



# 다운로드

- download → <https://www.apachelounge.com/download/>



POWERED BY  
**APACHE**

Apache Lounge  
Webmasters

- Home
- VS16**
- VC15
- Additional

NEW

17 March 2022  
mod\_qos added

16 March 2022  
httpd 2.4.53  
Dropping Win32 Download,  
see [Drop Win32](#)

Dropping VC15 Download,  
see [Drop VC15](#)

18 February 2022  
New C++ Redistributable

04 January 2022  
VS17 Goodies [Download](#)

01 January 2022  
ModSecurity 2.9.5

22 December 2021  
ModSecurity  
fix for handle leak

20 December 2021  
httpd 2.4.52

Apache 2.4 VS16 Windows Binaries and Modules

Apache Lounge has provided up-to-date Windows binaries and popular third-party modules for more than 15 years. We have hundreds of thousands of satisfied users: small and big latest compilers, and tested thorough. The binaries are referenced by the ASF, Microsoft, PHP etc. and more and more software is packaged with our binaries and modules.

The binaries, are build with the sources from ASF at [httpd.apache.org](http://httpd.apache.org), contains the latest patches and latest dependencies like zlib, openssl etc. which makes the downloads here m and 2003. Runs on: 7 SP1, Vista SP2, 8/8.1, 10, 11 Server 2008 SP2 / R2 SP1, Server 2012 / R2, Server 2016/2019/2022.

Build with the latest Windows® Visual Studio C++ 2019 aka VS16. VS16 has improvements, fixes and optimizations over VC15 in areas like Performance, MemoryManagement, Net quality tuning and improvements done across different code generation areas for "speed". And makes more use of latest processors and supported Windows editions (win7 and up)

**VS16 is backward compatible**, see [Compatibility VS16](#). You can use a VC15/14 module inside a VS16 binary, for example PHP VC15/14 as module,

**Be sure** you installed latest 14.31.31103.0 Visual C++ Redistributable Visual Studio 2015-2022 : [vc\\_redist\\_x64](#) or [vc\\_redist\\_x86](#) see [Redistributable](#)

Apache 2.4 binaries VS16

[Info & Changelog](#)

Apache 2.4.53 Win64

 [httpd-2.4.53-win64-VS16.zip](#) 16 Mar '22 10.570k

[PGP Signature](#) (Public [PGP key](#)), SHA1-SHA512 [Checksums](#)

Apache 2.4.53 Win32

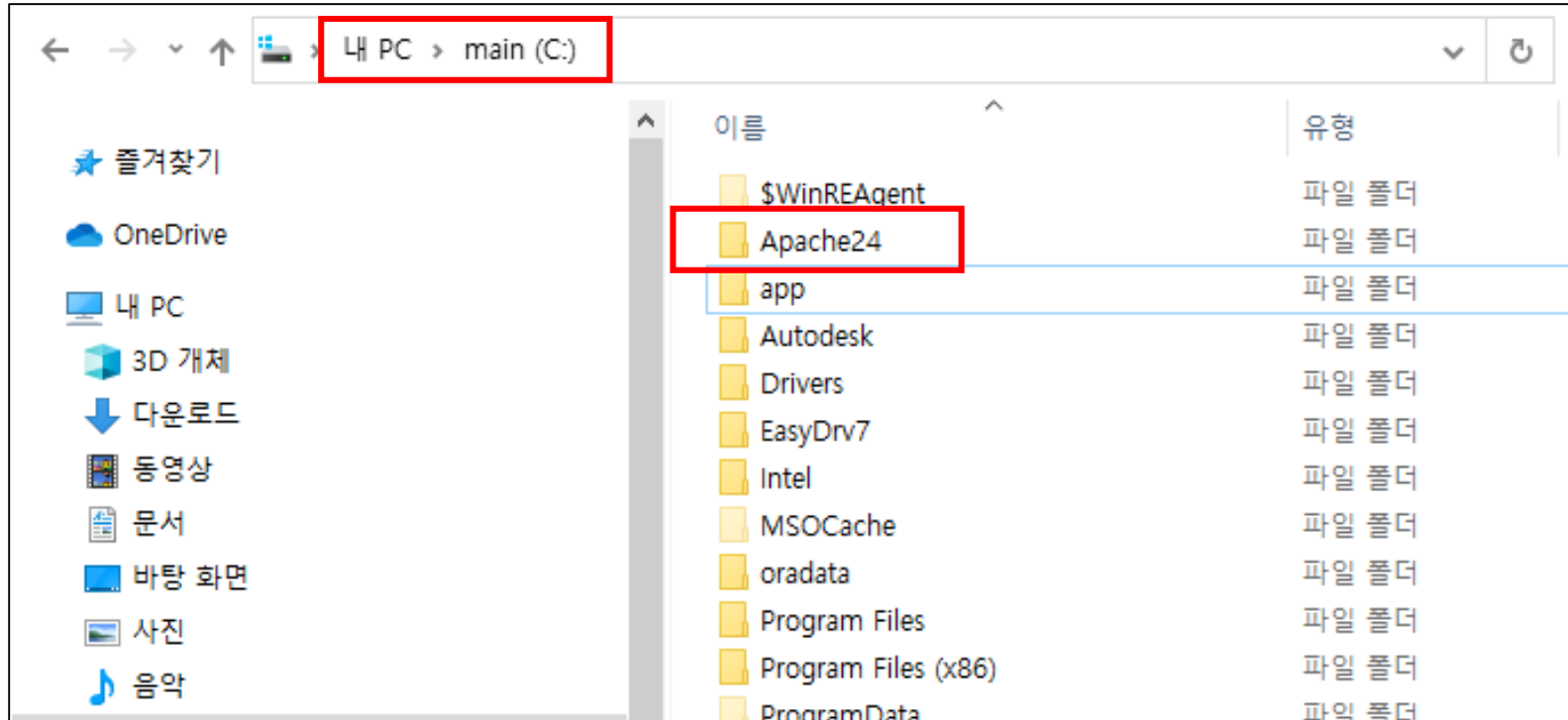
 [httpd-2.4.53-win32-VS16.zip](#) 16 Mar '22 9.652k

[PGP Signature](#) (Public [PGP key](#)), SHA1-SHA512 [Checksums](#)

To be sure that a download is intact and has not been tampered with, use PGP, see [PGP Signature](#)

# 설치

- 다운로드 완료 → 압축 해제 → Apache24 폴더를 C:\ 하위에 복사



# 서버 설정 변경

- httpd.conf 파일 수정

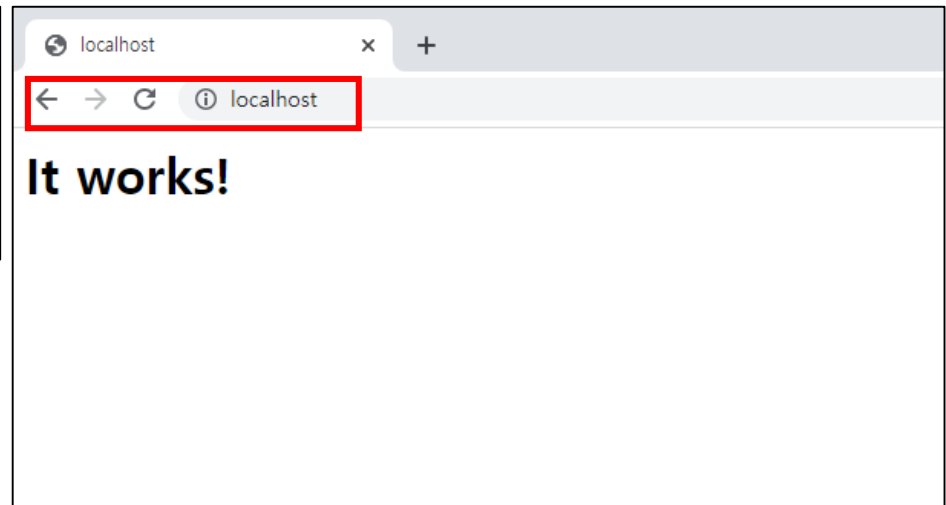
```
220 #
221 # ServerName gives the name and port that the server uses to identify itself.
222 # This can often be determined automatically, but we recommend you specify
223 # it explicitly to prevent problems during startup.
224 #
225 # If your host doesn't have a registered DNS name, enter its IP address here.
226 #
227 # ServerName www.example.com:80
228 ServerName localhost:80
229
```

- 서버 실행

```
관리자: 명령 프롬프트 - httpd.exe

C:\Users\WAdministrator>cd C:\WApache24\bin

C:\WApache24\bin>
C:\WApache24\bin>httpd.exe
```



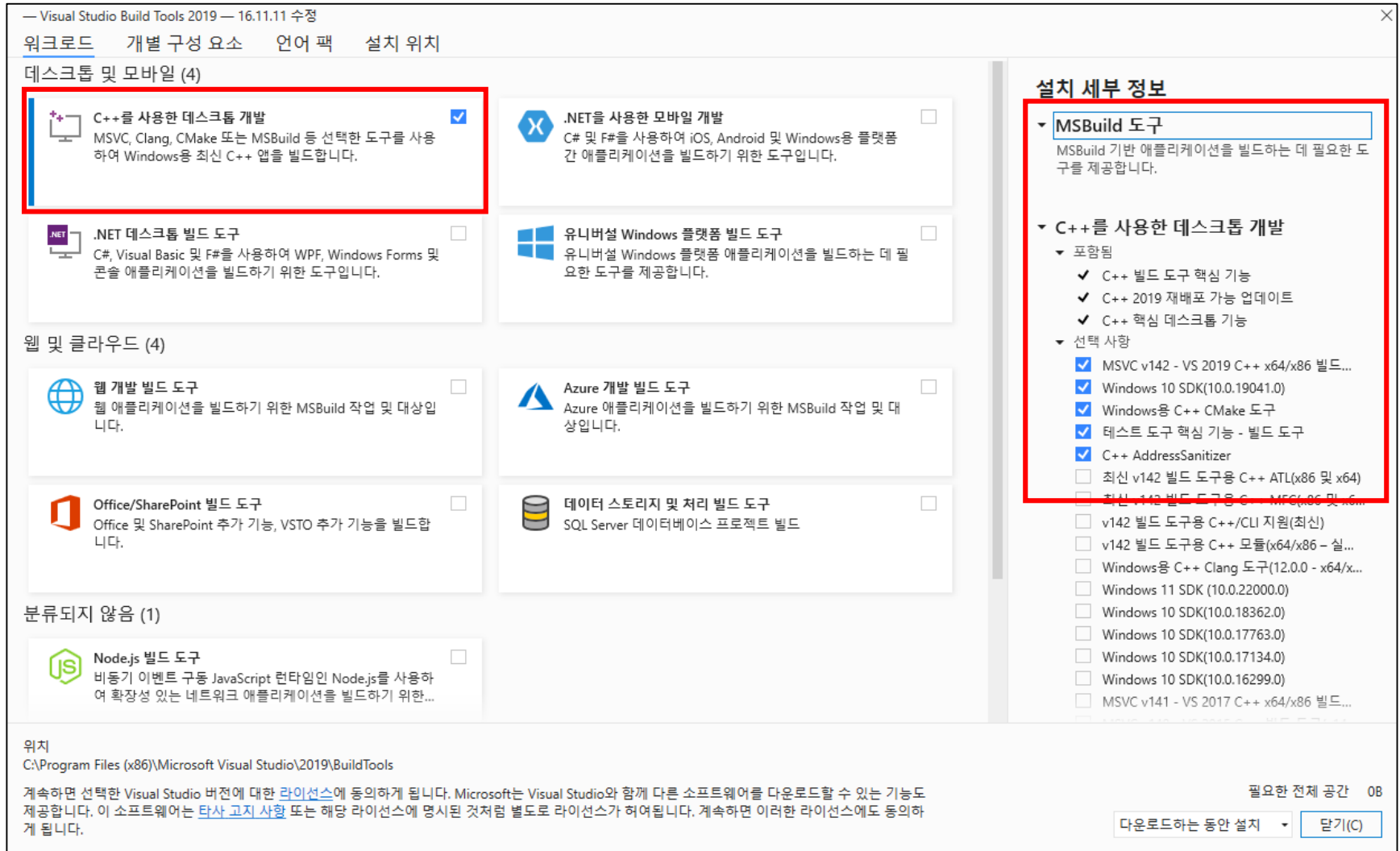
# visual studio build tools 설치

- download → <https://visualstudio.microsoft.com/ko/visual-cpp-build-tools/>



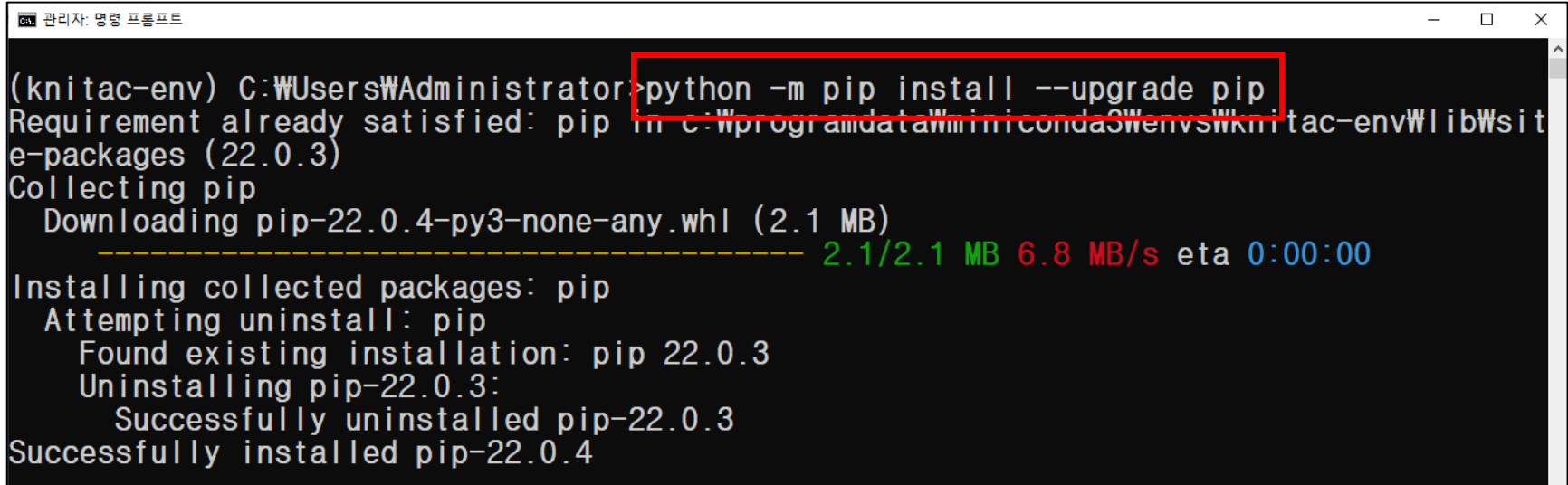
# visual studio build tools 설치

## • 다운로드 후 설치



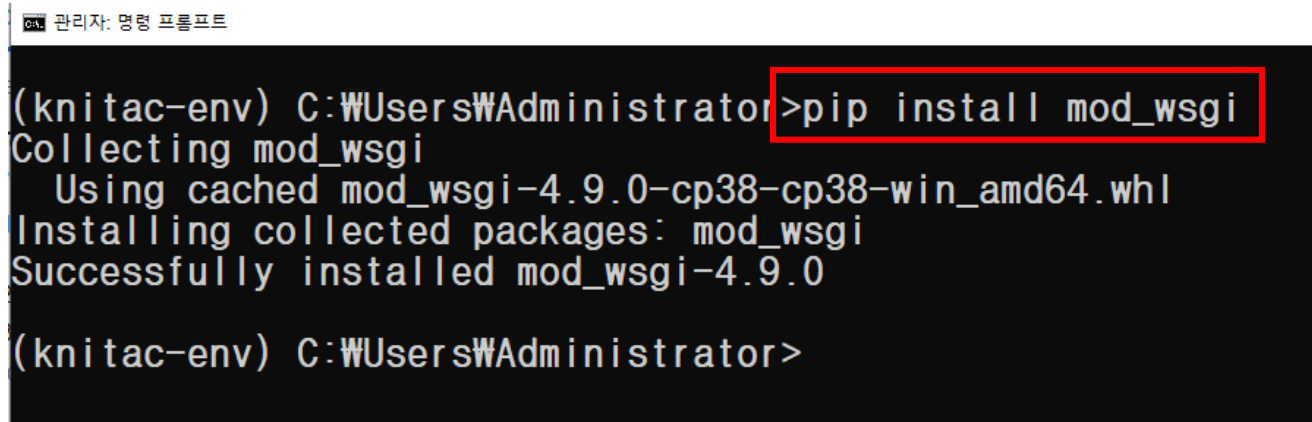
# mod\_wsgi 모듈 설치

- pip upgrade

A terminal window titled '관리자: 명령 프롬프트' (Administrator: Command Prompt) showing the execution of 'python -m pip install --upgrade pip'. The command is highlighted with a red box. The output shows that the requirement is already satisfied for pip 22.0.3, but it proceeds to collect and download pip-22.0.4-py3-none-any.whl (2.1 MB) at a speed of 6.8 MB/s. It then uninstalls the existing pip-22.0.3 and successfully installs pip-22.0.4.

```
(knitac-env) C:\Users\Administrator>python -m pip install --upgrade pip
Requirement already satisfied: pip in c:\programdata\miniconda3\envs\knitac-env\lib\site-packages (22.0.3)
Collecting pip
  Downloading pip-22.0.4-py3-none-any.whl (2.1 MB)
----- 2.1/2.1 MB 6.8 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.0.3
    Uninstalling pip-22.0.3:
      Successfully uninstalled pip-22.0.3
Successfully installed pip-22.0.4
```

- mod\_wsgi 설치

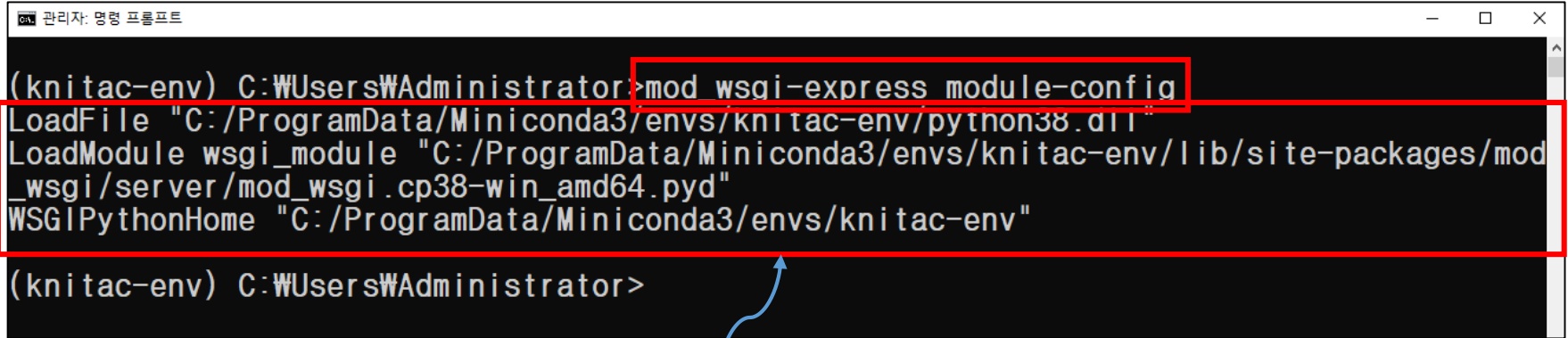
A terminal window titled '관리자: 명령 프롬프트' (Administrator: Command Prompt) showing the execution of 'pip install mod\_wsgi'. The command is highlighted with a red box. The output shows that it collects mod\_wsgi, uses a cached wheel file (mod\_wsgi-4.9.0-cp38-cp38-win\_amd64.whl), and successfully installs mod\_wsgi-4.9.0.

```
(knitac-env) C:\Users\Administrator>pip install mod_wsgi
Collecting mod_wsgi
  Using cached mod_wsgi-4.9.0-cp38-cp38-win_amd64.whl
Installing collected packages: mod_wsgi
Successfully installed mod_wsgi-4.9.0

(knitac-env) C:\Users\Administrator>
```

# 서버 설정

- 설정 내용 생성



```
(knitac-env) C:\Users\Administrator>mod_wsgi-express module-config
LoadFile "C:/ProgramData/Miniconda3/envs/knitac-env/python38.dll"
LoadModule wsgi_module "C:/ProgramData/Miniconda3/envs/knitac-env/lib/site-packages/mod
_wsgi/server/mod_wsgi.cp38-win_amd64.pyd"
WSGIPythonHome "C:/ProgramData/Miniconda3/envs/knitac-env"
(knitac-env) C:\Users\Administrator>
```

명령 실행 후 결과 내용 복사



# 서버 설정

- Apache 설치 경로/conf/httpd.conf 파일 수정 ( 마지막 부분에 추가 )

```
LoadFile "C:/ProgramData/Miniconda3/envs/knitac-env/python38.dll"
LoadModule wsgi_module "C:/ProgramData/Miniconda3/envs/knitac-env/lib/site-
packages/mod_wsgi/server/mod_wsgi.cp38-win_amd64.pyd"
WSGIPythonHome "C:/ProgramData/Miniconda3/envs/knitac-env"

WSGIScriptAlias / "D:\instructor\work\mysite2\config\wsgi.py"
WSGIPythonPath "D:\instructor\work\mysite2"

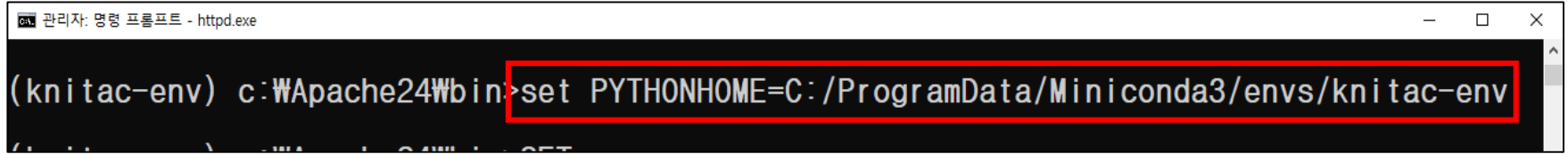
<Directory "D:\instructor\work\mysite2\config">
    <Files wsgi.py>
        Require all granted
    </Files>
</Directory>

Alias /static/ D:/instructor/work/mysite2/static/
<Directory D:/instructor/work/mysite2/static/>
    Require all granted
</Directory>

Alias /media/ D:/instructor/work/mysite2/media/
<Directory D:/instructor/work/mysite2/media/>
    Require all granted
</Directory>
```

# 서버 실행

- Python 경로 환경 변수 설정



```
(knitac-env) c:\WApache24\bin>set PYTHONHOME=C:/ProgramData/Miniconda3/envs/knitac-env
```

- Apache 서버 실행



```
(knitac-env) c:\WApache24\bin>httpd.exe
```

- 브라우저에서 확인

