# **Deployment on Flask**

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**Submitted to: Data Glacier** 

#### **Step 1: Install PIP on Windows**

a. download the get-pip.py file

curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py

```
П
Invite de commandes
dicrosoft Windows [version 10.0.19043.1348]
(c) Microsoft Corporation. Tous droits réservés.
::\Users\21694:python --version
ython 3.10.1
:\Users\21694>pip --version
'pip' n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.
:\Users\21694>pip --version
'pip' n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.
::\Users\21694;curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py
 % Total % Received % Xferd Average Speed Time Time
Dload Upload Total Spent
                                                                  Time Current
Left Speed
100 2108k 100 2108k 0 0 74460
                                          0 0:00:29 0:00:29 --:--:-
```

#### b. install PIP

python get-pip.py

```
C:\Users\21694>python get-pip.py

Collecting pip

Downloading pip-21.3.1-py3-none-any.whl (1.7 MB)

Downloading setuptools

Downloading setuptools-59.7.0-py3-none-any.whl (952 kB)

Downloading setuptools-59.7.0-py3-none-any.whl (952 kB)

Downloading wheel

Downloading wheel

Downloading wheel-0.37.0-py2.py3-none-any.whl (35 kB)

Installing collected packages: wheel, setuptools, pip

Successfully installed pip-21.3.1 setuptools-59.7.0 wheel-0.37.0

C:\Users\21694>
```

c. You can view the contents of your current directory

dir

```
| Windows | Commended | Commen
```

#### d. Verify installation

pip help

```
Invite de commandes
                                                                                                                                                                       C:\Users\21694>pip help
Usage:
  pip <command> [options]
                                             Install packages.
                                            Download packages.
Uninstall packages.
  download
  uninstall
                                            Output installed packages in requirements format.
List installed packages.
Show information about installed packages.
Verify installed packages have compatible dependencies.
Manage local and global configuration.
  freeze
  list
  show
  check
  config
                                            Search PyPI for packages.
Inspect and manage pip's wheel cache.
Inspect information available from package indexes.
  search
  cache
  index
                                            Build wheels from your requirements.
  wheel
                                            Compute hashes of package archives.
  hash
  completion
                                            A helper command used for command completion.
                                            Show information useful for debugging.
Show help for commands.
  debug
 eneral Options:
  -h, --help
--debug
                                            Show help.
                                            Let unhandled exceptions propagate outside the main subroutine, instead of logging them
                                            Run pip in an isolated mode, ignoring environment variables and user configuration. Give more output. Option is additive, and can be used up to 3 times.
   --isolated
```

## **Step 2: Install Virtual Environment**

py -2 -m pip install virtualenv

#### **Step 3 : Create an environment**

- a. Make a separate directory for your project:
- b. Move into the directory:
- c. Create an environment
- d. List the folder structure using the **dir** command:

```
C:\Users\21694\Flask_deployment_project\mkdir test

C:\Users\21694\Flask_deployment_project\cd test

C:\Users\21694\Flask_deployment_project\test\py -3 -m venv vtest

C:\Users\21694\Flask_deployment_project\test dir *test*

Le volume dans le lecteur C s'appelle Windows

Le numéro de série du volume est 0667-C20A

Répertoire de C:\Users\21694\Flask_deployment_project\test

19/12/2021 02:16 PM <DIR> vtest
    0 fichier(s) 0 octets
    1 Rép(s) 108 736 233 472 octets libres
```

#### **Step 4 : Activate the environment**

```
Sélection Invite de commandes
 ::\Users\21694\Flask_deployment_project\test<mark>></mark>vtest\Scripts\activate
(vtest) C:\Users\21694\Flask_deployment_project\test>pip install Flask
 Collecting Flask

Downloading Flask-2.0.2-py3-none-any.whl (95 kB)
                                                95 kB 28 kB/s
  Downloading Jinja2-3.0.3-py3-none-any.whl (133 kB)
                                               133 kB 55 kB/s
  Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
 Collecting Werkzeug>=2.0
  Downloading Werkzeug-2.0.2-py3-none-any.whl (288 kB)
 Collecting click>=7.1.2
  Downloading click-8.0.3-py3-none-any.whl (97 kB)
Collecting colorama
Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
Collecting MarkupSafe>=2.0
Downloading MarkupSafe-2.0.1-cp310-cp310-win_amd64.whl (15 kB)
Installing collected packages: MarkupSafe, colorama, Werkzeug, Jinja2, itsdangerous, click, Flask
Successfully installed Flask-2.0.2 Jinja2-3.0.3 MarkupSafe-2.0.1 Werkzeug-2.0.2 click-8.0.3 colorama-0.4.4 itsdangerous
```

#### Step 5: Install flask

```
Sélection Invite de commandes
                                                                                                                                                        \Box
(vtest) C:\Users\21694\Flask_deployment_project\test>pip install Flask
Collecting Flask
  Downloading Flask-2.0.2-py3-none-any.whl (95 kB)
Collecting Jinja2>=3.0

Downloading Jinja2-3.0.3-py3-none-any.whl (133 kB)

| 133 kB 55 kB/s
 Collecting itsdangerous>=2.0
 Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
Collecting Werkzeug>=2.0

Downloading Werkzeug-2.0.2-py3-none-any.whl (288 kB)
Collecting click>=7.1.2

Downloading click-8.0.3-py3-none-any.whl (97 kB)

| 97 kB 145 kB/s
 collecting colorama
Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
 ollecting MarkupSafe>=2.0
Downloading MarkupSafe-2.0.1-cp310-cp310-win_amd64.whl (15 kB)
Installing collected packages: MarkupSafe, colorama, Werkzeug, Jinja2, itsdangerous, click, Flask
Successfully installed Flask-2.0.2 Jinja2-3.0.3 MarkupSafe-2.0.1 Werkzeug-2.0.2 click-8.0.3 colorama-0.4.4 itsdangerous
                                                                                                                                                               ×
                                                                                                                                                        П
 Invite de commandes
Werkzeug 2.0.2
(vtest) C:\Users\21694\Flask_deployment_project\test>_
```

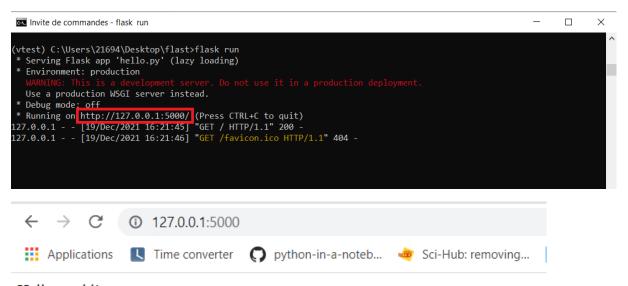
# **Step 6: Flask application example**

```
from flask import Flask
app = Flask(__name__)
@app.route('/')
def hello_world():
    return 'Hello world!'
```

## **Step 7 : Set FLASK\_APP environment variable**

Error: Could not locate a Flask application. You did not provide the "FLASK\_APP" environment variable, and a "wsgi.py" r "app.py" module was not found in the current directory.

## Step 8: Run the flask application



Hello world!