interweb

Generated on 15/11/2026 00:12

KNOWLEDGE BASE · PUBLIC DOCUMENT

Running a Flask or FastAPI application

Python & Other Languages

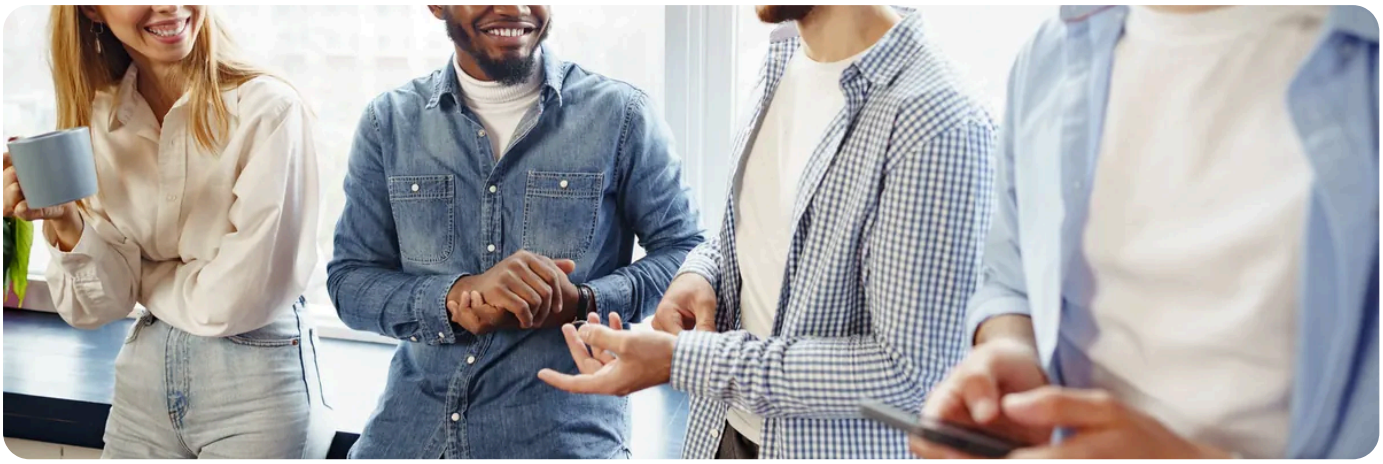
CODE	VERSION	COUNTRY · LANGUAGE
RLX-AO-KB-882	v2026.10.10	Angola · English

Interweb Angola
RLX Angola, Lda. · Group RLX Holdings
Tax ID (NIF) 500 260 5724 · Commercial registration no. 26464-25/250724

https://www.meu.interweb.ao/knowledgebase/882

Running a Flask or FastAPI application

Python & Other Languages Created on **October 10, 2026** 3 min read



Flask runs on shared hosting with no tricks: it speaks WSGI, and that is what the Passenger behind "Setup Python App" expects. **FastAPI** is different: it speaks ASGI, and Passenger does not speak that directly. You can make it work with an adapter, but you lose what makes it interesting (long connections, *websockets*). To make real use of it, the place is a **VPS**. This article shows both paths. Creating the application and the virtual environment is covered in **Python in cPanel: virtual environments and pip**.

Which one for where

	On shared hosting (cPanel)	On a VPS
Flask	Yes, through "Setup Python App" (WSGI).	Yes, with gunicorn behind a proxy.
FastAPI	Only with an ASGI-to-WSGI adapter. No *websockets* and no streamed responses.	Yes, with uvicorn behind a proxy: it is the intended design.
Always-on processes (queues, tasks)	No: the application only lives while there are requests.	Yes, with systemd, Docker or another manager.
Who installs and maintains	You, in your account.	You, on the unmanaged VPS.

Flask in cPanel

1. **Create the application** under "Setup Python App" with a 3.x version, the root and the address you want. Leave the startup file as `passenger_wsgi.py` and the entry point as `application`.

2. **Put your code in the application root.** For example, an `app.py` with `app = Flask(__name__)`.

3 **Connect Passenger to Flask:** in `passenger_wsgi.py` write just

```
from app import app as application
```

The name `application` is what Passenger looks for.

4 **Install the libraries** with a `requirements.txt` and "Run Pip Install", and **restart**.

5 **Open the address.** If it errors, the Passenger log (the *Passenger log file* field) says what failed.

FastAPI

In cPanel, with an adapter. Install `fastapi` and `a2wsgi` (an ASGI-to-WSGI adapter), and in `passenger_wsgi.py`:

```
from a2wsgi import ASGIMiddleware
from main import app

application = ASGIMiddleware(app)
```

It works for an API of simple requests and responses. Do not count on *websockets*.

On a VPS. Inside the project's virtual environment, install `fastapi` and `uvicorn` and start it:

```
uvicorn main:app --host 127.0.0.1 --port 8000
```

The `main:app` means "the file `main.py`, the variable `app`". Listening only on `127.0.0.1`, what shows it to the world is nginx with HTTPS: **nginx as a reverse proxy**. To keep it up after you close the session, use systemd or Docker. The same goes for Flask on a VPS, swapping uvicorn for `gunicorn -b 127.0.0.1:8000 app:app`.

Never leave debug mode on in production.
In Flask, `debug=True` (or `FLASK_DEBUG`) opens a console in the browser that lets anyone who reaches an error page run code on the server. And do not use the development server (`flask run`) or `uvicorn --reload` as your public server.

Test with a minimal route first:
One that returns "ok". If that answers, the problem is in the rest of the code or in the dependencies. Secrets and configuration go in variables, not in code: **environment variables and secrets**. When the error is an unexplained 5xx, see **error 503 and the 5xx family**.

NEED A HAND?

The application opens locally but not on the server? Tell us the domain and the last line of the Passenger log.

Open a support ticket →

SEE ALSO

- Python in cPanel: virtual environments and pip →
- Getting a Django application running →
- Nginx as a reverse proxy in front of a container →
- VPS servers →

interweb

Interweb Angola

RLX Angola, Lda. · Group RLX Holdings

TAX ID (NIF)	500 260 5724
COMMERCIAL REGISTRATION NO.	26464-25/250724
REGISTERED OFFICE	Rua Direita do Patriota, Bairro Dangereux Belas, Luanda, Angola
CONTACT	info@interweb.ao · +244 942 011 191 · www.interweb.ao
OPENING HOURS	Monday to Friday - 08 AM to 04 PM Saturday & Sunday - Closed

Online version of this document

RLX-AO-KB-882 · v2026.10.10 · Generated on 15/11/2026 00:12