Action Install a	Arch	Red Hat/Fedora	Debian/ Ubuntu	SLES/ openSUSE	Gentoo
package(s) by name Remove a package(s) by name	pacman -S	dnf install	apt install	zypper install zypper in	emerge [-a]
	pacman -Rs	dnf remove	apt remove	zypper remove zypper rm	emerge -C
Search for package(s) by searching the expression in name, description, short description. What exact fields are being searched by default varies in each tool. Mostly options bring tools on par.	pacman -Ss	dnf search	apt search	zypper search zypper se [-s]	emerge -S
Upgrade Packages - Install packages which have an older version already installed		dnf upgrade	apt update && apt upgrade	zypper update zypper up	emerge -u world

Upgrade Packages -Another form of the update command, which can perform more complex updates -- like distribution upgrades. When the usual update command will omit package updates, which include changes in dependencies, this command apt update && can perform apt distemerge -uDN world those updates. pacman -Syu dnf distro-sync upgrade zypper dup Clean up all local caches. Options might limit what is actually cleaned. Autoclean removes only unneeded, obsolete pacman -Sc apt autoclean

pacman -Scc

information.

dnf clean all

apt clean

eclean distfiles

zypper clean

Remove dependencies that are no longer needed, because e.g. the package which needed the pacman -Qdtq | dependencies emerge -was removed. pacman -Rs - dnf autoremove apt autoremove zypper rm -u depclean Remove packages no longer included packagepacman -Qmq | cleanup -in any aptitude purge pacman -Rs - orphans repositories. Mark a package previously installed as a dependency as explicitly apt-mark pacman -D -required. asexplicit dnf mark install manual emerge --select Install package(s) as dependency / without dnf install => marking as explicitly dnf mark pacman -S -asdeps required. remove apt-mark auto emerge -1 apt install --Only downloads the download-only given (into the package cache) package(s) without apt download (bypass the unpacking or zypper -emerge -installing them pacman -Sw dnf download package cache) download-only fetchonly

Start a shell to enter multiple commands in one session

ne session apt-config shell zypper shell

Show a log of

actions taken cat cat located in by the software /var/log/pacma dnf history og istory e

Get a dump of the whole system information -Prints, Saves or similar the current state of the package

management system. Preferred output is text or XML. (Note:

XML. (Note: Why either-or here? No tool offers the

option to (see (see

choose the /var/lib/pacman /var/lib/rpm/Pa

output format.) /local) ckages) apt-cache stats n/a emerge --info

e-mail delivery

of package apt install aptchanges listchanges