

pip로 docker-compose 설치 오류

1. 환경정보

- os : centos7
- pip : pip2 / pip3

2. 작업사항

- pip2가 설치되어 있는 서버에서 새로운 pip를 올리려고 했더니 python3에서 사용해야 한다함
- pip 커맨드가 pip2로 심볼릭 링크 걸려있는 상태에서 pip3로 교체

```
$> ls -l pip
/usr/bin/pip -> /usr/bin/pip2
$> ln -snf /usr/bin/pip3 /usr/bin/pip
$> pip -V
pip 21.0.1 from /usr/local/lib/python3.6/site-packages/pip (python 3.6)
```

3. pip를 통해 docker-compose 설치

```
$ pip install docker-compose
```

```
Collecting cryptography>=2.5 (from paramiko>=2.4.2; extra == "ssh"->docker[ssh]<5,>=4.4.3->docker-compose)
Downloading http://python.org/pypi/+ff2d3/2223e5b0ee029/cryptography-3.4.6.tar.gz (546kB)
100% |██████████████████████████████████████████████████████████████████████████| 552kB 43.7MB/s
Complete output from command python setup.py egg_info:
WARNING: The wheel package is not available.
ERROR: 'pip wheel' requires the 'wheel' package. To fix this, run: pip install wheel
Traceback (most recent call last):
  File "/usr/local/lib/python3.6/site-packages/setuptools/installer.py", line 75, in fetch_build_egg
    subprocess.check_call(cmd)
  File "/usr/lib64/python3.6/subprocess.py", line 311, in check_call
    raise CalledProcessError(retcode, cmd)
subprocess.CalledProcessError: Command '['/usr/bin/python3', '-m', 'pip', '--disable-pip-version-check', 'wheel', '--no-deps', '-w', '/tmp/tmpn5ys3xpr', '--quiet', 'cffi>=1.12']' returned non-zero exit status 1.
```

The above exception was the direct cause of the following exception: Traceback (most recent call last): File "<string>", line 1, in <module> File "/tmp/pip-build-0pwkcfz1/cryptography/setup.py", line 152, in <module> rust_extensions=rust_extensions, File "/usr/local/lib/python3.6/site-packages/setuptools/_init_.py", line 152, in setup _install_setup_requires(attrs) File "/usr/local/lib/python3.6/site-packages/setuptools/_init_.py", line 147, in _install_setup_requires dist.fetch_build_eggs(dist.setup_requires) File "/usr/local/lib/python3.6/site-packages/setuptools/dist.py", line 689, in fetch_build_eggs replace_conflicting=True, File "/usr/local/lib/python3.6/site-packages/pkg_resources/_init_.py", line 768, in resolve replace_conflicting=replace_conflicting File "/usr/local/lib/python3.6/site-packages/pkg_resources/_init_.py", line 1051, in best_match return self.obtain(req, installer) File "/usr/local/lib/python3.6/site-packages/pkg_resources/_init_.py", line 1063, in obtain return installer(requirement) File "/usr/local/lib/python3.6/site-packages/setuptools/dist.py", line 745, in fetch_build_egg return fetch_build_egg(self, req) File "/usr/local/lib/python3.6/site-packages/setuptools/installer.py", line 77, in fetch_build_egg raise DistutilsError(str(e)) from e distutils.errors.DistutilsError: Command '['/usr/bin/python3', '-m', 'pip', '--disable-pip-version-check', 'wheel', '--no-deps', '-w', '/tmp/tmpn5ys3xpr', '--quiet', 'cffi>=1.12']' returned non-zero exit status 1.

```
=====DEBUG ASSISTANCE=====
If you are seeing a compilation error please try the following steps to successfully install cryptography:
1) Upgrade to the latest pip and try again. This will fix errors for most users. See: https://pip.pypa.io/en/stable/installing/#upgrading-pip
2) Read https://cryptography.io/en/latest/installation.html for specific instructions for your platform.
3) Check our frequently asked questions for more information: https://cryptography.io/en/latest/faq.html
4) Ensure you have a recent Rust toolchain installed: https://cryptography.io/en/latest/installation.html#rust
5) If you are experiencing issues with Rust for *this release only* you may set the environment variable `CRYPTOGRAPHY_DONT_BUILD_RUST=1`.
=====DEBUG ASSISTANCE=====
Command "python setup.py egg_info" failed with error code 1 in /tmp/pip-build-0pwkcfz1/cryptography/
```

- 하지만 에러...????

4. 발생원인

- pip모듈을 2버전에서 3버전으로 단순히 심볼릭 링크만 바꾸었던게 문제인듯...
- python모듈이 2버전으로 설치가 되어 있었을텐데..... 그래서 python3용으로 패키지 강제 재설치

5. 추가작업

```
$ pip install --upgrade setuptools pip --ignore-installed
WARNING: Running pip install with root privileges is generally not a good idea. Try pip install --user instead. Collecting setuptools
Downloading setuptools-53.0.0-py3-none-any.whl (784kB) 100%
```

[illegible]

6. 다시 docker-compose 설치

```
$ pip install docker-compose
WARNING: pip is being invoked by an old script wrapper. This will fail in a future version of pip.
Please see https://github.com/pypa/pip/issues/5599 for advice on fixing the underlying issue.
To avoid this problem you can invoke Python with '-m pip' instead of running pip directly.
Looking in indexes: http://python.org/pypi/simple/
Collecting docker-compose
...
Successfully installed PyYAML-5.4.1 attrs-20.3.0 bcrypt-3.2.0 cached-property-1.5.2 certifi-2020.12.5 cffi-1.14.5 chardet-4.0.0 cryptography-3.4.6 distro-
1.5.0 docker-4.4.3 docker-compose-1.28.4 dockerpty-0.4.1 docopt-0.6.2 idna-2.10 importlib-metadata-3.6.0 jsonschema-3.2.0 paramiko-2.7.2 pycparser-
2.20 pynacl-1.4.0 pyrsistent-0.17.3 python-dotenv-0.15.0 requests-2.25.1 six-1.15.0 texttable-1.6.3 typing-extensions-3.7.4.3 urllib3-1.26.3 websocket-
client-0.57.0 zipp-3.4.0
```

7. 설치 완료!

```
$ pip list| grep docker
docker          4.4.3
docker-compose  1.28.4
dockerpty       0.4.1
```

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