To run git in CLI

- > Go to git folder in Program Files then run first > git-cmd-exe
- > the command will not run if you run it right away outside its folder

```
LITTIC
               CCH CitHub CII
                                                                                                                                                                Administrator: Command Prompt - git-cmd.exe
                10:13 am <
7 File(s)
                                         6,077,827 bytes
                     9 Dir(s)
                                   3,310,882,816 bytes free
 :\Program Files\Git>git --version
 git' is not recognized as an internal or external command,
pperable program or batch file.
C:\Program Files\Git>git --version
 git' is not recognized as an internal or external command,
operable program or batch file.
 C:\Program Files\Git>git-cmd.exe
 :\Program Files\Git>git clone https://github.com/NatNextWork1/nextwork-security-secretsmanager/blob/main/app.py
Cloning into 'app.py'...
fatal: repository 'https://github.com/NatNextWork1/nextwork-security-secretsmanager/blob/main/app.py/' not found
C:\Program Files\Git>git clone https://github.com/NatNextWork1/nextwork-security-secretsmanager.git
Cloning into 'nextwork-security-secretsmanager'...
remote: Enumerating objects: 21, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 21 (delta 6), reused 0 (delta 0), pack-reused 10 (from 1)
Receiving objects: 100% (21/21), 6.24 KiB | 6.24 MiB/s, done.
Resolving deltas: 100% (6/6), done.
```

```
Directory of C:\Program Files\Git
01/09/2025
            10:17 am
                         <DIR>
01/09/2025
            10:13 am
                         <DIR>
01/09/2025
            10:13 am
                         <DIR>
                                        bin
01/09/2025
           10:13 am
                         <DIR>
                                        cmd
01/09/2025
           10:13 am
                         <DIR>
                                        dev
01/09/2025
            10:13 am
                         <DIR>
                                        etc
19/08/2025
            08:53 am
                                138,656 git-bash.exe
19/08/2025
            08:53 am
                                138,128 git-cmd.exe
19/08/2025
            09:04 am
                                 18,765 LICENSE.txt
01/09/2025
            10:13 am
                         <DIR>
                                        mingw64
01/09/2025
                         <DIR>
            10:17 am
                                        nextwork-security-secretsmanager
19/08/2025
            09:05 am
                                286,359 ReleaseNotes.html
01/09/2025
            10:13 am
                         <DIR>
                                        tmp
01/09/2025
            10:13 am
                              1,785,948 unins000.dat
01/09/2025
            10:12 am
                              3,684,608 unins000.exe
01/09/2025
            10:13 am
                                 25,363 unins000.msg
01/09/2025
            10:13 am
                         <DIR>
                                        usr
               7 File(s)
                               6,077,827 bytes
              10 Dir(s)
                           3,310,362,624 bytes free
C:\Program Files\Git>
```



This is what you will do if Python's virtual environment is with error and will not run.

- Set execution policy to remote signed.
- > Get-ExecutionPolicy
- > Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned

These will be the following processes if there will be an error.

The folder from GitHub should be downloaded directly in the Python folder

> get clone < github http ...>

To open file,

cat <file name> or

notepad <file name>

Finish installing all files in the requirements.txt

```
CategoryInfo : ObjectNotFound: (require FullyQualifiedErrorId : CommandNotFoundException
Suggestion [3,General]: The command requirements.txt was not found, but does exist in the current location. Windows PowerShe ll does not load commands from the current location by default. If you trust this command, instead type: ".\requirements.txt ". See "get-help about_Command_Precedence" for more details.

(venv) PS C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager> notepad requirements.txt

(venv) PS C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager> cat requirements.txt
fastapi==0.115.8
uvicorn==0.34.0
boto3==1.36.20
python-multipart==0.0.5
(venv) PS C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager> dir
         Directory: C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager
                                                                                                 Length Name
                                               LastWriteTime
Mode
                               01/09/2025 11:04 am
01/09/2025 11:04 am
01/09/2025 11:04 am
                                                                                                                 static
                                                                                                      1546 app.py
262 config.py
483 Dockerfile
                               01/09/2025
01/09/2025
                                                          11:04 am
                                                          11:04 am
                                                                                                        579 index.html
                                01/09/2025
                                                          11:04 am
                                                                                                           76 requirements.txt
  (venv) PS C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager> pip3 install -r requirem
Collecting fastapi==0.115.8 (from -r requirements.txt (line 1))
Downloading fastapi-0.115.8-py3-none-any.whl.metadata (27 kB)
Collecting uvicorn==0.34.0 (from -r requirements.txt (line 2))
Downloading uvicorn-0.34.0-py3-none-any.whl.metadata (6.5 kB)
Collecting boto3==1.36.20 (from -r requirements.txt (line 3))
Downloading boto3-1.36.20-py3-none-any.whl.metadata (6.7 kB)
Collecting python-multipart==0.0.5 (from -r requirements.txt (line 4))
```

```
Downloading botocore-1.36.26-py3-none-any.whl (13.4 MB)

Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)

Downloading pydantic-2.11.7-py3-none-any.whl (44 kB)

Downloading pydantic_core-2.33.2-cp313-cp313-win_amd64.whl (2.0 MB)

Downloading python_dateutil-2.9.0.post-py2.py3-none-any.whl (229 kB)

Downloading stransfer-0.11.3-py3-none-any.whl (81 kB)

Downloading stransfer-0.11.3-py3-none-any.whl (17 kB)

Downloading stransfer-0.11.3-py3-none-any.whl (17 kB)

Downloading anyio-4.10.0-py3-none-any.whl (17 kB)

Downloading urlib3-2.5.0-py3-none-any.whl (18 kB)

Downloading urlib3-2.5.0-py3-none-any.whl (18 kB)

Downloading in-1.6.0-py3-none-any.whl (17 kB)

Downloading in-1.6.0-py3-none-any.whl (70 kB)

Downloading jana-3.10-py3-none-any.whl (18 kB)

Downloading in-1.3.1-py3-none-any.whl (10 kB)

Downloading in-1.3.1-py3-none-any.whl (10 kB)

Downloading in-1.3.1-py3-none-any.whl (18 kB)

Downloading typing.extensions-4.15.0-py3-none-any.whl (18 kB)

Downloading typing.spection-0.4.1-py3-none-any.whl (19 kB)
```

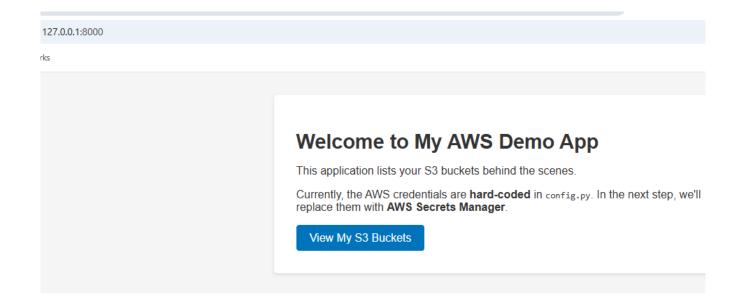
```
Successfully built python-multipart
Installing collected packages: urllib3, typing-extensions, sniffio, six, jmespath, idna, h11, colorama, annotated-types, typ
ing-inspection, python-multipart, python-dateutil, pydantic-core, click, anyio, uvicorn, starlette, pydantic, botocore, s3tr
ansfer, fastapi, boto3
Successfully installed annotated-types-0.7.0 anyio-4.10.0 boto3-1.36.20 botocore-1.36.26 click-8.2.1 colorama-0.4.6 fastapi-
0.115.8 h11-0.16.0 idna-3.10 jmespath-1.0.1 pydantic-2.11.7 pydantic-core-2.33.2 python-dateutil-2.9.0.post0 python-multipar
t-0.0.5 s3transfer-0.11.3 six-1.17.0 sniffio-1.3.1 starlette-0.45.3 typing-extensions-4.15.0 typing-inspection-0.4.1 urllib3
  venv) PS C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager> pip list
                            0.7.0
4.10.0
annotated-types
boto3
                            1.36.20
                            1.36.26
botocore
click
                            8.2.1
colorama
                            0.4.6
 astapi
                            0.115.8
h11
                            0.16.0
idna
                            3.10
jmespath
                            1.0.1
                            25.2
pydantic
pydantic_core
                            2.33.2
python-dateutil
                            2.9.0.post0
python-multipart
                            0.0.5
s3transfer
                            0.11.3
six
sniffio
                            1.17.0
                            1.3.1
starlette
                            0.45.3
 yping_extensions 4.15.0
typing-inspection 0.4.1
urllib3 2.5.0
                            2.5.0
                            0.34.0
uvicorn
  venv) PS C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>
```

A new virtual environment: a virtual environment is like a folder that keeps all the tools and packages for a specific project in one place. In our case, the virtual environment will keep all the packages we need to run this web app.

Packages or libraries are pre-written code that you can use in your project. For example, if you're building a weather app, you could use a package that lets you make API requests to get the weather data.

You should see boto3 and other packages like fastapi and uvicorn in the list of installed packages.

- -Now that we've installed the dependencies, let's run the application again.
- -If you use this http://0.0.0.0:8000 you can't access the page
- -Use this http://localhost:8000 or http://127.0.0.1:8000



```
T Highlight H \square Ask A + Note
```

• In your terminal, type git commit -m "Updated config.py with hardcoded credentials" and press **Enter**. Committing in Git saves a snapshot of your changes.

You will get an error in this step.

```
(venv) C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>git add .
(venv) C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>git commit -m "Updated config.py with hardcoded credentials"
Author identity unknown

*** Please tell me who you are.
Run
git config --global user.email "you@example.com"
git config --global user.email "you@example.com"
git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.
```

Do this.

```
fatal: unable to auto-detect email address (got 'Wency@UESKIOP-IHCD/9D.(None)')

(venv) C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>git config --global user.name "whenzvarrerz"

(venv) C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>git config --global user.email "wency_barrera@yahoo.com"

(venv) C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>git commit -m "Updated config.py with hardcoded credentials"

[main 31de54b] Updated config.py with hardcoded credentials

2 files changed, 3 insertions(+), 3 deletions(-)
create mode 100644 __pycache__/config.cpython-313.pyc

(venv) C:\Users\Wency\AppData\Local\Programs\Python\Python313\nextwork-security-secretsmanager>
```

```
git config --global user.name "Wency"
git config --global user.email "wency@example.com"
```

You will see this error, and this is where AWS Secrets Manager comes in.

```
te:

te: - GITHUB PUSH PROTECTION

te: - Resolve the following violations before pushing again

te: - Push cannot contain secrets

te: te: (?) Learn how to resolve a blocked push

te: https://docs.github.com/code-security/secret-scanning/working-with-secret-scanning-and-push-protection/working-with

te: te: te: te: te: https://docs.github.com/code-security/secret-scanning/working-with-secret-scanning-and-push-protection/working-with
```

Remove hard-coded credentials from Commit History

- Identify commit ID first 7 digits.
- Search for the commit ID in the rebase
- Replace "pick" with "d"

```
Administrator Command Prompt-git rebase-i--root
pick 6c3a9ca # first commit
pick 7e6497c # belete .DS_Store
pick 8c63f73 # Update config.py
pick 201e292 # Update config.py
pick 9186d38 # Updated config.py
pick 31de54b # Updated config.py with hardcoded credentials
pick 8bd30b4 # Updated config.py with Secrets Manager credentials

# Rebase 8bd30b4 onto f6636f4 (7 commands)

# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
# s, squash <commit> = use commit, but meld into previous commit
# f, fixup [-C | -c] <commit> = like "squash" but keep only the previous
commit's log message, unless -C is used, in which case
# commit's log message, unless -C is used, in which case
# weep only this commit's message; -c is same as -C but
opens the editor
# x, exec <command> = run command (the rest of the line) using shell
# b, break = stop here (continue rebase later with 'git rebase --continue')
# d, drop <commit> = remove commit
# 1, label <label> = label current HEAD with a name
```