

How To Setup uWSGI On Ubuntu 12.10

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uWSGI provides an implementation of the WSGI specification and is both a protocol and an application server. For more, please refer to the uWSGI docs [here](#). Although in this tutorial we will setup a standalone uWSGI server, it is generally kept behind nginx.

Prerequisites

```
ssh -p 25000 demo@12.34.56.789
```

Remember to replace '2500' with the number of port you used in the previous article. Replace 'demo' with your username and '12.34.56.789' with your IP.

The server needs to be equipped with Python; since you have installed Ubuntu 12.04, you might already have Python 2.7.3 installed.

Step 1: Install Pip and Python Essentials

We will download the Python development headers as we will be deploying a small application written in Python.

```
sudo apt-get install build-essential python-dev
sudo apt-get install python-pip
```

Step 2: Install dependent packages

Next, install the required packages.

```
sudo apt-get install libxml2-dev
sudo apt-get install libxslt1-dev
```

Step 3: Install Pip

We will install uwsgi from pip and not using aptitude, as Aptitude seems to install an older version of uwsgi.

```
sudo pip install uwsgi
```

Step 4: Create a small Application

We will create a small application and render a text. Create the following folder and then a python file inside it.

```
mkdir ~/projects
vim ~/projects/app.py
```

Copy the following contents in this file:

```
def application(env, start_response):
    start_response('200 OK', [('Content-Type', 'text/html')])
    return "Hello World"
```

Step 5: Launch the Application via uWSGI

Assuming that you have created a 'demo' user using 'adduser' as mentioned in the Pre-requisites sections, you can run the following to start serving the application at a port of your choice:

```
sudo uwsgi --http :port_num; --wsgi-file app.py --uid <username>
sudo uwsgi --http :9090 --wsgi-file app.py --uid demo
```

Step 6: Confirmation: Access the Application

You can confirm that uWSGI has been installed and running by directing your browser to your `http://<IP address:port>`:

```
ifconfig eth0 | grep inet | awk '{ print 2 }'
```

When you visit your `<IP address:port>` page in your browser, you will see the words:

```
"Hello World"
```

uWSGI installed and a sample application served by it.