

Common package use cases for Apt and DNF systems

To see all installed packages:

For Apt systems, run:

```
$ dpkg -l
```

For DNF systems, run:

```
$ rpm -qa
```

To update all the packages on your system:

For Apt systems, run:

```
$ sudo apt update  
$ sudo apt upgrade
```

For DNF systems, run:

```
$ sudo dnf update
```

To install a given package (e.g. git):

For Apt systems, run:

```
$ sudo apt update  
$ sudo apt install git
```

For DNF systems, run:

```
$ sudo dnf install git
```

To remove a given package and dependencies (e.g. git):

For Apt systems, run:

```
$ sudo apt autoremove git
```

For DNF systems, run:

```
$ sudo dnf remove git
```

To find an installed package that provides a file (e.g. /usr/bin/ls):

For Apt systems, run:

```
$ dpkg -S /usr/bin/ls # Oops! Doesn't work!  
$ dpkg -S /bin/ls
```

For DNF systems, run:

```
$ rpm -qf /usr/bin/ls
```

Install package that provides file (e.g. /usr/bin/convert):

For Apt systems, run:

```
$ sudo apt install apt-file  
$ sudo apt-file update  
$ apt-file search -F /usr/bin/convert  
$ sudo apt install graphicsmagick-imagemagick-compat
```

For DNF systems, run:

```
$ sudo dnf install /usr/bin/convert
```

List files provided by installed package git:

For Apt systems, run:

```
$ dpkg -L git
```

For DNF systems, run:

```
$ rpm -ql git
```

Find any available package name by pattern:

For Apt systems, run:

```
$ sudo apt update  
$ apt list '*git*'
```

For DNF systems, run:

```
$ dnf repoquery '*git*'
```

See package install history:

For Apt systems, run:

```
$ grep "install" /var/log/apt/history.log  
$ zgrep "install" /var/log/apt/history.log.*.gz
```

For DNF systems, run:

```
$ dnf history
```

(For some more examples, google “archwiki pacman rosetta”.)