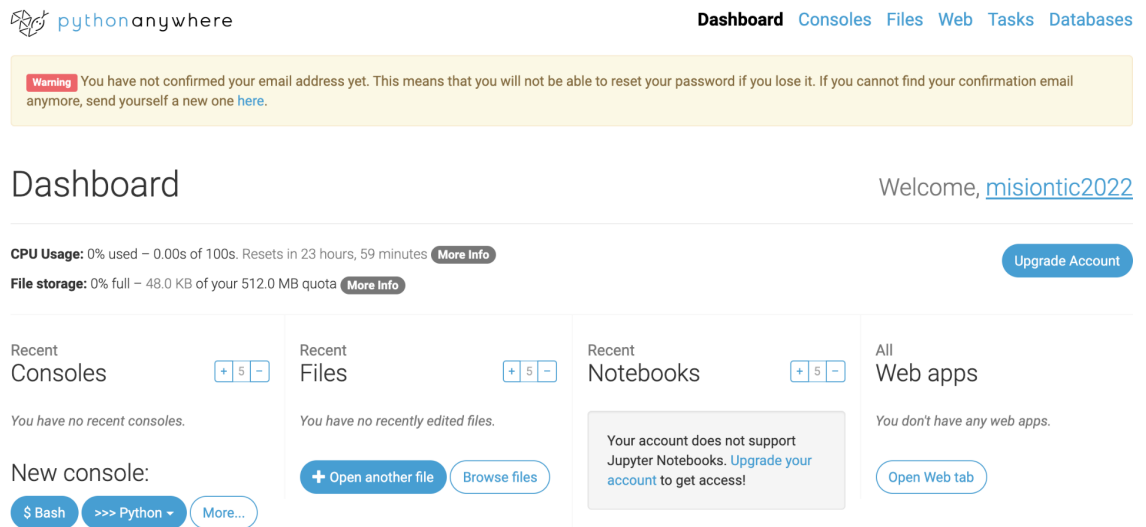


Sesión # 16 Componente Práctico

Servicio de Alojamiento de aplicaciones web en la nube

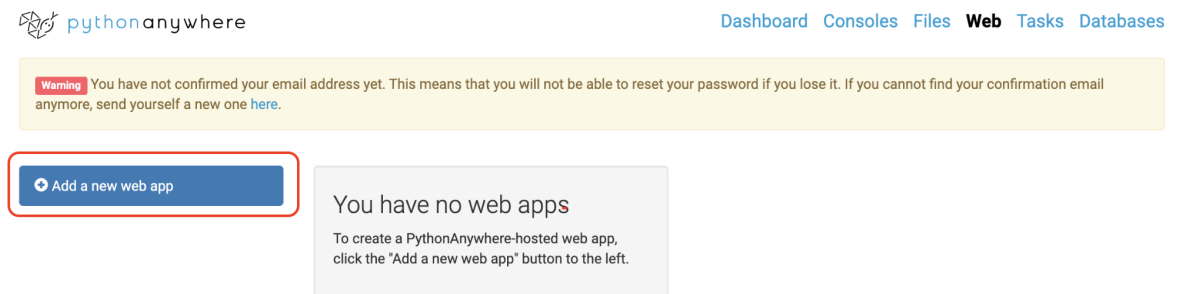
Vamos a realizar despliegue de nuestro proyecto práctico trabajado en el ciclo. Utiliza el proyecto desarrollado en la sesión 14.

1. Accede a <https://www.pythonanywhere.com/registration/register/beginner/> y crea una cuenta beginner.
2. Ve a Dashboard
3. Desde la vista dashboard de Python Anywhere accede a 'Open Web tab'




The screenshot shows the PythonAnywhere Dashboard. At the top, there's a navigation bar with links: Dashboard, Consoles, Files, Web, Tasks, Databases. A warning message states: "Warning You have not confirmed your email address yet. This means that you will not be able to reset your password if you lose it. If you cannot find your confirmation email anymore, send yourself a new one here." Below this, the dashboard title "Dashboard" is on the left and "Welcome, misiontic2022" is on the right. A status bar shows "CPU Usage: 0% used - 0.00s of 100s. Resets in 23 hours, 59 minutes" and "File storage: 0% full - 48.0 KB of your 512.0 MB quota", both with "More Info" links. An "Upgrade Account" button is on the right. The main content area is divided into four sections: "Recent Consoles" (empty, with a "New console:" section below it showing "\$ Bash", ">>> Python", and "More..."), "Recent Files" (empty, with "+ Open another file" and "Browse files" buttons), "Recent Notebooks" (empty, with a message: "Your account does not support Jupyter Notebooks. Upgrade your account to get access!"), and "All Web apps" (empty, with an "Open Web tab" button).

4. Click en 'Add a new web app' y presiona next



The screenshot shows the PythonAnywhere Web section. The navigation bar is the same as the previous screenshot, but the "Web" link is highlighted. The warning message is still present. Below it, there's a blue button with a plus icon and the text "Add a new web app", which is highlighted with a red rectangle. To the right of this button, a message says: "You have no web apps. To create a PythonAnywhere-hosted web app, click the 'Add a new web app' button to the left."

pythonanywhere

DashboardConsolesFiles**Web**Tasks

+

Add a new web app

Create new web app

Your web app's domain name

Your account doesn't support custom domain names, so your PythonAnywhere web app will live at `misiontic2022.pythonanywhere.com`.

Want to change that? [Upgrade now!](#)


Otherwise, just click "Next" to continue.

Cancel

« Back

Next »

5. Selecciona Flask como framework

pythonanywhere

Send feedbackForumsHelpBlogAccountLog out

DashboardConsolesFiles**Web**TasksDatabases

+

Add a new web app

Create new web app

Select a Python Web framework

...or select "Manual configuration" if you want detailed control.

- » Django
- » web2py
- » Flask
- » Bottle
- » Manual configuration (including virtualenvs)

What other frameworks should we have here? Send us some feedback using the link at the top of the page!

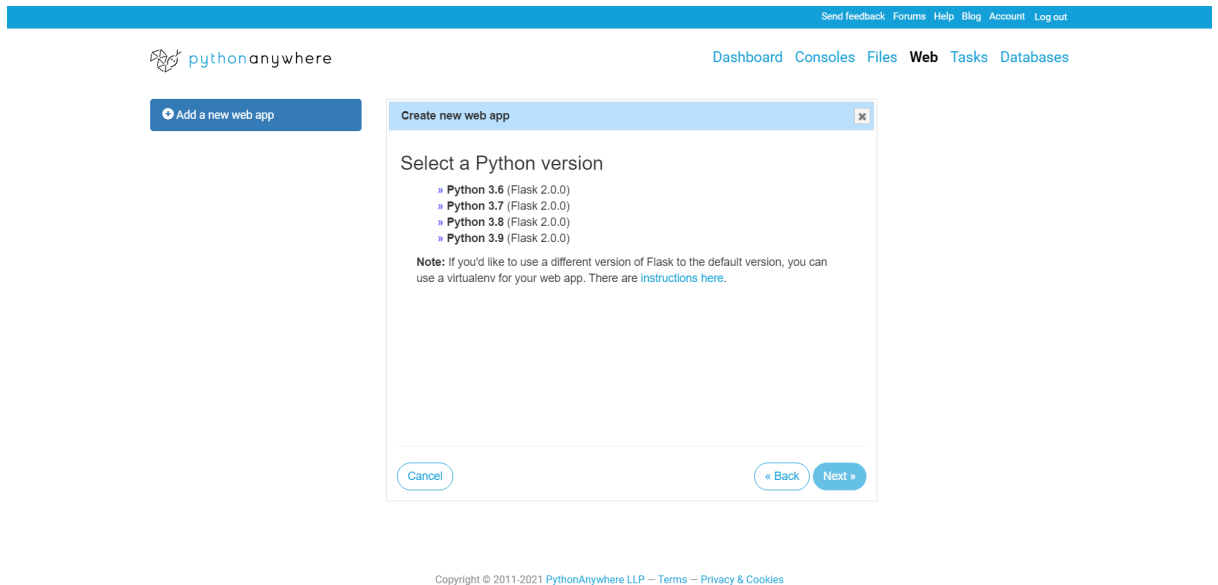
Cancel

« Back

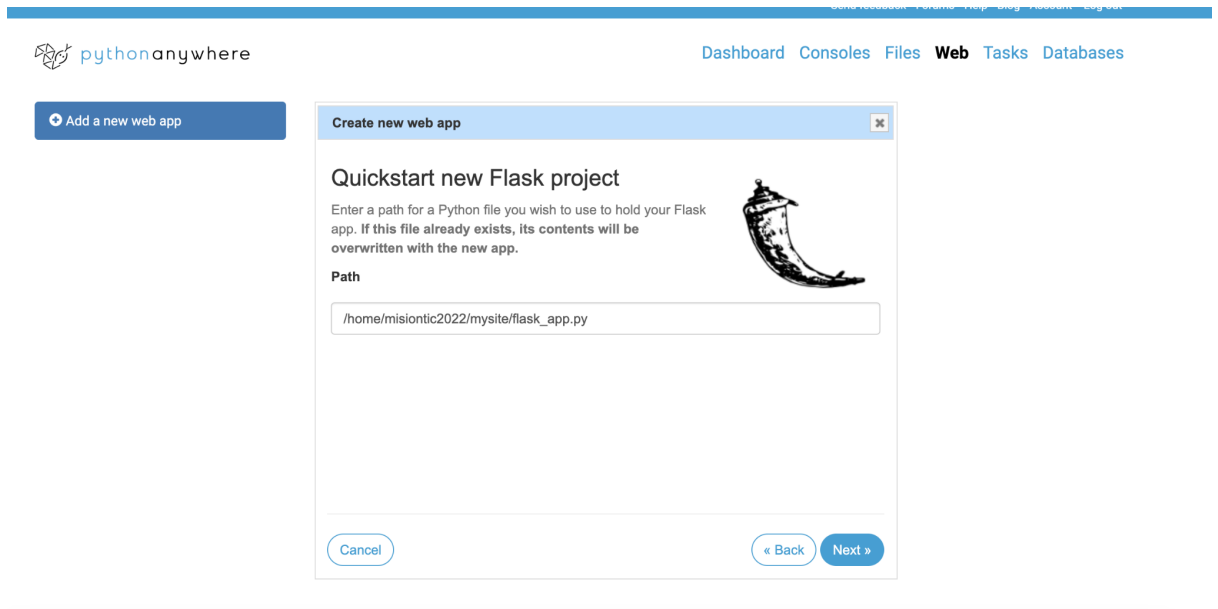
Next »

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6. Selecciona Python 3.9



7. Crea la ruta para tu app (si deseas, puedes modificar desde mysite en adelante)



- Una vez vamos a next, podremos acceder al enlace de nuestra app y visualizar la app por defecto brindada por pythonanywhere, aún no cuenta con la información de nuestro proyecto

pythonanywhere

Dashboard Consoles Files **Web** Tasks Databases

All done! Your web app is now set up. Details below.

misiontic2022.pythonanywhere.com

Add a new web app

Configuration for misiontic2022.pythonanywhere.com

Reload:

Reload misiontic2022.pythonanywhere.com

Best before date:

We're happy to host your free website – and keep it free – for as long as you want to keep it running, but you'll need to log in at least once every three months and click the "Run until 3 months from today" button below. We'll send you an email a week before the site is disabled so that you don't forget to do that. [See here for more details.](#)

This site will be disabled on **Saturday 15 January 2022**

Run until 3 months from today

Paying users' sites stay up forever without any need to log in to keep them running.

Traffic:

← → ↻ Not Secure | misiontic2022.pythonanywhere.com

Apps Maestria Innovacion Estarbien Ciclo 4b-movil Instances | EC2 M... 100K

Hello from Flask!

9. Una vez la aplicación está desplegada ir a la sección de Dashboard/Web source code

Code:

What your site is running.

Source code:	/home/misiontic2022/mysite	Go to directory
Working directory:	/home/misiontic2022/	Go to directory
WSGI configuration file:	/var/www/misiontic2022-pythonanywhere_com_wsgi.py	
Python version:	3.9	

10. Hacer click en Go directory y guardamos todos los archivos concernientes al proyecto

pythonanywhere

Dashboard Consoles **Files** Web Tasks Databases

/home/misiontic2022/ mysite

Open Bash console here 0% full – 88.0 KB of your 512.0 MB quota [More info](#)

Directories

Enter new directory name New directory

pycache

Files

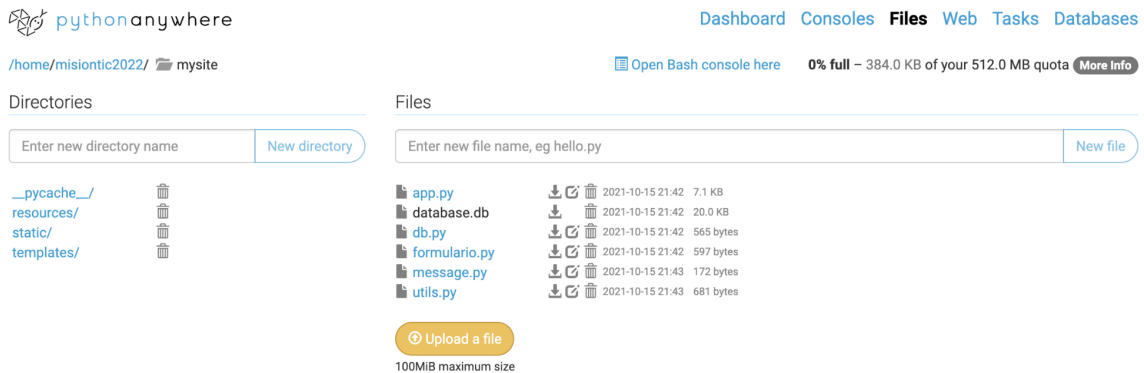
Enter new file name, eg hello.py New file

app.py 2021-10-15 21:37 186 bytes

Upload a file

100MiB maximum size

11. Crear todas las carpetas necesarias y subir archivos. Al final debemos obtener algo así:



The screenshot shows the PythonAnywhere dashboard for the user /home/misiontic2022/. The 'Files' tab is active, displaying a list of files and directories. The 'Directories' section on the left shows a tree structure with folders like __pycache__/, resources/, static/, and templates/. The 'Files' section on the right lists files: app.py (7.1 KB), database.db (20.0 KB), db.py (565 bytes), formulario.py (597 bytes), message.py (172 bytes), and utils.py (681 bytes). Each file has icons for download, upload, and delete. At the bottom, there is a button to 'Upload a file' with a note '100MiB maximum size'. The top navigation bar includes links for Dashboard, Consoles, Files, Web, Tasks, and Databases. A status bar at the top right indicates '0% full - 384.0 KB of your 512.0 MB quota' with a 'More Info' link.

12. Click en app.py y elimina las líneas

```
if __name__ == '__main__':  
    app.run()
```

13. Vuelve a tu carpeta mysite y haz click en el archivo db.py y modifica la ruta de la línea 9 por la ruta absoluta de tu proyecto:



The screenshot shows the PythonAnywhere file editor for the file /home/misiontic2022/mysite/db.py. The editor displays the following Python code:

```
1 import sqlite3  
2 from sqlite3 import Error  
3 from flask import current_app, g  
4  
5  
6 def get_db():  
7     try:  
8         if 'db' not in g:  
9             g.db = sqlite3.connect("/home/misiontic2022/mysite/database.db") #reemplaza la ruta por la de tu proyecto  
10            g.db.row_factory = sqlite3.Row  
11            return g.db  
12        except Error:  
13            print( Error )  
14  
15  
16 def close_db():  
17     db = g.pop( 'db', None )  
18  
19     if db is not None:  
20         db.close()  
21  
22 def query_db(query, args=(), one=False):  
23     cur = get_db().execute(query, args)  
24     rv = cur.fetchall()  
25     cur.close()  
26     return (rv[0] if rv else None) if one else rv
```

The code is displayed in a dark-themed editor with line numbers on the left. The top of the editor shows the file path and a status 'unsaved changes'. On the right side, there are buttons for 'Keyboard shortcuts', 'Share', 'Save', 'Save as...', and '>>> Run'.

14. Guardar, ve a consolas y selecciona Bash:

pythonanywhere

Dashboard Consoles Files Web Tasks Databases

Dashboard

Welcome, [misiontic2022](#)

CPU Usage: 0% used – 0.00s of 100s. Resets in 22 hours, 14 minutes [More Info](#)

File storage: 0% full – 384.0 KB of your 512.0 MB quota [More Info](#)

[Upgrade Account](#)

Recent Consoles

You have no recent consoles.

New console:

[\\$ Bash](#) [>>> Python](#) [More...](#)

Recent Files

/home/misiontic2022/mysite/db.py

/home/misiontic2022/mysite/app.py

[+ Open another file](#) [Browse files](#)

Recent Notebooks

Your account does not support Jupyter Notebooks. [Upgrade your account](#) to get access!

All Web apps

misiontic2022.pythonanywhere.com

[Open Web tab](#)

15. Desde la consola de bash instala las librerías necesarias:

```
pip install yagmail
pip install validate_email
pip install Flask-WTF
pip install werkzeug
```



16. Volver a Dashboard y presionar en reload app

pythonanywhere

Dashboard Consoles Files **Web** Tasks Databases

misiontic2022.pythonanywhere.com

[+ Add a new web app](#)

Configuration for misiontic2022.pythonanywhere.com

Reload:

[Reload misiontic2022.pythonanywhere.com](#)

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We're happy to host your free website – and keep it free – for as long as you want to keep it running, but you'll need to log in at least once every three months and click the "Run until 3 months from today" button below. We'll send you an email a week before the site is disabled so that you don't forget to do that. [See here for more details.](#)

This site will be disabled on **Saturday 15 January 2022**

[Run until 3 months from today](#)

[Paying users'](#) sites stay up forever without any need to log in to keep them running.

17. Acceder a la url del proyecto



Como puedes observar, hemos desplegado nuestro proyecto.

Nota:

En caso de que quieras ver los logs de la app, puedes ir a Dashboard/Web y bajar a la sección de logs.

Log files:

The first place to look if something goes wrong.

Access log: [misiontic2022.pythonanywhere.com.access.log](https://misiontic2022.pythonanywhere.com/access.log)
Error log: [misiontic2022.pythonanywhere.com.error.log](https://misiontic2022.pythonanywhere.com/error.log)
Server log: [misiontic2022.pythonanywhere.com.server.log](https://misiontic2022.pythonanywhere.com/server.log)

Log files are periodically rotated. You can find old logs here: [/var/log](#)

Static files: