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Python 3.7 on CentOS 6

The latest Python 3.7 (https://www.python.org/downloads/release/python-370/) at last upped its version requirement for OpenSSL, though it sadly means that out of the box it cannot use the version of OpenSSL available with (the now rather old) CentOS 6. Sure, you can set up Python 3.7 without the ssl module, but you won't be able to install anything with pip since HTTPS is required for downloading modules.

Here's what I did. This is from a minimal install of CentOS 6.10, though it should work with older versions of CentOS 6. For my setup, I installed OpenSSL 1.1.0h under https://www.nc.nlm.numer.com/usr/local/python37. The trick is to use the rpath option for the linker (in GCC, that means <a href="https://www.numer.com/wispath="math-numer.com/wispath="math

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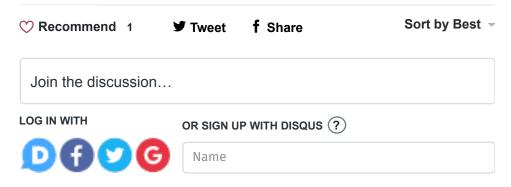
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```
# yum groupinstall -y 'Development Tools'
# curl -LO 'https://www.openssl.org/source/openssl-1.1.0h.tar.g
# tar -xf openssl-1.1.0h.tar.gz
# cd openssl-1.1.0h
# ./config shared --prefix=/usr/local/openss111 --openssldir=/u
sr/local/openssl11 && make && make install
# cd ..
# curl -LO 'https://www.python.org/ftp/python/3.7.0/Python-3.7.
0.tar.xz'
# tar -xf Python-3.7.0.tar.xz
# cd Python-3.7.0
In Modules/Setup.dist, edit the following, making sure you remo
ve the leading pound characters:
SSL=/usr/local/openssl11
ssl ssl.c \
        -DUSE SSL -I$(SSL)/include -I$(SSL)/include/openssl \
        -L$(SSL)/lib -lssl -lcrypto
# yum install -y libffi-devel bzip2-devel ncurses-devel gdbm-de
vel xz-devel sqlite-devel readline-devel zlib-devel libuuid-dev
el
# LDFLAGS="-W1,-rpath=/usr/local/openss111/lib" ./configure --p
refix=/usr/local/python37 --with-openssl=/usr/local/openssl11
--with-system-ffi && make && make install
# ln -s /usr/local/python37/bin/*3.7* /usr/local/bin
```

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Almog Cohen • a year ago

I've used your advice to update my dockerfiles to install python 3.7 with a fully automated process: https://gist.github.com /Alm...

You should be able to execute some of the commands without the "RUN" prefix to scriptly do what you have recommended doing manually

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kyleagronick • a year ago

Can't wait til we get some packages. This is such a pain.

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