NAME

pkg, pkg-static - manipulate packages

SYNOPSIS

DESCRIPTION

pkg provides an interface for manipulating packages: registering, adding, removing and upgrading packages. **pkg-static** is a statically linked variant of **pkg** typically only used for the initial installation of **pkg**. There are some differences in functionality. See pkg.conf(5) for details.

OPTIONS

The following options are supported by **pkg**:

-v, --version

Display the current version of pkg.

-d, --debug

Show debug information.

-l. --list

List all the available command names, and exit without performing any other action. The -v option takes precedence over -l but -l will override any other command line arguments.

-o <option=value>, --option <option=value>

Set configuration option for **pkg** from the command line. Options that are set from the environment are redefined. It is permitted to specify this option multiple times.

-N Activation status check mode. Prevent **pkg** from automatically creating or initializing the SQLite database in /var/db/pkg/local.sqlite if it does not already exist.

Prevent **pkg** from performing any actions if no packages are currently installed, on the basis that a correctly initialised system using **pkg** will always have at least the **pkg** package itself registered.

If used without any other arguments, **pkg -N** will run the sanity tests and if successful print out a short message showing how many packages are currently installed. The exit status should be a reliable indication of whether a system is configured to use **pkg** as its package management system or not.

Example usage:

```
if pkg -N >/dev/null 2>&1; then
# pkgng-specifics
else
# pkg_install-specifics
fi
```

The -N flag was first released in the /usr/sbin/pkg bootstrapper in FreeBSD 8.4, but was missing from FreeBSD 9.1. It may not be enough to just call **pkg** -N, as the bootstrapper may be invoked, or an error returned from **pkg**. The following script is the safest way to detect if **pkg** is installed and activated:

```
if TMPDIR=/dev/null ASSUME_ALWAYS_YES=yes \
    PACKAGESITE=file:///nonexistent \
    pkg info -x 'pkg(-devel)?$' >/dev/null 2>&1; then
# pkgng-specifics
else
# pkg_install-specifics
fi
```

-j <jail name or id>, --jail <jail name or id>

pkg will execute in the given <jail name or id>, where *name* matches "**jls** *name*" and *id* matches "**jls** *jid*". See jail(8) and jls(8).

- -c <chroot path>, --chroot <chroot path>
 pkg will chroot in the <chroot path> environment.
- -r <root directory>, --rootdir <root directory>
 pkg will install all packages within the specified <root directory>.
- -C <configuration file>, --config <configuration file> pkg will use the specified file as a configuration file.
- -R <repo conf dir>, --repo-conf-dir <repo conf dir>

pkg will search the directory for per-repository configuration files. This overrides any value of REPOS_DIR specified in the main configuration file.

- **-4 pkg** will use IPv4 for fetching repository and packages.
- **-6 pkg** will use IPv6 for fetching repository and packages.

COMMANDS

The following commands (or their unambiguous abbreviations) are supported by **pkg**:

help command

Display usage information of the specified command.

add Install a package from either a local source or a remote one.

When installing from remote source you need to specify the protocol to use when fetching the package.

Currently supported protocols are FTP, HTTP and HTTPS.

annotate

Add, modify or delete tag-value style annotations on packages.

alias List the command line aliases.

audit Audit installed packages against known vulnerabilities.

autoremove

Delete packages which were automatically installed as dependencies and are not required any more.

bootstrap

This is for compatibility with the pkg(7) bootstrapper. If **pkg** is already installed, nothing is done.

If invoked with the **-f** flag an attempt will be made to reinstall **pkg** from remote repository.

check Sanity checks installed packages.

clean Clean the local cache of fetched remote packages.

create Create a package.

delete Delete a package from the database and the system.

fetch Fetch packages from a remote repository.

info Display information about installed packages and package files.

install Install a package from a remote package repository. If a package is found in more than one remote repository, then installation happens from the first one. Downloading a package is tried from each package repository in turn, until the package is successfully fetched.

lock Prevent modification or deletion of a package.

plugins

List the available plugins.

query Query information about installed packages and package files.

register

Register a package in the database.

repo Create a local package repository for remote usage.

rquery

Query information for remote repositories.

search

Search for the given pattern in the remote package repositories.

set Modify information in the installed database.

shell Open a SQLite shell to the local or remote database. Extreme care should be taken when using this command.

shlib Displays which packages link to a specific shared library.

stats Display package database statistics.

unlock

Unlocks packages, allowing them to be modified or deleted.

update

Update the available remote repositories as listed in pkg.conf(5).

updating

Display UPDATING entries of installed packages.

upgrade

Upgrade a package to a newer version.

version

Summarize installed versions of packages.

which Query the database for package(s) that installed a specific file.

ENVIRONMENT

All configuration options from pkg.conf(5) can be passed as environment variables.

Extra environment variables are:

INSTALL_AS_USER Allow all manipulation to be done as a regular user instead of checking for root credentials when appropriate.

It is expected that the user will ensure that every file and directory manipulated by **pkg** are readable (or writable where appropriate) by the user.

FILES

See pkg.conf(5).

EXAMPLES

Search for a package:

\$ pkg search perl

Install a package:

Installing must specify a unique origin or version otherwise it will try installing all matches.

% pkg install perl-5.14

List installed packages:

\$ pkg info

Upgrade from remote repository:

% pkg upgrade

Change the origin for an installed package:

%~pkg~set~-o~lang/perl5.12:lang/perl5.14

% pkg install -Rf lang/perl5.14

List non-automatic packages:

pkg query -e' %a = 0' %o

List automatic packages:

pkg query -e'%a = 1'%o

Delete an installed package:

% pkg delete perl-5.14

Remove unneeded dependencies:

% pkg autoremove

Change a package from automatic to non-automatic, which will prevent autoremove from removing it:

% pkg set -A 0 perl-5.14

Change a package from non-automatic to automatic, which will make **autoremove** allow it be removed once nothing depends on it:

% pkg set -A 1 perl-5.14

Create package file from an installed package:

% pkg create -o /usr/ports/packages/All perl-5.14

Determine which package installed a file:

\$ pkg which /usr/local/bin/perl

Audit installed packages for security advisories:

\$ pkg audit

Check installed packages for checksum mismatches:

pkg check -s -a

Check for missing dependencies:

pkg check -d -a

Show the pkg-message of a package:

pkg info -D perl-5.14

Restore a backup database:

% rm /var/db/pkg/local.sqlite

% xzcat /var/backups/pkg.sql.xz | pkg shell

SEE ALSO

pkg_create(3), pkg_printf(3), pkg_repos(3), pkg-keywords(5), pkg-lua-script(5), pkg-repository(5), pkg-script(5), pkg-triggers(5), pkg.conf(5), pkg-add(8), pkg-alias(8), pkg-annotate(8), pkg-audit(8), pkg-autoremove(8), pkg-check(8), pkg-clean(8), pkg-config(8), pkg-create(8), pkg-delete(8), pkg-fetch(8), pkg-info(8), pkg-install(8), pkg-lock(8), pkg-query(8), pkg-register(8), pkg-repo(8), pkg-rquery(8), pkg-search(8), pkg-set(8), pkg-shlib(8), pkg-shlib(8), pkg-ssh(8), pkg-stats(8), pkg-triggers(8), pkg-update(8), pkg-updating(8), pkg-upgrade(8), pkg-version(8), pkg-which(8)

To build your own package set for one or multiple servers see poudriere(8) (**ports**/ports-mgmt/poudriere).

FreeBSD pkg mirror: https://pkg.freebsd.org

Your closest pkg mirror based on MaxMind GeoLite geo-DNS.

HISTORY

The **pkg** command first appeared in FreeBSD 9.1.

AUTHORS AND CONTRIBUTORS

BUGS

See the issue tracker at https://github.com/freebsd/pkg/issues.

Please direct questions and issues to the pkg@FreeBSD.org mailing list.