

# Third Party Software: My program needs Python 3 in order to run. How do I install it?

Running

```
yum search cm-python3
```

(the prefix "cm-" is important) should turn up the Bright Cluster Manager Python 3 package for more recent Bright Cluster Manager software.

A yum install of the package will then place it.

The guide below is a guide for older versions of Bright, and is only useful as a kind of overview now.

( A version that worked with Bright Cluster Manager 6.1 is at <http://kb.brightcomputing.com/faq/index.php?action=artikel&cat=23&id=226> )

You can install Python 3.x in /cm/shared/apps and create an environment module file to select when you want to use it:

Step 1 - Download the source code:

```
- wget http://python.org/ftp/python/3.3.4/Python-3.3.4.tar.xz
```

Step 2 - Build Python:

- tar xf Python-3.3.4.tar.xz
- cd Python-3.3.4
- ./configure --prefix=/cm/shared/apps/python/3.3.4 --enable-shared
- make && make altinstall
- cd /cm/shared/apps/python/3.3.4/bin && ln -s python3.3 python

Step 3 - Create an environment module file:

- mkdir -p /cm/shared/modulefiles/python
- cd /cm/shared/modulefiles/python

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- Create a text file e.g. vim 3.3.4 with the following contents:

```
#%Module *- tcl *-  
##  
## modulefile  
##  
proc ModulesHelp { } {  
  
    puts stderr "\tAdds Python 3.3.4 to your environment variables,"  
}  
  
module-whatis "adds Adds Python 3.3.4 to your environment variables"  
  
set      root      /cm/shared/apps/python/3.3.4  
prepend-path PATH      $root/bin  
prepend-path LD_LIBRARY_PATH $root/lib:$root/lib64
```

Example: Installing a python module (snakemake):

```
module load python/3.3.4  
wget https://bitbucket.org/pypa/setuptools/raw/bootstrap/ez\_setup.py
```

```
python3.3 ez_setup.py  
curl https://raw.githubusercontent.com/pypa/pip/master/contrib/get-pip.py | python3.3 -
```

And install snakemake:

```
easy_install-3.3 snakemake  
Unique solution ID: #1197  
Author: Panos Labropoulos  
Last update: 2019-02-04 14:08
```