

# pip? docker-compose ?? ??

## 1. 環境

- os : centos7
- pip : pip2 / pip3

## 2. 準備

- pip2をインストールし、python3用にリンクを作成する
- pipをpip2にリンクし、pip3をpip2にリンクする

```
$> 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. pipでdocker-composeをインストールする

```
$ 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/+f/2d3/2223e5b0ee029/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/
```

- `pip` `...`????

#### 4. `pip`

- `pip` `2` `3` `...` `...`
- `python` `2` `...` `python3` `...` `...`

#### 5. `pip`

```
$ 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
http://python.org/pypi/+f/0e8/6620d658c5ca8/setuptools-53.0.0-py3-none-any.whl
(784kB) 100% |████████████████████████████████████████| 788kB 58.3MB/s Collecting pip
Downloading http://python.org/pypi/+f/37f/d50e056e2aed6/pip-21.0.1-py3-none-any.whl
(1.5MB) 100% |████████████████████████████████████████| 1.5MB 36.2MB/s Installing collected
packages: setuptools, pip
```

#### 6. `docker-compose`

```
$ 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 dockertpy-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
pysistent-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. `!`

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

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Revision #1

Created 2022-06-07 14:33:04 KST by artop0420

Updated 2023-07-05 00:26:12 KST by artop0420