

How to setup Flask environment on windows and deploy to IIS

1. Install required python version.
2. Setup environment variable path to
Ex: variable name = PYTHON_HOME
variable value = C:\Anaconda\envs\python35;C:\Anaconda\envs\python35\Scripts
3. To create individual and independent virtual environment need to install virtualenv by running command "pip install virtualenv". To manage all individual environment running command "pip install virtualenvwrapper-win"
4. To create a virtual environment go to required directory and run command as administrator "python -m virtualenv myenv" and to active this run command ".\myenv\Scripts\activate"
5. pip install flask
6. Create a python file app.py and add code file below

```
from flask import Flask
```

```
app = Flask(__name__)
```

```
@app.route('/')
```

```
def hello():
```

```
    return 'Hello from FastCGI via IIS!'
```

```
if __name__ == '__main__':
```

```
    app.run()
```

7. Install wfastcgi by running pip install wfastcgi from the command line.
And copy the wfastcgi.py file from \myenv\Lib\site-packages\wfastcgi folder to the root of your application.
8. Now open the command line as admin and go to the root of your application and Run following command one by one.
icaccls . /grant "NT AUTHORITY\IUSR:(OI)(CI)(RX)"

icacds . /grant "Builtin\IIS_IUSRS:(OI)(CI)(RX)"

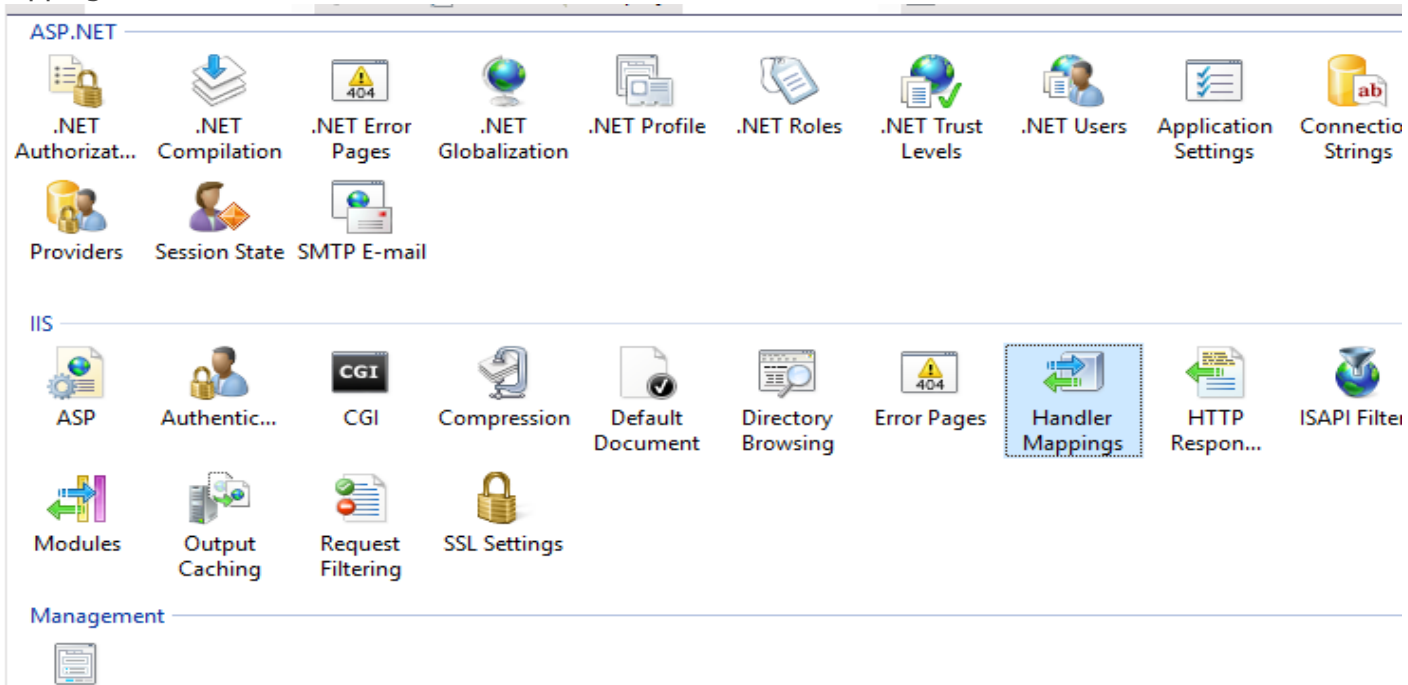
9. Now open IIS and create a new website with the root at your application like this

The 'Add Website' dialog box is shown with the following settings:

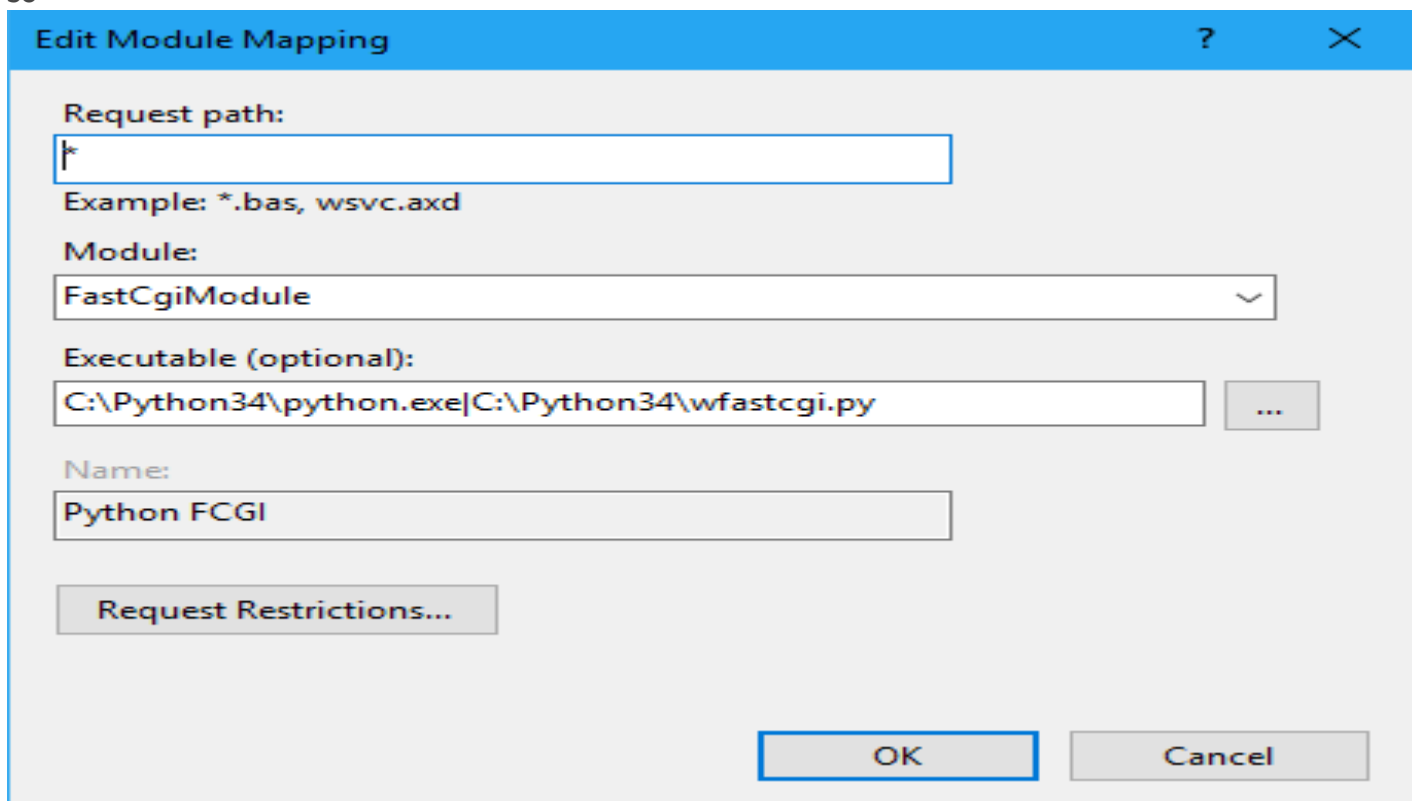
- Site name:** myapp
- Application pool:** myapp
- Content Directory:**
 - Physical path:** C:\myapp\app
 - Pass-through authentication:** (unchecked)
- Binding:**
 - Type:** http
 - IP address:** All Unassigned
 - Port:** 80
 - Host name:** (empty)
- Start Website immediately:** (checked)

Buttons: OK, Cancel

10. Now click on the name of your website in IIS on the left and click on Handle Mapping as show below



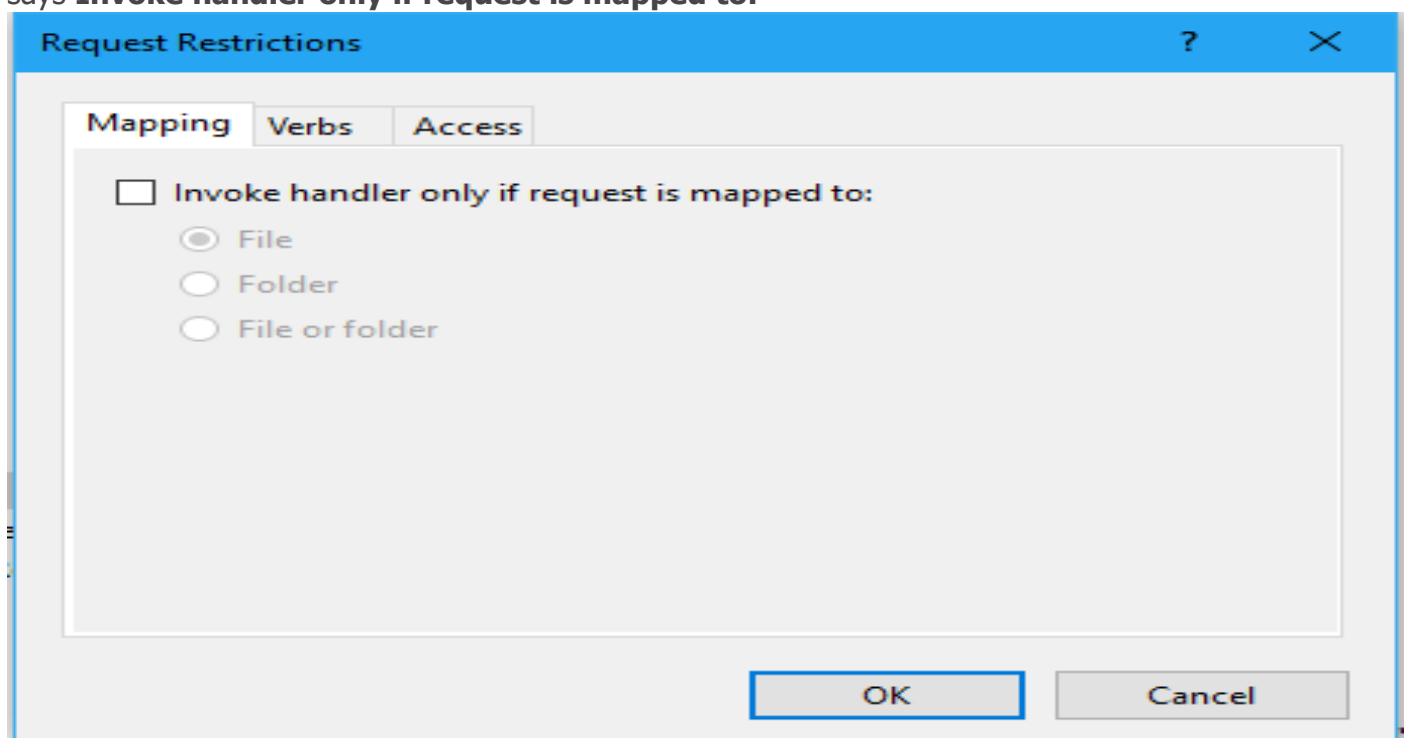
11. Click on Add Module Mapping on the right and complete the fields on the forms like



The 'Edit Module Mapping' dialog box is shown with the following fields and options:

- Request path:** A text box containing an asterisk (*). Below it, an example is provided: "Example: *.bas, wsvc.axd".
- Module:** A dropdown menu with "FastCgiModule" selected.
- Executable (optional):** A text box containing "C:\Python34\python.exe|C:\Python34\wfastcgi.py" and a browse button (...).
- Name:** A text box containing "Python FCGI".
- Request Restrictions...** button.
- OK** and **Cancel** buttons at the bottom right.

Before you click on OK, click on Request Restrictions and uncheck the box that says **Invoke handler only if request is mapped to:**

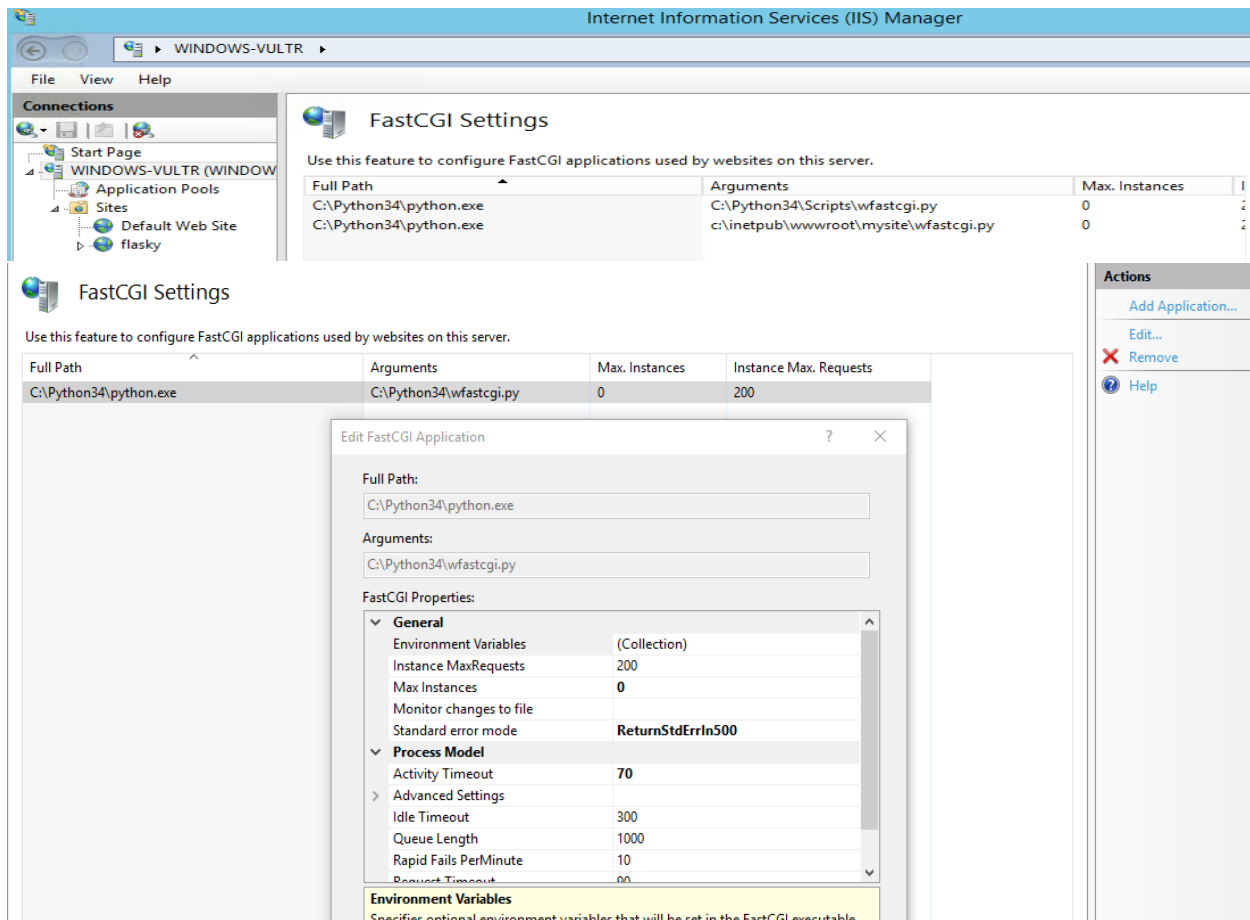


The 'Request Restrictions' dialog box is shown with the 'Mapping' tab selected. It contains the following options:

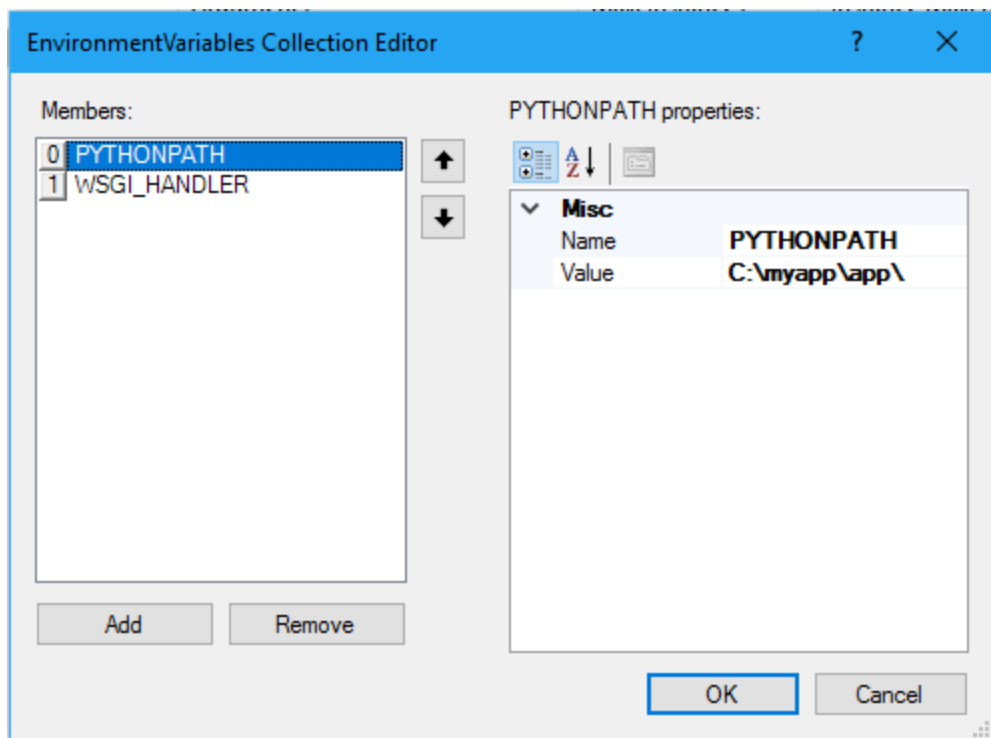
- Mapping** (selected tab), **Verbs**, and **Access** tabs.
- ☐ **Invoke handler only if request is mapped to:**
 - ☒ File
 - ☐ Folder
 - ☐ File or folder
- OK** and **Cancel** buttons at the bottom right.

Click on OK and OK again to save the changes

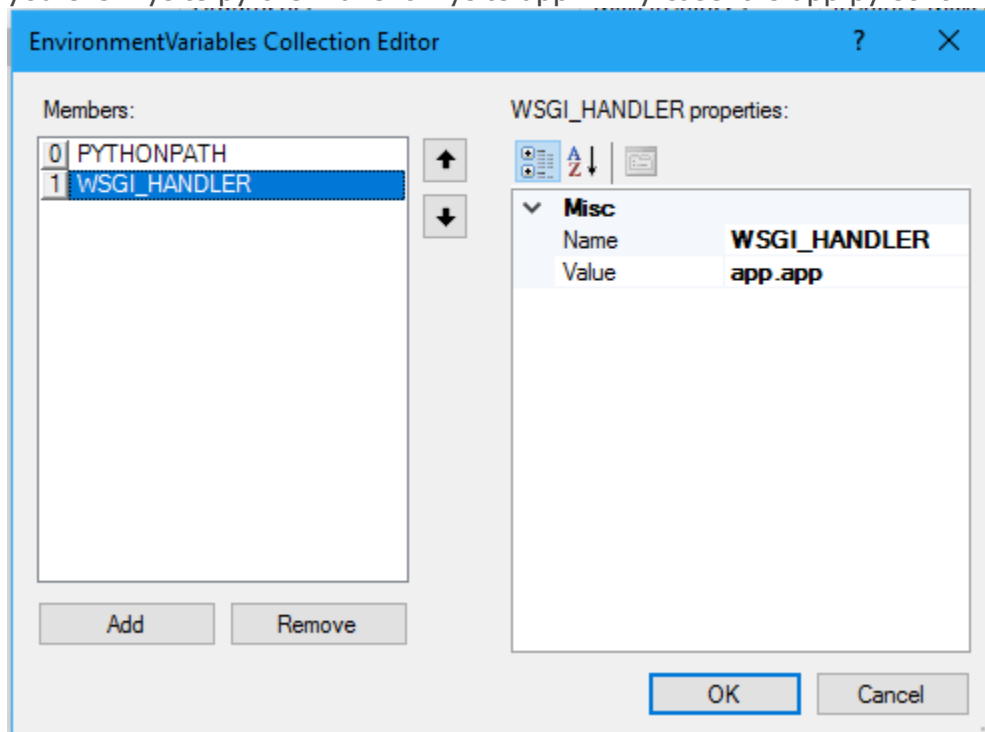
12 Now click on the server name on the left and Go to the root server settings and click "FastCGI Settings":



12. . Set the PYTHONPATH like the image below where by the Value is the path to your application in my case it is C:\myapp\app



13. Set the WSGI_HANDLER which in this case is the name of your application file. If yours is mysite.py then make it mysite.app in my case it is app.py so it will be app.app



Now go to your browser and type in <http://localhost> and you will see