

You wil learn

Install Flask Python on
Windows Server and use ssl
on it

Auther : ASH

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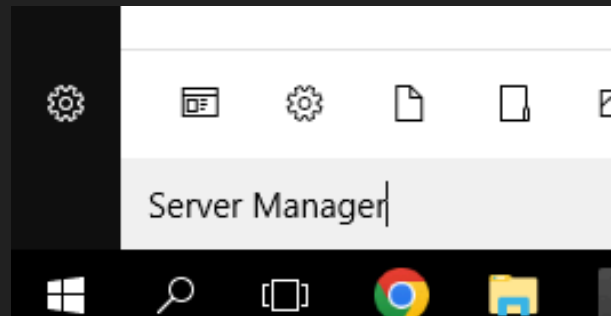
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•Install ISS with reqs•

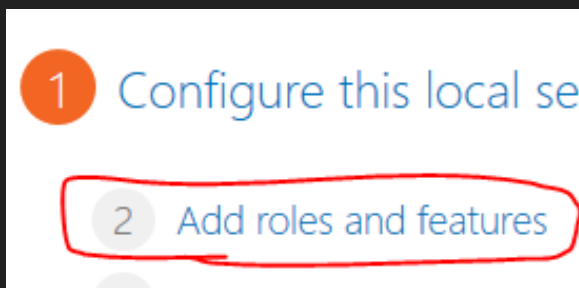
1-Click Search Input on bottom left



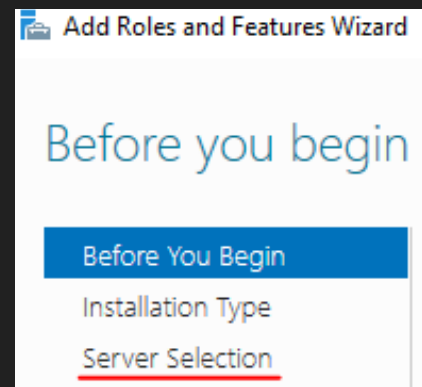
2-Search for "Server Manager" and click it



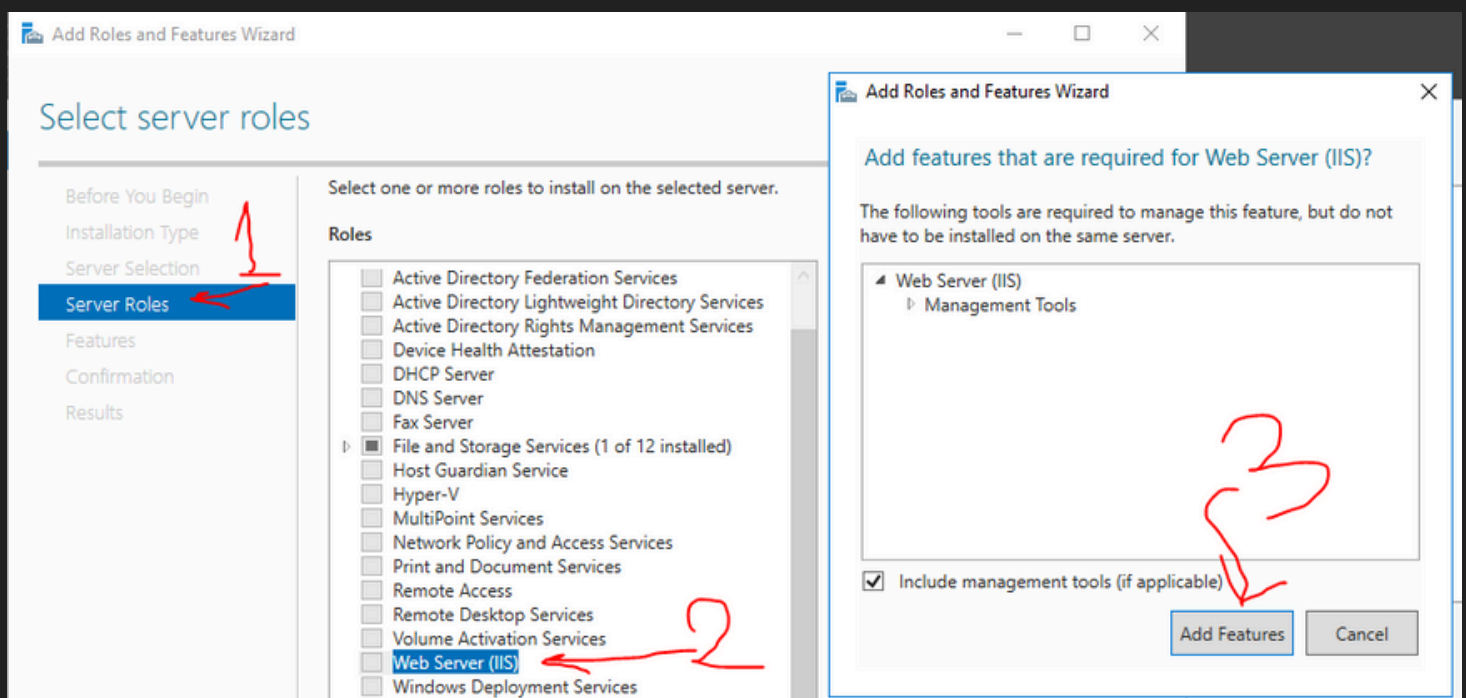
3-click on "Add Roles And Features"



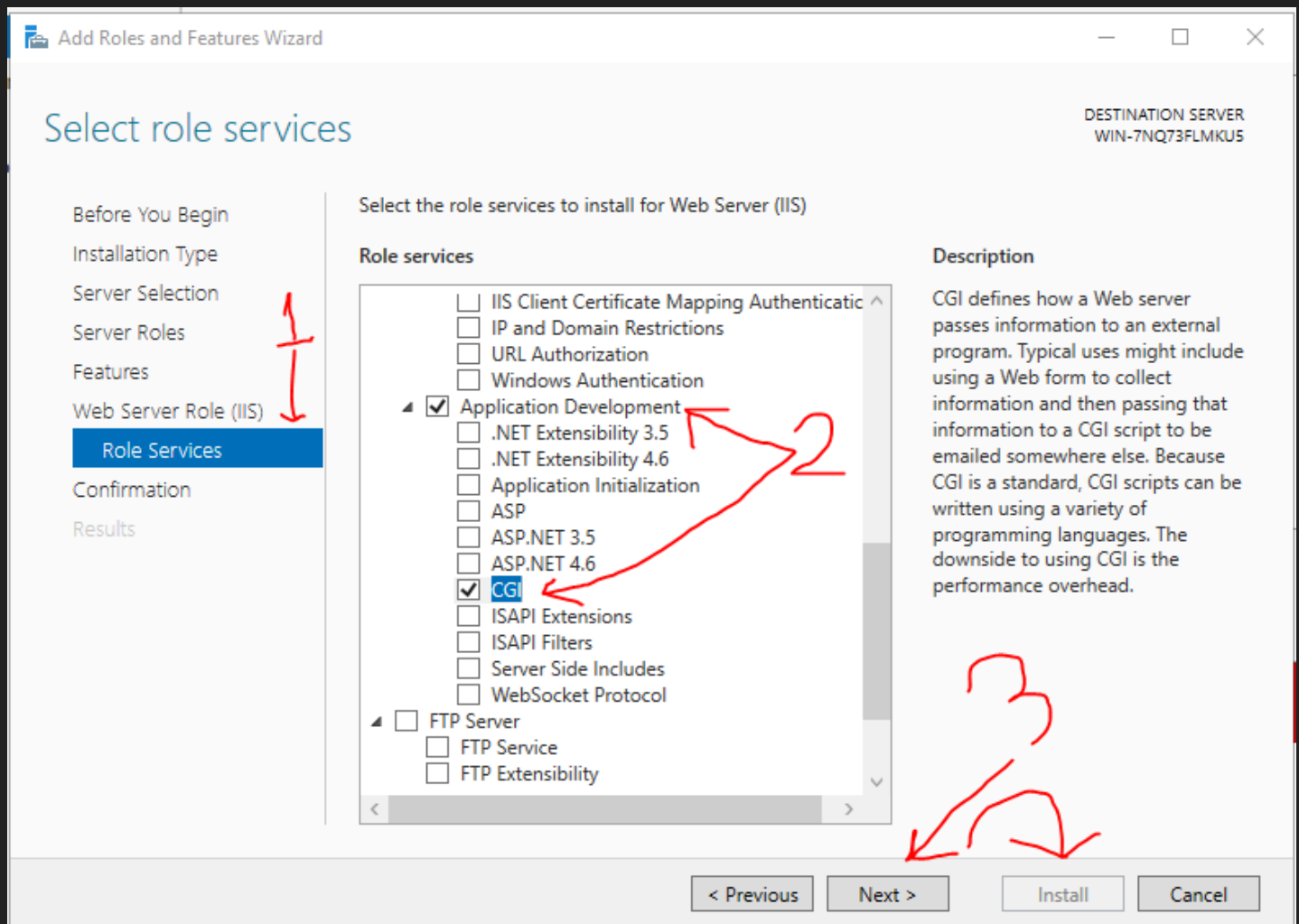
5-click on Server Selection then click Server Roles



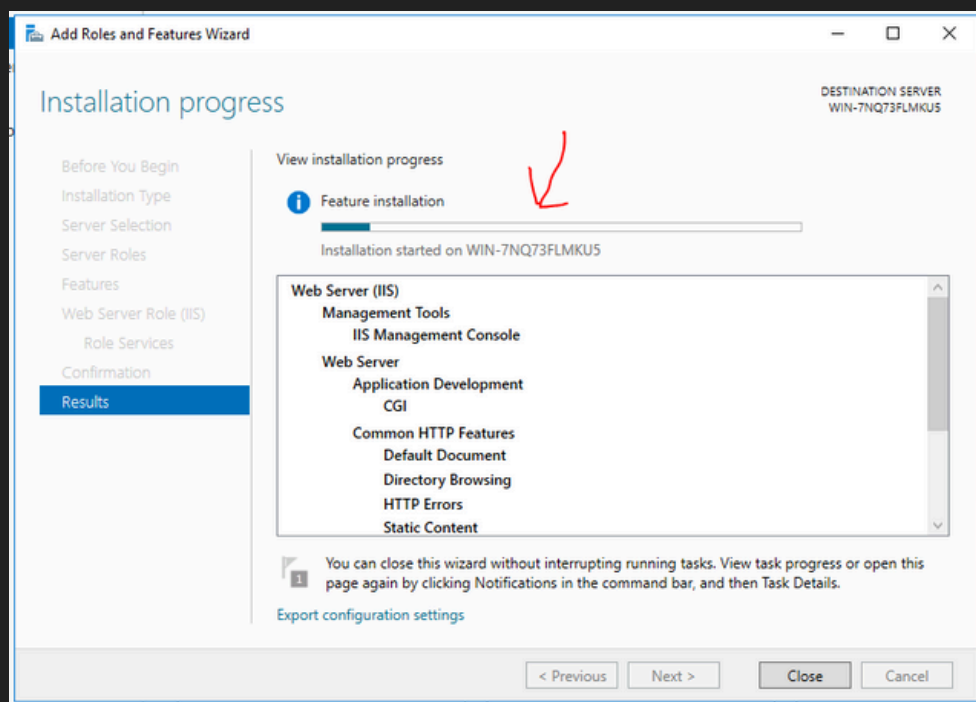
- 1-click Server Roles
- 2-click scroll down for Web Server
- 3-click on Add Features
- 3-click on Add Features



- 1-After You Click on Add Features Others Options will Show up
- 2-click on Role Services
- 3-scroll down and find select Application Development then select CGI option
- 4-After that click on next then install



Wait until that download bar complete then click close

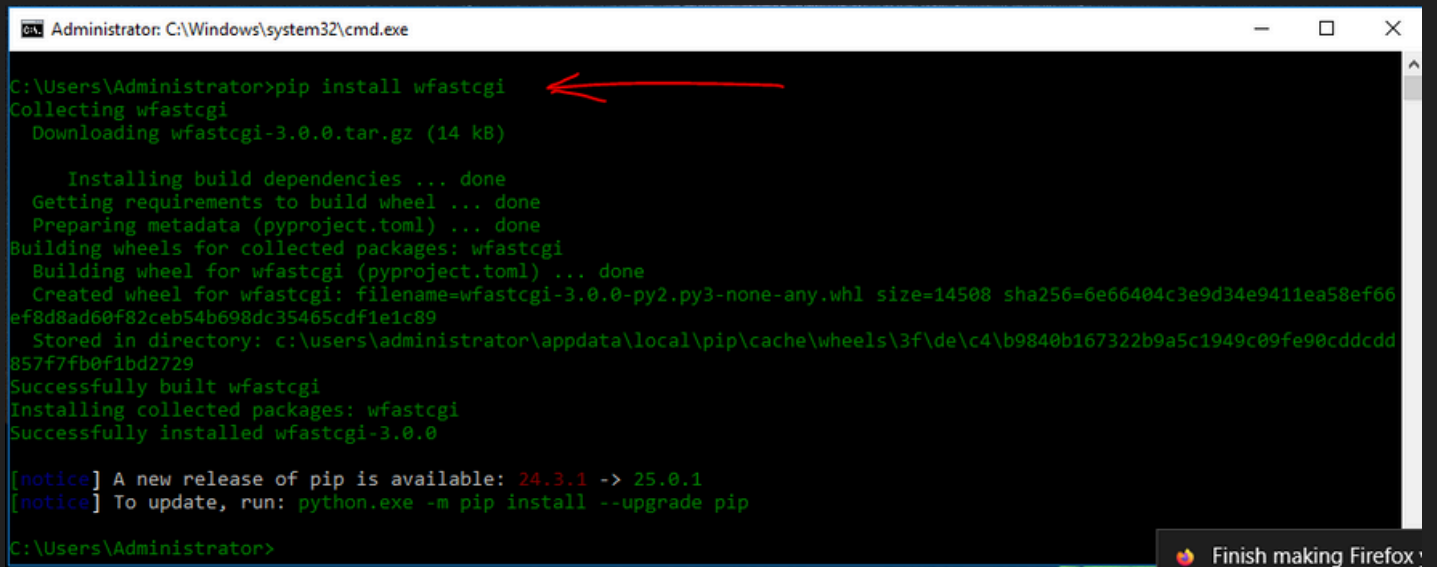


Setup Flask App On IIS

So not all we need is simple flask app wich is the one you have for the tuttrial i will use my own flask-mini kit wic it at <https://github.com/1-ASH-1/flask-startar-mini>

what you need first to do now is download wfastcgi wich is provides a bridge between IIS and Python using WSGI and FastCGI

Open cmd or terminal and install it by
`pip install wfastcgi`



```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\Administrator>pip install wfastcgi
Collecting wfastcgi
  Downloading wfastcgi-3.0.0.tar.gz (14 kB)

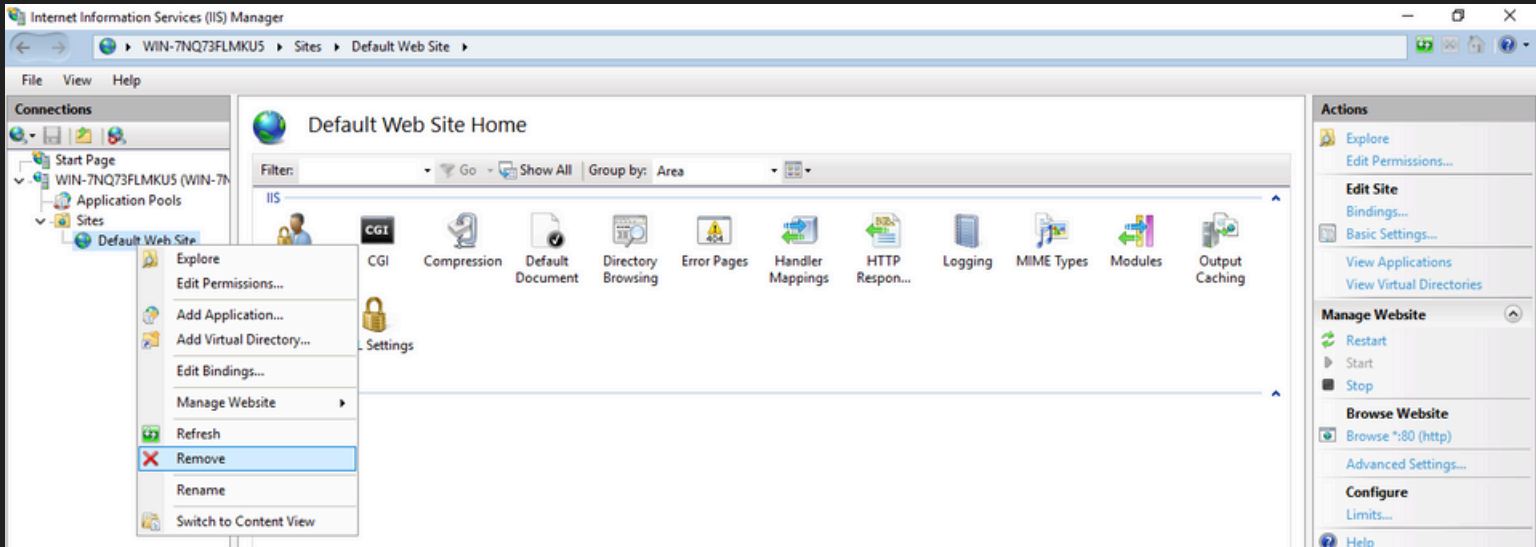
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Building wheels for collected packages: wfastcgi
  Building wheel for wfastcgi (pyproject.toml) ... done
  Created wheel for wfastcgi: filename=wfastcgi-3.0.0-py2.py3-none-any.whl size=14508 sha256=6e66404c3e9d34e9411ea58ef66ef8d8ad60f82ceb54b698dc35465cdf1e1c89
  Stored in directory: c:\users\administrator\appdata\local\pip\cache\wheels\3f\de\c4\b9840b167322b9a5c1949c09fe90cddcdd857f7fb0f1bd2729
Successfully built wfastcgi
Installing collected packages: wfastcgi
Successfully installed wfastcgi-3.0.0

[notice] A new release of pip is available: 24.3.1 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\Administrator>
```

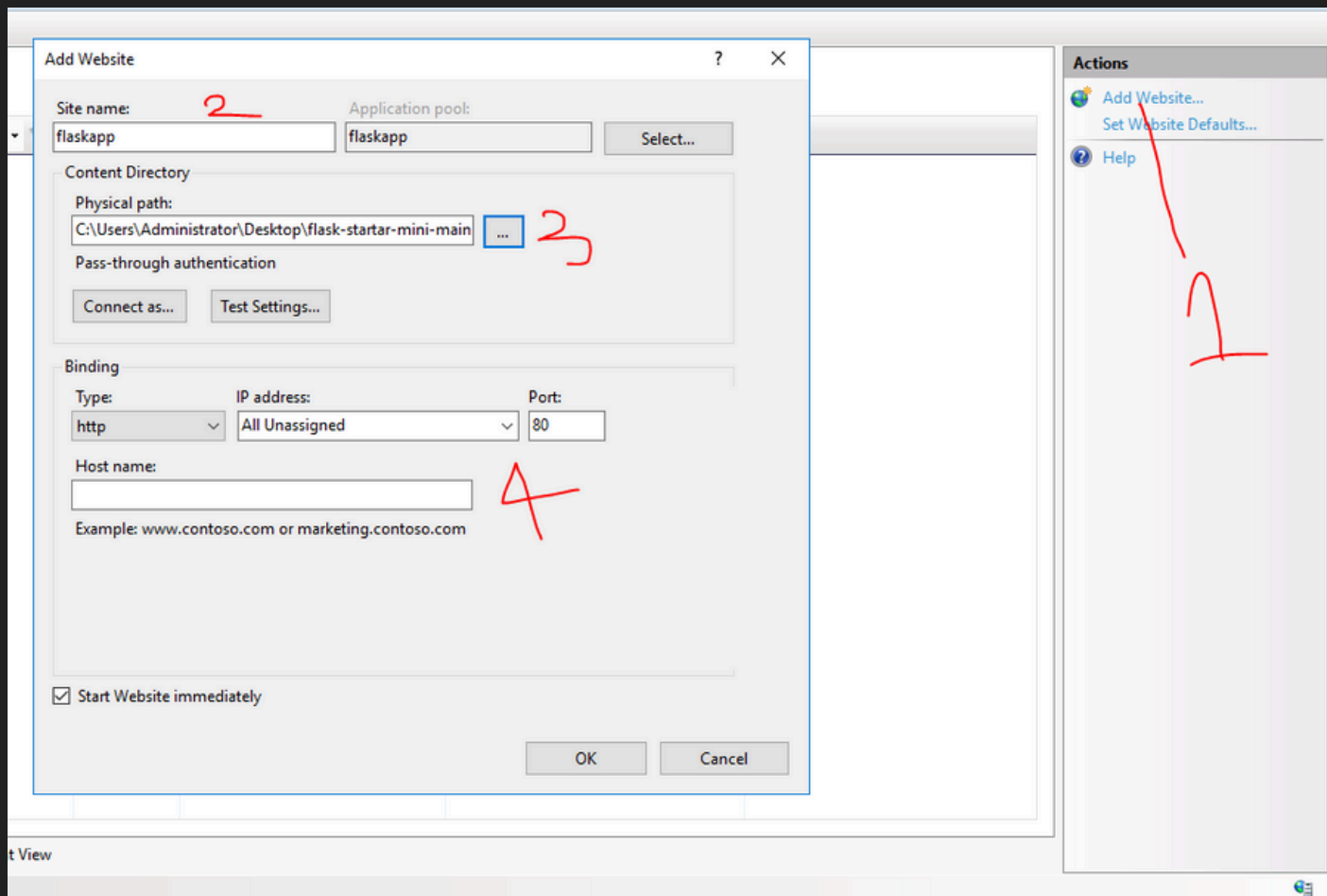
We need now to open the IIS and setup our config for flask app we have

- 1-on your keyboard hold windows icon + R
- 2- type "inetmgr" and press Enter
- 3-after you open IIS go to Sites and Remove The defulat one



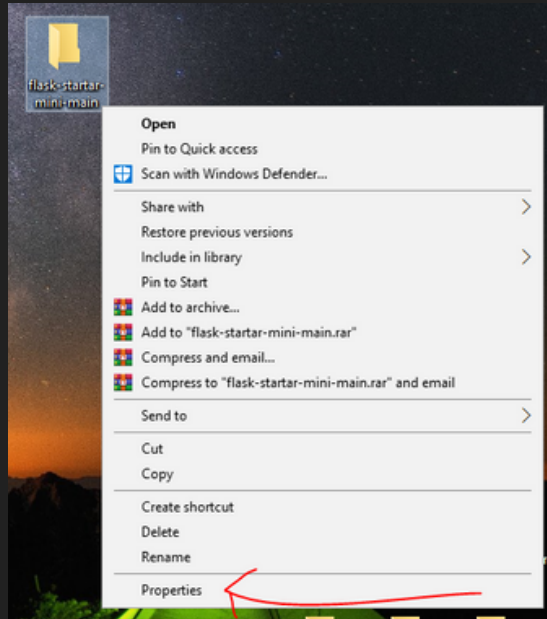
after we remove the defulat one lets setup new one for flask

- 1-click on Add Website on top right
- 2-type name for ur project site we need it later
- 3-select the path of the project
- 4-that is optinal if u want ssl so put ur domain we will cover how to get free ssl

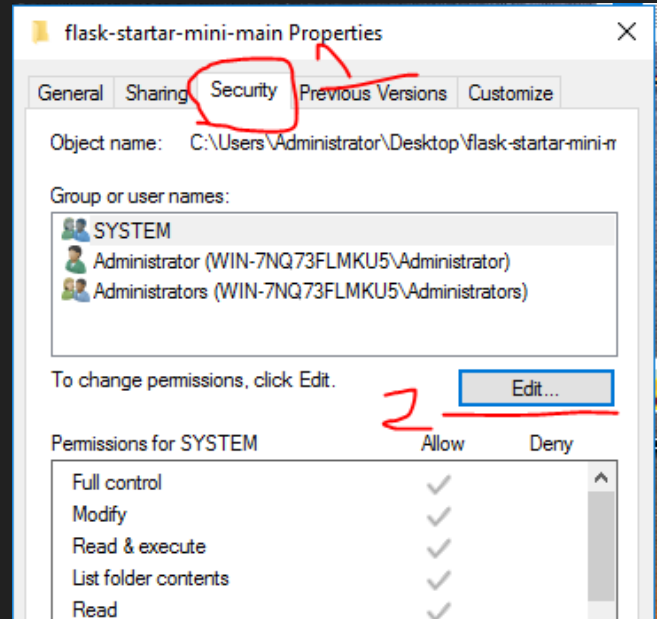


IIS requires Read and Execute permissions (e.g., IUSR, IIS_IUSRS). Without them, it may fail to load pages, causing 403 or 500 errors. so follow steps

1-right click on it then Properties

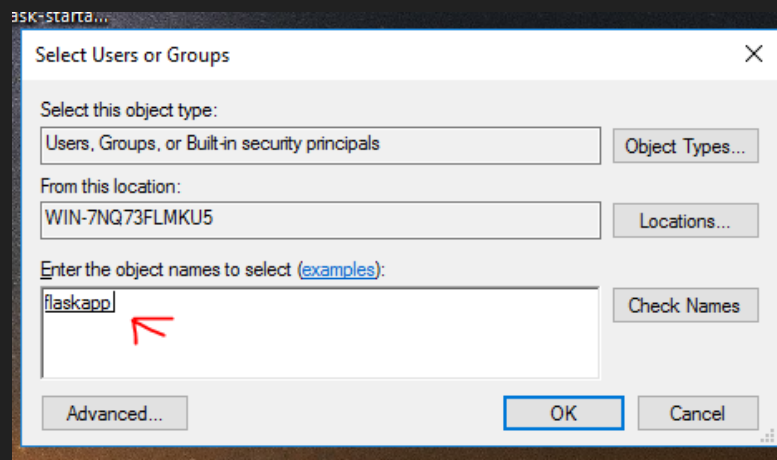
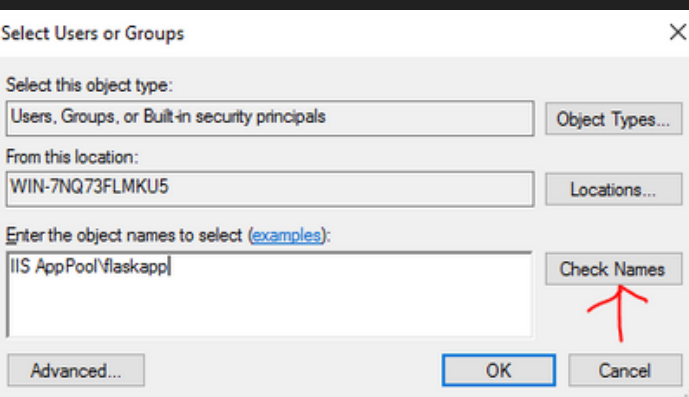


2-click on Security then click edit



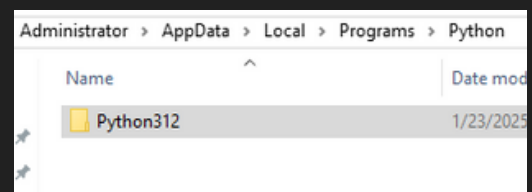
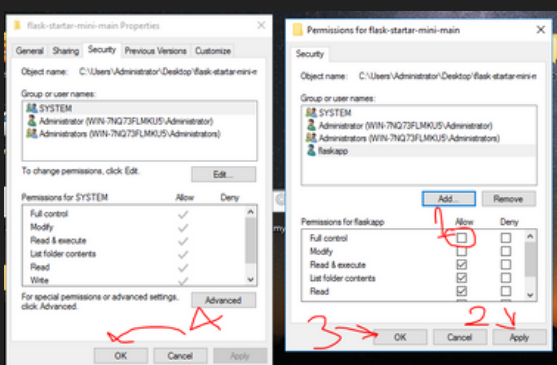
2-after you click edit that window will show on the textarea type IIS AppPool\<Your site name> that why i told you we need the site name so now in my case site name is flaskapp then click Check name

3-when you click check name its will check the site or group and if it is vaild its sholud be changed to only the sitename then click ok



3-After you click ok now give it Full control by click first checkbox on Allow checkbox then Apply then Ok as you see on steps numbers

4-now we need do same things to python folder you will find it on C:\Users\Username\AppData\Local\Programs\Python



Now we will setup the wsgi for the flask project on IIS

Go to the project folder and open cmd on it then type that command which is provided by wfastcgi

wfastcgi-enable

that command will give us two paths with that format
python.exe path | wfastcgi.py

which will be used on IIS FastCGI

```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

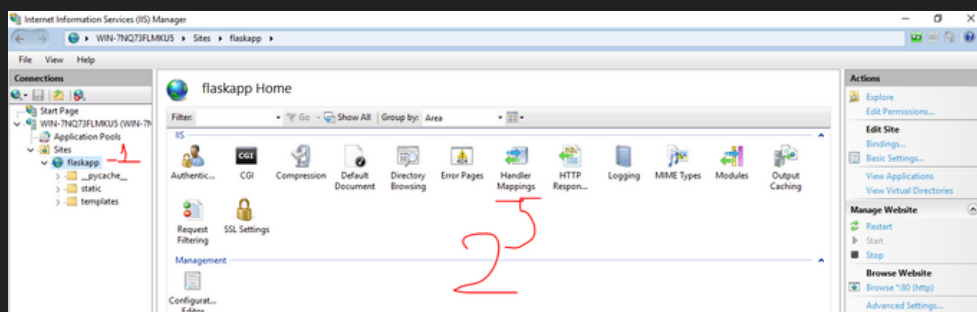
C:\Users\Administrator\Desktop\flask-starter-mini-main>wfastcgi-enable
Applied configuration changes to section "system.webServer/fastCgi" for "MACHINE/WEBROOT/APPHOST" at configuration commit path "MACHINE/WEBROOT/APPHOST"
"C:\Users\Administrator\AppData\Local\Programs\Python\Python312\python.exe|C:\Users\Administrator\AppData\Local\Programs\Python\Python312\Lib\site-packages\wfastcgi.py"
can now be used as a FastCGI script processor

C:\Users\Administrator\Desktop\flask-starter-mini-main>
```

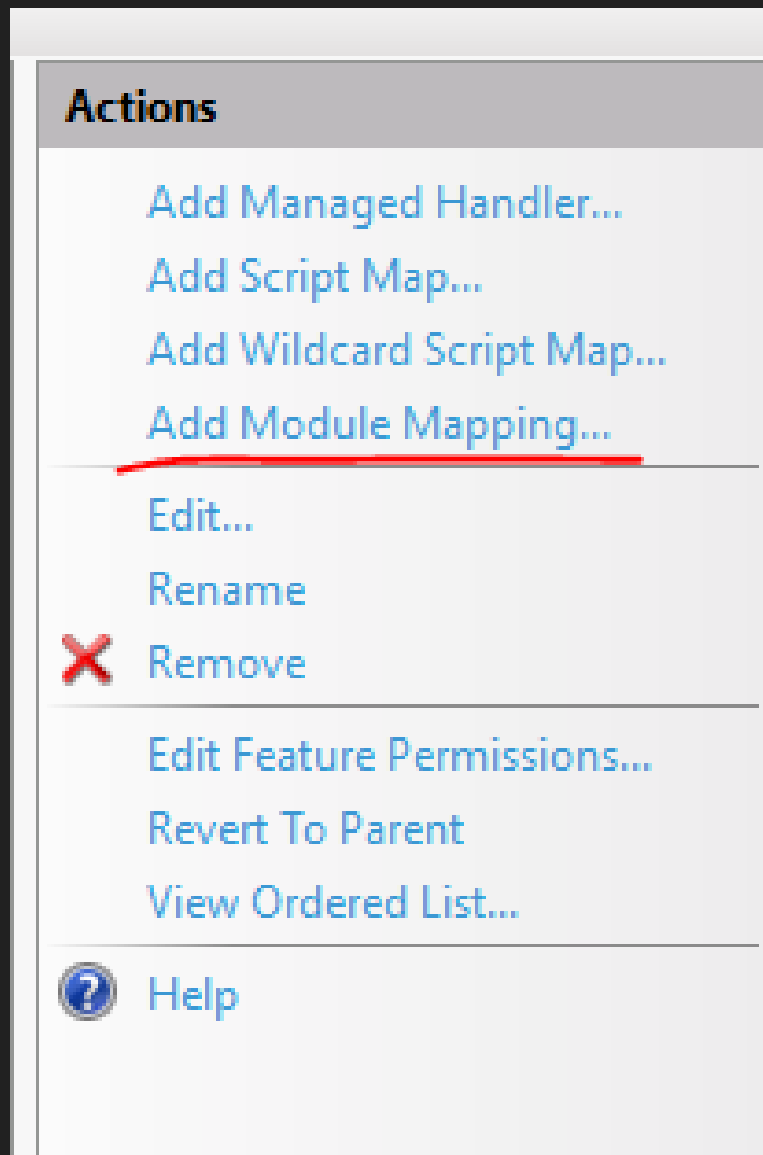
The Path is As you see is given by wfastcgi

"C:\Users\Administrator\AppData\Local\Programs\Python\Python312\python.exe|C:\Users\Administrator\AppData\Local\Programs\Python\Python312\Lib\site-packages\wfastcgi.py"

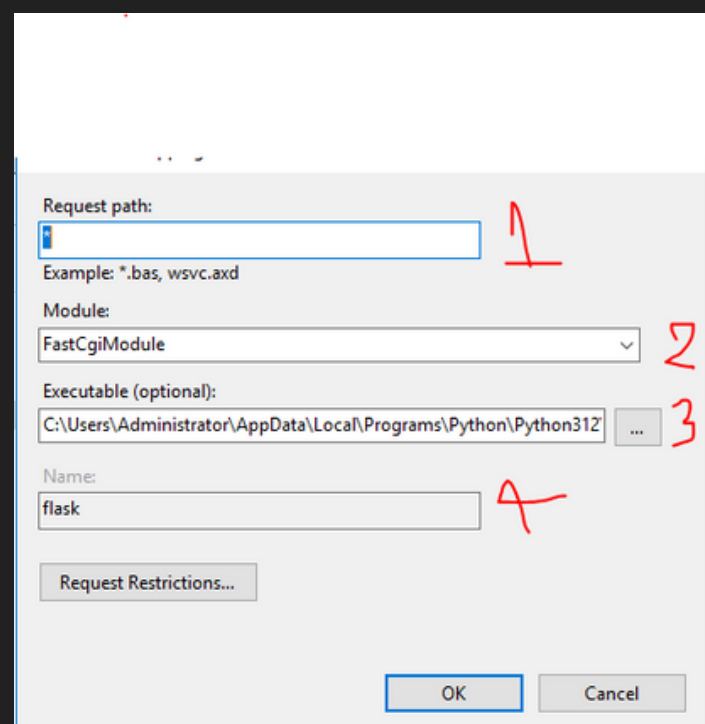
And Click on your website then click on Mapping Handler



then on right top side click Add Module Mapping



after click it the right window on image will show up



1-put *

2-select FastCgiModule

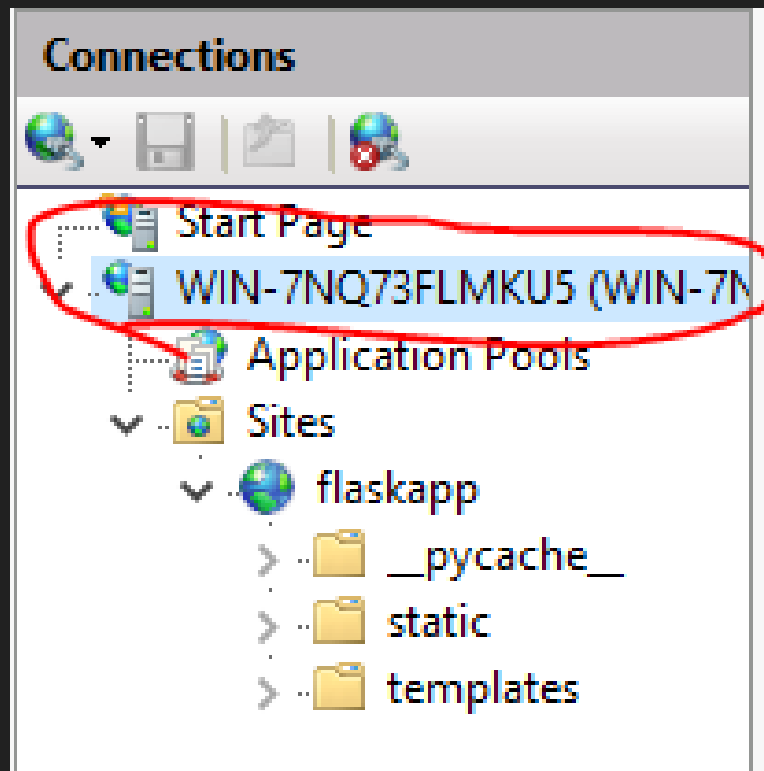
3-put the path you got from wfastcgi-enable

4-any name you like

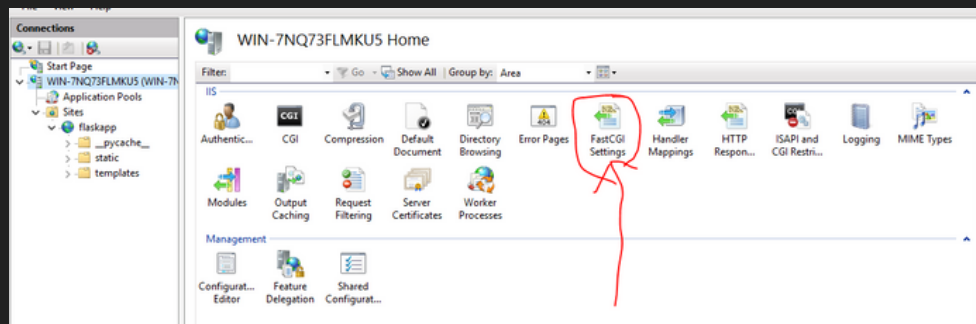
5-click on Request Restriction and
uncheck first option then back

click ok

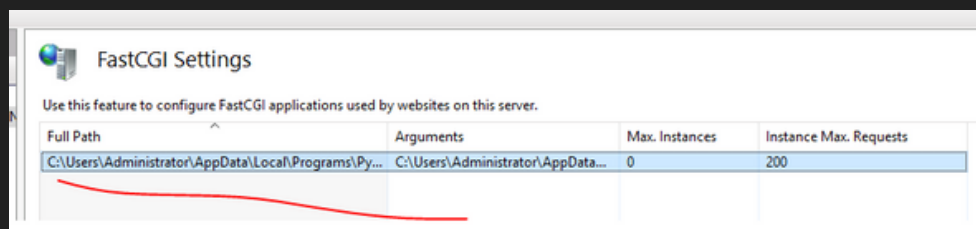
now on top left click on ur pc name



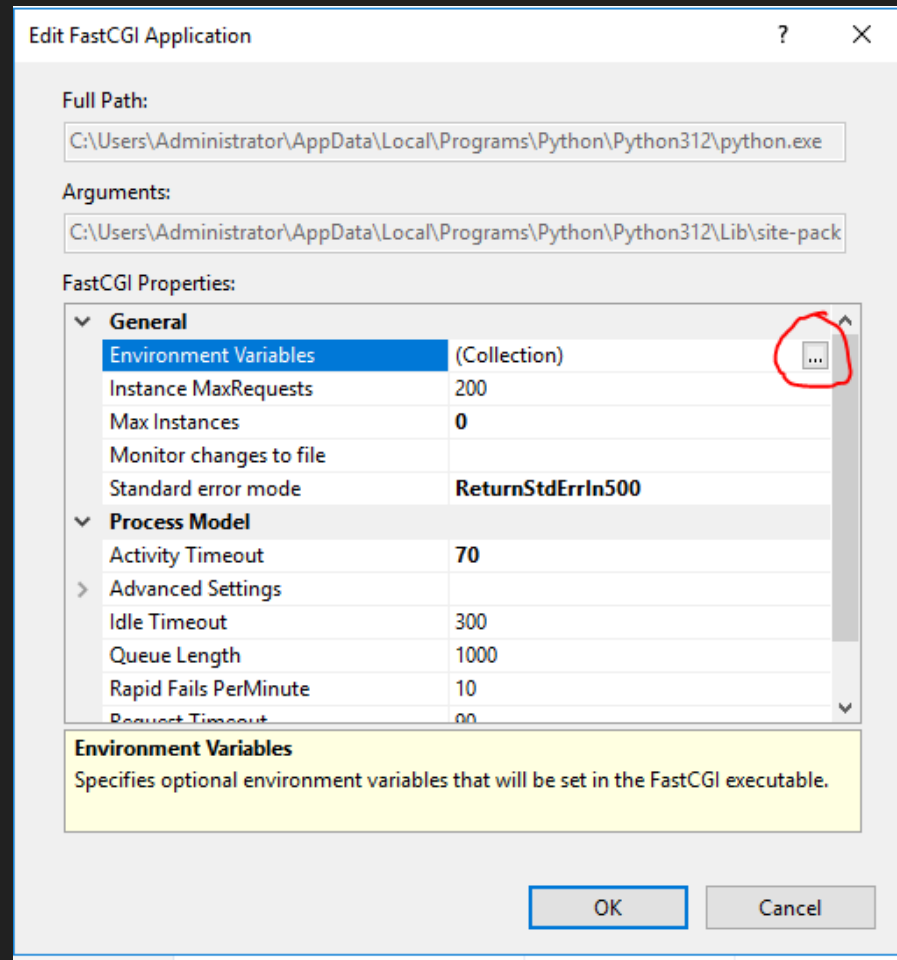
Click on FastCgi Setting



click on first path



scroll up and click on three dots



now add those paths and click ok ok

Name : PATHONPATH
VALUE : your project folder path

Name : WSGI_HANDLER
VALUE : you flask app object for
example if my app object is on
main.py wich is
app=Flask(__name__)

value will bae main.app

