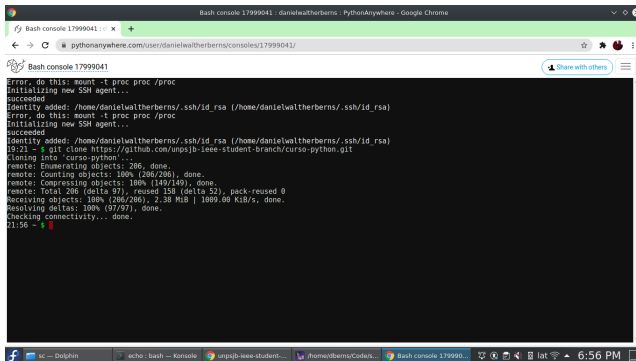
The screenshot shows a web browser window with a terminal interface. The terminal title is "Bash console 17999041". The address bar shows the URL "pythonanywhere.com/user/danielwaltherberns/consolas/17999041/". The terminal output shows the following commands and their results:

```
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 other open windows visible in the taskbar at the bottom, including "sc - Dolphin", "echo : bash - Konsole", "unpsjb-ieee-student...", and "fhome/dberns/Codas...". The system clock in the bottom right corner indicates the time is 6:55 PM.

Figure: Antes de ejecutar git clone

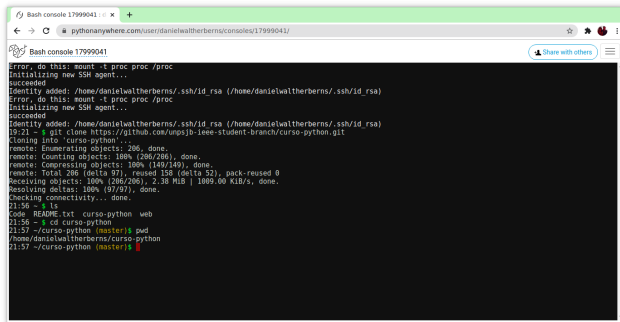
Ejemplo git clone



```
Bash console 17999041 : danielwaltherberns : PythonAnywhere - Google Chrome
pythonanywhere.com/user/danielwaltherberns/consoles/17999041/
Bash console 17999041
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.
17:56 ~ $
```

Figure: Resultado de ejecutar git clone

Ejemplo cd y pwd

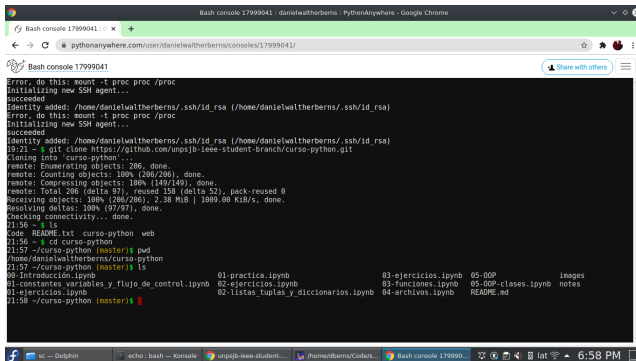


The screenshot shows a web browser window with a terminal interface. The browser's address bar shows the URL `pythonanywhere.com/user/danielwaltherberns/consoles/17999041/`. The terminal window has a title bar that says "Bash console 17999041". The terminal output shows the following sequence of commands 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

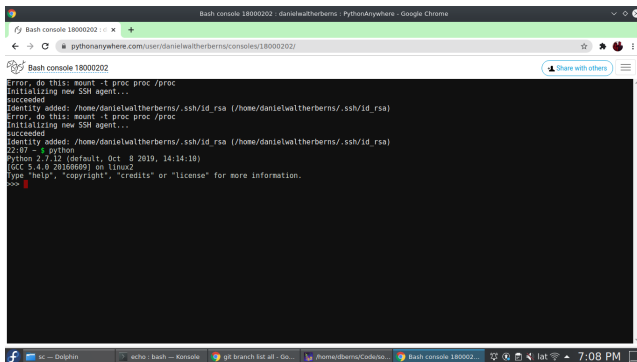


The screenshot shows a terminal window titled "Bash console 17999041 : danielwaltherberns : PythonAnywhere - Google Chrome". The terminal output shows the following commands and their results:

```
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 | 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
```

Figure: Resultado de ejecutar cd y pwd

Como ejecutar python en la consola de pythonanywhere

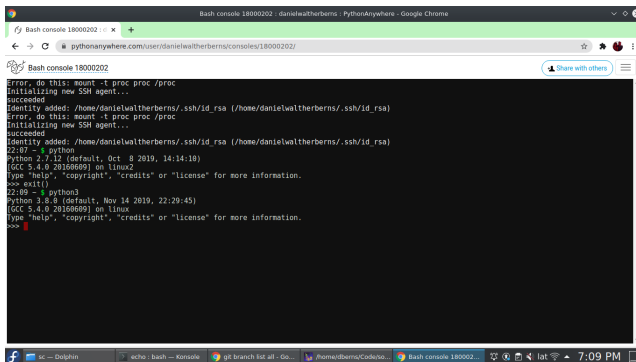


The screenshot shows a web browser window with the address bar displaying 'pythonanywhere.com/user/danielwaltherberns/consols/18000202/'. The main content area is a terminal window titled 'Bash console 18000202'. The terminal output shows the following sequence of events: an error about mounting /proc, successful SSH agent initialization, adding an SSH identity, another error about mounting /proc, and a successful second SSH agent initialization. Finally, the user runs 'python', which starts the Python 2.7.12 interpreter. The prompt changes from 'bash\$' to 'Python 2.7.12 (default, Oct 8 2019, 14:14:10) (GCC 5.4.0 20160609) on linux2'. The user then types 'type "help", "copyright", "credits" or "license" for more information.' and the prompt changes to '>>>'.

```
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



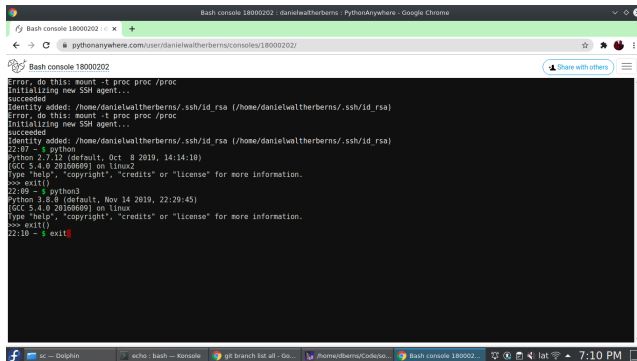
The screenshot shows a web browser window with the address bar displaying 'pythonanywhere.com/user/danielwaltherberns/consols/18000202/'. The main content area is a terminal window titled 'Bash console 18000202'. The terminal output shows the following sequence of commands and responses:

```
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 application icons and the system clock indicating 7:09 PM.

Figure: Python 3: este SI!

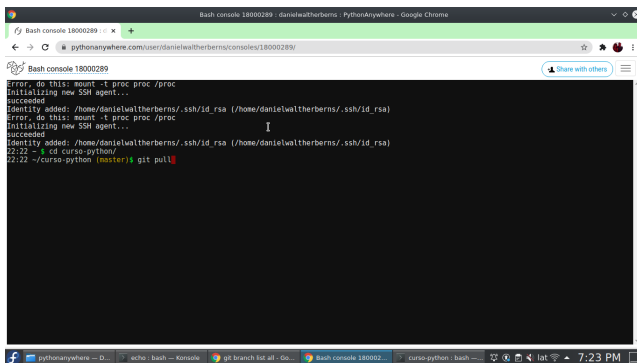
Como salir de la consola



```
Bash console 18000202 : danielwaltherberns : PythonAnywhere - Google Chrome
pythonanywhere.com/user/danielwaltherberns/consolas/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.

Como actualizar un repositorio en pythonanywhere



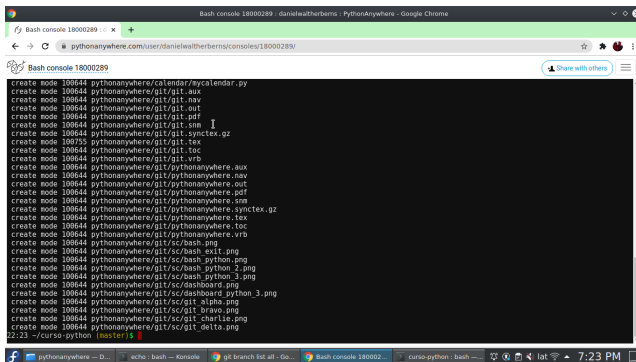
The screenshot shows a web browser window with the address bar displaying 'pythonanywhere.com/user/danielwaltherberns/consoles/18000289/'. The main content area is a terminal window titled 'Bash console 18000289'. The terminal output shows the following sequence of commands and responses:

```
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)
22:22 ~ $ cd curso-python/
22:22 ~/curso-python (master)$ git pull
```

The terminal window has a dark background and a light-colored text. The output is partially obscured by a large black rectangle. The browser's address bar and the terminal's title bar are visible at the top. The browser's status bar at the bottom shows the time as 7:23 PM.

Figure: git pull para actualizar repositorio en pythonanywhere con contenido nuevo que está en Github

Como actualizar un repositorio en pythonanywhere



The screenshot shows a web browser window with the address bar displaying 'pythonanywhere.com/user/danielwaltherberns/18000289/'. Below the browser window is a terminal window titled 'Bash console 18000289'. The terminal output shows a list of files created in a repository, including 'calendar/eycalendar.py', 'git/aux', 'git/nav', 'git/out', 'git/pdf', 'git/snm', 'git/syntax.gz', 'git/tex', 'git/toc', 'git/vrb', 'pythonanywhere/aux', 'pythonanywhere/nav', 'pythonanywhere/out', 'pythonanywhere/pdf', 'pythonanywhere/snm', 'pythonanywhere/syntax.gz', 'pythonanywhere/tex', 'pythonanywhere/toc', 'pythonanywhere/vrb', 'sc/bash.png', 'sc/bash_exit.png', 'sc/bash_python.png', 'sc/bash_python_2.png', 'sc/bash_python_3.png', 'sc/dashboard.png', 'sc/dashboard_python_3.png', 'sc/git_alpha.png', 'sc/git_bravo.png', 'sc/git_charlie.png', and 'sc/git_delta.png'. The terminal output ends with a prompt '22:23 ~curso-python [asterisk]\$'.

```
create node 100644 pythonanywhere/calendar/eycalendar.py
create node 100644 pythonanywhere/git/git_aux
create node 100644 pythonanywhere/git/git_nav
create node 100644 pythonanywhere/git/git_out
create node 100644 pythonanywhere/git/git_pdf
create node 100644 pythonanywhere/git/git_snm I
create node 100644 pythonanywhere/git/git_syntax.gz
create node 100755 pythonanywhere/git/git_tex
create node 100644 pythonanywhere/git/git_toc
create node 100644 pythonanywhere/git/git_vrb
create node 100644 pythonanywhere/git/pythonanywhere_aux
create node 100644 pythonanywhere/git/pythonanywhere_nav
create node 100644 pythonanywhere/git/pythonanywhere_out
create node 100644 pythonanywhere/git/pythonanywhere_pdf
create node 100644 pythonanywhere/git/pythonanywhere_snm
create node 100644 pythonanywhere/git/pythonanywhere_syntax.gz
create node 100644 pythonanywhere/git/pythonanywhere_tex
create node 100644 pythonanywhere/git/pythonanywhere_toc
create node 100644 pythonanywhere/git/pythonanywhere_vrb
create node 100644 pythonanywhere/git/sc/bash.png
create node 100644 pythonanywhere/git/sc/bash_exit.png
create node 100644 pythonanywhere/git/sc/bash_python.png
create node 100644 pythonanywhere/git/sc/bash_python_2.png
create node 100644 pythonanywhere/git/sc/bash_python_3.png
create node 100644 pythonanywhere/git/sc/dashboard.png
create node 100644 pythonanywhere/git/sc/dashboard_python_3.png
create node 100644 pythonanywhere/git/sc/git_alpha.png
create node 100644 pythonanywhere/git/sc/git_bravo.png
create node 100644 pythonanywhere/git/sc/git_charlie.png
create node 100644 pythonanywhere/git/sc/git_delta.png
22:23 ~curso-python [asterisk]$
```

Figure: Contenido actualizado con git pull