

Package Managers

YUM (Yellowdog Update Manager) & DNF

Both yum and DNF are found on RedHat based systems, and are pretty much interchangeable.

Cache & Repositories

Update cache

```
yum makecache
```

List enabled repositories

```
yum repolist
```

List all active repositories

```
yum repolist --all
```

Use specific repository:

```
yum --enablerepo="repoID" install packagename
```

Disable specific repository

```
yum --disablerepo="repoID" install packagename
```

Adding additional repositories

repositories are stored in `/etc/yum.repos.d/` (for both YUM and DNF)

Searching repositories for packages and package info

The below can be used to check whether a package is available in the currently configured repositories (requires the exact package name):

```
dnf list packagename
```

The below can be used to search repositories for a keyword relating to a package - ie a part of its name or description:

```
dnf search packagename
```

or

```
yum list available | grep -i packagename
```

Retrieve information about an available package:

```
dnf info packagename
```

Installing/Updating Packages

Install package

```
yum install packagename
```

or

```
dnf install packagename
```

remove package

```
yum remove packagename
```

or

```
dnf remove packagename
```

remove unused dependencies:

```
dnf autoremove
```

update packages

```
yum update
```

or

```
dnf update
```

update a specific package

```
yum update packagename
```

or

```
dnf update packagename
```

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APT (Advanced Package Tool) & DPKG (Debian Package)

APT is a package manager found primarily on Debian based systems.

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Cache & Repositories

Ubuntu apt uses a cache to store what can be installed/updated from repos. Before installing or updating software, it's worth checking that the cache has been recently updated to ensure that the most recent available packages are stored.

Update cache

```
apt update
```

Check when cache was last updated:

```
stat -c %z /var/lib/apt/periodic/update-success-stamp
```

Searching repositories

```
apt list packagename
```

or

```
apt search packagename
```

Adding repositories.

repositories are stored in `/etc/apt/sources.list` or `/etc/apt/sources.list.d`

Typically, you will need a key for apt to be able to use a repository. Keys will be available via the repository website.

Download the key file

Add the key to 'apt trusted keys'

```
apt-key add filename
```

Once added, create the repository file within `/etc/apt/sources.list.d` with a name of your choice.

Add the repository details, typically prefaced with 'deb' and then the repo URL, and then OS release version.

Installing & Updating Packages

Install packages

```
apt install packagename
```

Install multiple packages

```
apt install packagename packagename packagename
```

Removing packages

Remove package without removing configuration files

```
apt remove packagename
```

Remove package and configuration files

```
apt purge packagename
```

Remove package dependencies

```
apt autoremove
```

Updates

(remember to apt update before hand)

Check for updates

```
apt list --upgradable
```

Run all package updates

```
apt upgrade
```

Upgrade specific package

```
apt upgrade packagename
```

Update the OS and kernel:

```
apt dist-upgrade
```

Update everything (packages and kernel)

```
apt full-upgrade
```

```
=====
```

openSuse - zypper

Cache & Repositories

Zypper uses a cache to store what can be installed/updated from repos. Before installing or updating software, it's worth checking that the cache has been recently updated, and if it hasn't; running an update on the cache.

update cache

```
zypper ref
```

List repositories

```
zypper lr
```

Repositories are stored in `/etc/zypp/repos.d`

Installing/ Searching/ Updating Packages

Search packages

```
zypper se packagename
```

Search specifically

```
zypper se --match-words packagename
```

or

```
zypper se --match-exact packagename
```

Install package

```
zypper in packagename
```

Remove package (only option to remove package and configuration files)

```
zypper rm packagename
```

```
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```

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