pkg_add install a package, and all required dependencies, i.e: `pkg_add -v firefox`

pkg_delete uninstall a package, i.e. to delete a package and all its useless dependencies: `pkg_delete -R firefox`

pkg_info display informations about a package, for example: `pkg_info firefox`

pkg_tarup create from installed packages in our LOCALBASE a .tgz binary package, for example: `pkg_tarup -a firefox`

src part

Available targets

clean delete the current package's WRKDIR

clean-depends delete all the WRKDIR of the current package's dependencies

deinstall delete a package, to delete the useless dependencies too: `make DEINSTALLDEPENDS=1 deinstall`

fetch fetch the *distfile* from repositories

fetch-list like *fetch* but fetch the dependencies too, you might use it in this way: `make fetch-list | sh`

help display a useful help about a pkgsrc topic, i.e. `make help topic=DEINSTALLDEPENDS`

install install the package and its dependencies into our LOCALBASE, i.e. `cd www/elinks && make install`

update update a package and dependencies

show-depends display all the dependencies of a package

show-var show a pkgsrc's variable, for example: `make show-var VARNAME=MAINTAINER`

Various tools

pkgclean like *clean*'s target but smarter

pkgfind tools useful to find packages, for example `pkgfind -C video`

Other operations

`shutdown(8)`

- To reboot a machine: `shutdown -r now`
- To shutdown a NetBSD machine you might use `shutdown(8)`, i.e. `shutdown -p 5 "Hurry up!"`

Kernel

- To obtain information about selected options in the kernel you might use `config(1)`, i.e.: `config -x /netbsd`
- To obtain or set kernel states you might use `sysctl(8)`, i.e.: `sysctl -w security.curtain=1`

Testing

- To run the automated tests: `cd /usr/tests && atf-run | atf-report`
- To configure the testing framework, edit the files in `/etc/atf`.

NetBSD reference card

The NetBSD community

Useful links

Official site: `http://www.netbsd.org/`

Man pages: `http://man.netbsd.org/`

Pkgsrc.se: `http://www.pkgsrc.se/`

ISO: `ftp://iso.netbsd.org/pub/NetBSD/iso/`

Binary packages: `ftp://ftp.NetBSD.org/pub/NetBSD/packages/current-packages/NetBSD/$(uname -p)/$(uname -r)/All`

NetBSD Wiki: `http://wiki.netbsd.org/`

Obtaining the sources

- To obtain the sources we should set various useful variables for `cvs(1)`: `CVS_RSH="ssh"` `CVSROOT="anoncvs@anoncvs.NetBSD.org:/cvsroot"` `export CVS_RSH CVSROOT`
- Now we choose a directory for the sources: `cd /usr`
- To obtain the sources (in this case the 6.1.4): `cvs co -r netbsd-6-1-4-RELEASE -P src`
- To obtain pkgsrc (i.e. the 2014Q2 release): `cvs co -r pkgsrc-2014Q2 -P pkgsrc`

Configuration and useful commands

Audio

- To record audio (i.e. with a microphone) you can use `audiorecord(1)`: `audiorecord -p mic myrec.wav`
- To play an audio file, recorded for example with `audiorecord(1)` you might use `audioplay(1)`: `audioplay myrec.wav`
- To turn up or down the volume you can use `mixerctl(1)`, the increment and decrement operators are supported: `mixerctl -w outputs.master++` For a list of all possible variables: `mixerctl -a`

Localization

- To set your favourite language and/or charset you might use export (or setenv on the `csh(1)`) and the valid variables, for example for the Italian language and UTF-8: `export LANG="it_IT.UTF-8"` `export LC_ALL="it_IT.UTF-8"`
- To print the current settings: `locale`
- To print all available settings you might use: `locale -a`

Managing users and groups

- To add a user: `useradd -m -s /bin/ksh -G wheel user` where `/bin/ksh` is a shell and wheel is a secondary group.
- To change some user's options, i.e add him/her to a group: `usermod -G group user`
- To delete a user: `userdel user`

Monitoring the system

- To monitor various informations of your NetBSD box you might use the `systat(1)` tool (which uses `curses(3)`): `systat all` When you're on systat you can move on another displays with `:display`, i.e. `:ps` or `:net`, for a list of all the available displays: `:help`
- With `envstat(4)` you might obtain the sensor(s) informations, for example: `envstat -i 2`
- To obtain the pid of a process you might use `pgrep(1)`: `pgrep envstat`
- To *kill* a process without knowing its pid you might use: `pkill gimp`
- To change the priority of a process you can use `renice(8)`: `prenice 6 vi`

rc.d

rc.conf The synopsis of `rc.conf` file is: `daemon|option=yes|no|value`

auto_ifconfig automatically starts the network interfaces (please see ifconfig_if) *(boolean)*

defaultroute set the default gateway, i.e. `defaultroute=192.168.1.1`

dhclient configure the network using DHCP (auto_ifconfig and ifconfig_if not needed) *(boolean)*

hostname set the hostname, i.e. `hostname=foobar`

ifconfig_if assigns an IP or other on that network interface, i.e. `ifconfig_rtk0="inet 192.168.1.4"`

mixerctl automatically starts the mixerctl configuration *(boolean)*

postfix starts Postfix *(boolean)*

sshd starts the OpenSSH server *(boolean)*

Start and stop services and other operations

- To start a service only one time, i.e. the sshd daemon: `/etc/rc.d/sshd onestart`
- To stop a service (for example sshd): `/etc/rc.d/sshd stop`
- To restart a service (for example network): `/etc/rc.d/network restart`

wscons

- To set the keyboard's layout, i.e. the Dvorak's layout: `wsconsctl -w encoding=us.dvorak`
- To turn off the pc speaker: `wsconsctl -w bell.volume=0`
- To see all available variables: `wsconsctl -a`, and display's options: `wsconsctl -ad`

Pkgsrc

mk.conf

The `mk.conf` synopsis is: `option = values` or for concatenating values: `option += values`. Put a `-` as a prefix if you'd like to disable a option.

ACCEPTABLE_LICENSES not free software or OSI licenses that we accept, i.e.: `ACCEPTABLE_LICENSES += vim-license`

CFLAGS flag passed to the compiler, i.e `CFLAGS += -march=pentium-m`

FAILOVER_FETCH if the distfile's checksum doesn't match, download again the distfile, `FAILOVER_FETCH = yes`

FETCH_CMD tool to use on the *fetch* phase, i.e.: `FETCH_CMD = curl`

PKG_DEFAULT_OPTIONS options used by all packages, for example: `PKG_DEFAULT_OPTIONS += mmx -nas`

PKG_OPTIONS.package options used by a package, for example in the www/elinks case: `PKG_OPTIONS.elinks += nntp`

X11_TYPE option useful to set the X11 type, for modular X.org: `X11_TYPE = modular`

pkg part

pkg_admin audit show all the vulnerabilities of installed packages

pkg_admin fetch-pkg-vulnerabilities download the vulnerability list