Documentation of Running a Django Application on Windows server 2012 with IIS

source:(<http://blog.mattwoodward.com/2016/07/running-django-application-on-windows.html>)

Step 1(Installing Python Environment):

1. Download Anaconda from <https://repo.continuum.io/archive/Anaconda3-4.2.0-Windows-x86_64.exe>
2. Install Anaconda for python. Open cmd and write ‘python’.

If everything's fine, then python console would open in the console(cmd).

Step 2(Installing Handler):

1. Include wfastcgi python package.It provides a file that serves as the entry point of the IIS handler for WSGI applications in Python. Run in the cmd:

pip install wfastcgi

Step 3(Installing IIS):

1. Open the Control Panel
2. In the search box in the top right, type "windows features" (without the quotes)
3. In the search results under "Programs and Features" click "Turn Windows features on or off." This launches the Add Roles and Features Wizard.
4. Active everything (:P)
5. To verify that it installed correctly, Open a web browser on the server
6. Enter http://localhost in the address bar and press Enter. You should see the default IIS page.

Step 4(Configure FastCGI in IIS):

1. Click in the windows button and type IIS Manager. Then click and open IIS Manager
2. Click on the name of the server in the list on the left.
3. Double-click the "FastCGI Settings" icon
4. Under "Actions" on the right-hand side click "Add application"
5. In the Add FastCGI Application dialog, in the "Full Path" box, type the path to the Python executable for the application's virtual environment:

C:\{Path to Anaconda}\python.exe

Example: C:\Anaconda3\python.exe

1. In the Arguments input box, type the path to the wfastcgi.py file in the application's virtual environment:

C:\{Path-to-Anaconda}\Lib\site-packages\wfastcgi.py

1. With the Add FastCGI Application dialog box still open, under the "General" section, click on the "Environment Variables" line, then click the gray "..." button that appears next to (Collection) on the right-hand side of the line. This opens the EnvironmentVariables Collection Editor dialog.
2. In the EnvironmentVariables Collection Editor dialog, click "Add"
3. In the "Name properties" section on the right, click the input box to the right of "Name," remove the "Name" text that is already in the input box, and enter DJANGO\_SETTINGS\_MODULE (note that this MUST be entered in ALL CAPS)
4. Click the input box to the right of "Value" and enter {Project-Name}.settings

Example: foo.settings

1. Click "Add" again and enter the following:

Name: PYTHONPATH

Value: C:\{Path to Anaconda}\python.exe

1. Click "Add" again and enter the following:

Name: WSGI\_HANDLER

Value: django.core.wsgi.get\_wsgi\_application()

1. Click "OK" to close the EnviromentVariables Collection Editor
2. Click "OK" to close the Add FastCGI Application dialog.

Step 5(Create and Configure a New IIS Web Site):

1. On the left-hand side under Connections, expand the tree under the server name by clicking on the arrow to the left of the server name
2. Right-click on the Sites folder and click "Add Website ..."
3. For the site name enter foo
4. For the physical path, type the following:
5. C:\{Path-to-Project}
6. For the purposes of this example configuration, change the Port to 81, since the Default site is running on port 80. For a real-world application you'll likely want to use name-based virtual hosting by adding bindings and run the site on port 80.
7. You may leave the "Host name" blank.
8. Click "OK"

Step 6(Configure FastCGI handler mapping):

1. In IIS Manager, expand the Sites folder on the left-hand side and click on the foo site
2. On the right, double-click "Handler Mappings"
3. On the right, under "Actions," click "Add Module Mapping"
4. In the "Request path" box enter an asterisk: \*
5. Click the arrow on the right-hand side of the "Module" box and select "FastCgi Module"
   1. NOTE: Make sure to select **FastCgi Module**, *NOT* CgiModule
6. In the "Executable" box, enter the following:
7. C:\{Path-to-anaconda}\python.exe|C:\{Path-to-anaconda}\Lib\site-packages\wfastcgi.py
   1. Note that the character after python.exe is a pipe (|), which is entered by pressing Shift-\ on your keyboard
8. In the "Name" box, enter Django Handler (you can call this whatever you want; it's merely a friendly name for the module mapping)
9. Click the "Request Restrictions" button and uncheck the "Invoke handler only if request is mapped to:" checkbox
10. Click "OK" to close the Request Restrictions dialog
11. Click "OK" to close the Add Module Mapping dialog
12. When prompted "Do you want to create a FastCGI application for this executable?" click "Yes"

Now,

1. Open a browser on the server
2. Browse to <http://localhost:81>
3. You should see your web application running

Step 7(Configure Django and IIS to Serve Static Files):

1. Right-click your web site and click "Add Virtual Directory"
2. In the Add Virtual Directory dialog, enter the following values:

Alias: static

Physical path: C:\{Projects-Static-file-location}\static

3.Click "OK." You'll see the static virtual directory appear under the web