

# Apache2 & wsgi

## Install

1. Installer les paquets:

```
apt update && apt dist-upgrade
apt install apache2 python3 python3-pip python3-venv
```

2. Créer l'environnement:

```
cd /opt && mkdir flask-app
cd flask-app
python3 -m venv flask-venv
source flask-venv/bin/activate
pip3 install flask
```

1. Créer un fichier app.py

```
nano app.py
```

Avec le contenu:

app.py

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def index():
    return 'Hello World'
```

1. Tester la base:

```
export FLASK_APP=app.py
flask run --host=0.0.0.0
```

2. Quitter l'environnement:

```
deactivate
```

1. Installer le module wsgi pour apache:

```
apt install libapache2-mod-wsgi-py3
```

2. Créer un fichier flask-app:

```
nano /opt/flask-app/flask-app.wsgi
```

Contenu:

[flask-app.wsgi](#)

```
import sys
sys.path.insert(0, '/opt/flask-app')

from app import app as application
```

1. Créer un fichier de configuration Python:

```
nano /etc/apache2/sites-available/flask.conf
```

Contenu:

[flask.conf](#)

```
<VirtualHost *:80>
ServerName yourdomain.com
DocumentRoot /opt/flask-app/

WSGIDaemonProcess app user=www-data group=www-data threads=5
python-home=/opt/flask-app/flask-venv
WSGIScriptAlias / /opt/flask-app/flask-app.wsgi

ErrorLog ${APACHE_LOG_DIR}/flask-error.log
CustomLog ${APACHE_LOG_DIR}/flask-access.log combined

<Directory /opt/flask-app>
WSGIProcessGroup app
WSGIApplicationGroup %{GLOBAL}
Order deny,allow
Require all granted
</Directory>
</VirtualHost>
```

2. Activer le nouveau virtualhost et désactiver celui par défaut:

```
a2dissite 000-default.conf
a2ensite flask.conf
```

## Sources

- [https://www.bogotobogo.com/python/Flask/Python\\_Flask\\_HelloWorld\\_App\\_with\\_Apache\\_WSGI\\_U](https://www.bogotobogo.com/python/Flask/Python_Flask_HelloWorld_App_with_Apache_WSGI_U)

[buntu14.php](#)

- <https://www.rosehosting.com/blog/how-to-install-flask-on-ubuntu-22-04-with-apache-and-wsgi/>

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Last update: **2023/04/01 08:53**

