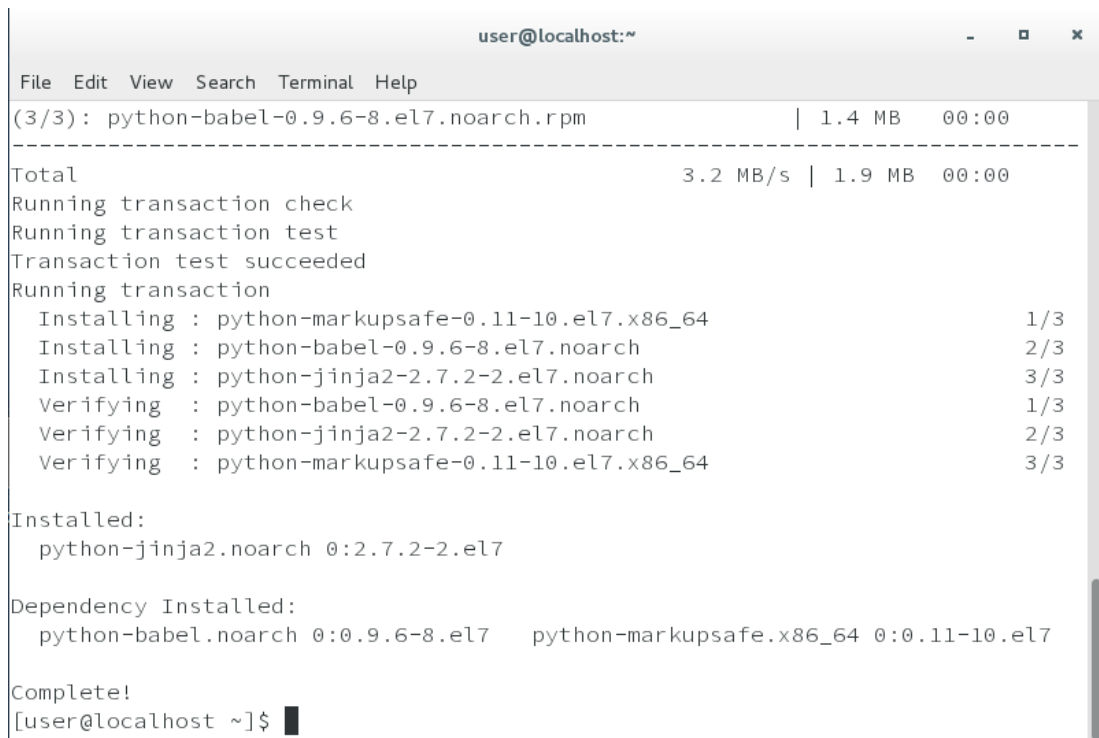


1. `yum update` 會更新所有已安裝的套件
`yum upgrade` 會將過時的一些套件也同時更新，通常用於版本更新
2. 可以加上 `--obsoletes` 這個 flag 來使 `update` 變得像 `upgrade`
3. `remove` 用來移除特定的套件
`autoremove` 用來移除一些沒有用的套件， 比如說系統經過一段時間的變動之後，可能會留下一些沒有用的套件，這時就可以使用 `autoremove` 來移除這些沒有用的套件。
4. 要把那個 `specific package mark` 成手動安裝，這樣他和他的屬性就不會被砍到。
`yum install <package>`
5. `yum search vim`
6. for example : `yum provides nfsstat`
7. `repoquery --tree-requires --recursive <package>`
8. `yum` 是非常方便的，可以去安裝 CentOS7 repo 的套件也可以安裝 PyPI 的套件，缺點是他需要有相對應的 rpm 包才可以安裝
用 `pip` 時你可以拿到套件最新的版本，或者也可以直接加上參數來安裝較為舊的版本
9. 首先是安裝



```
user@localhost:~  
File Edit View Search Terminal Help  
(3/3): python-babel-0.9.6-8.el7.noarch.rpm | 1.4 MB 00:00  
-----  
Total 3.2 MB/s | 1.9 MB 00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Installing : python-markupsafe-0.11-10.el7.x86_64 1/3  
Installing : python-babel-0.9.6-8.el7.noarch 2/3  
Installing : python-jinja2-2.7.2-2.el7.noarch 3/3  
Verifying : python-babel-0.9.6-8.el7.noarch 1/3  
Verifying : python-jinja2-2.7.2-2.el7.noarch 2/3  
Verifying : python-markupsafe-0.11-10.el7.x86_64 3/3  
  
Installed:  
python-jinja2.noarch 0:2.7.2-2.el7  
  
Dependency Installed:  
python-babel.noarch 0:0.9.6-8.el7 python-markupsafe.x86_64 0:0.11-10.el7  
  
Complete!  
[user@localhost ~]$
```

然後 `pip uninstall` 的時候是可以成功移除的

gem:

```
[user@localhost ~]$ sudo gem install wikicloth
Fetching: builder-3.2.3.gem (100%)
Successfully installed builder-3.2.3
Fetching: expression_parser-0.9.0.gem (100%)
Successfully installed expression_parser-0.9.0
Fetching: unf_ext-0.0.7.4.gem (100%)
Building native extensions. This could take a while...
ERROR:  Error installing wikicloth:
        ERROR: Failed to build gem native extension.

      /usr/bin/ruby extconf.rb
mkmf.rb can't find header files for ruby at /usr/share/include/ruby.h

Gem files will remain installed in /usr/local/share/gems/gems/unf_ext-0.0.7.4
for inspection.
Results logged to /usr/local/share/gems/gems/unf_ext-0.0.7.4/ext/unf_ext/gem_m
ake.out
[user@localhost ~]$ █
```

yum:

```
[user@localhost ~]$ sudo yum install rubygem-wikicloth
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: ftp.stu.edu.tw
 * epel: mirror01.idc.hinet.net
 * extras: ftp.stu.edu.tw
 * updates: ftp.stu.edu.tw
Resolving Dependencies
--> Running transaction check
---> Package rubygem-wikicloth.noarch 0:0.8.0-6.el7 will be installed
--> Processing Dependency: rubygem(expression_parser) for package: rubygem-wikicloth-0.8.0-6.el7.noarch
--> Processing Dependency: rubygem(builder) for package: rubygem-wikicloth-0.8.0-6.el7.noarch
--> Running transaction check
---> Package rubygem-builder.noarch 0:3.1.4-3.el7 will be installed
---> Package rubygem-expression_parser.noarch 0:0.9.0-6.el7 will be installed
--> Finished Dependency Resolution
```

```
-----
Total                                     115 kB/s | 54 kB  00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : rubygem-builder-3.1.4-3.el7.noarch                1/3
  Installing : rubygem-expression_parser-0.9.0-6.el7.noarch      2/3
  Installing : rubygem-wikicloth-0.8.0-6.el7.noarch              3/3
  Verifying  : rubygem-expression_parser-0.9.0-6.el7.noarch      1/3
  Verifying  : rubygem-builder-3.1.4-3.el7.noarch               2/3
  Verifying  : rubygem-wikicloth-0.8.0-6.el7.noarch             3/3

Installed:
  rubygem-wikicloth.noarch 0:0.8.0-6.el7

Dependency Installed:
  rubygem-builder.noarch 0:3.1.4-3.el7
  rubygem-expression_parser.noarch 0:0.9.0-6.el7

Complete!
[user@localhost ~]$ █
```

安裝位置比較

wikicloth : gem -> /home/user/.gem/ruby

yum -> /usr/share/gems/gems/

jinja2 : yum -> /usr/lib/python2.7/site-packages/jinja2/ 跟 /usr/share/doc

pip -> /usr/lib/python2.7/site-packages/

所以 jinja2 在先 pip uninstall 之後在 yum remove 會噴一堆 warning 是因為他們安裝的位置在相同地方，pip 先砍掉之後 yum 在試著去砍就噴了 warning 。