

NAME

apk - Alpine Package Keeper

SYNOPSIS

apk [*<options>...*] *command* [*<arguments>...*]

DESCRIPTION

apk manages packages installed on the system. The set of top level constraints on system packages is called the *world* (see [apk-world\(5\)](#)).
apk supports various sub-commands to query and manipulate *world* and package repositories. By default apk is non-interactive. See **FILES** or **–interactive** on changing this default to be interactive.

COMMANDS

Each command is documented in detail on its manual page.

PACKAGE INSTALLATION AND REMOVAL

apk-add(8)	Add packages to <i>world</i> and commit changes
apk-del(8)	Remove packages from <i>world</i> and commit changes

SYSTEM MAINTENANCE

apk-fix(8)	Fix, reinstall or upgrade packages without modifying <i>world</i>
apk-update(8)	Update repository indexes
apk-upgrade(8)	Install upgrades available from repositories
apk-cache(8)	Manage the local package cache

QUERYING PACKAGE INFORMATION

apk-info(8)	Give detailed information about packages or repositories
apk-list(8)	List packages matching a pattern or other criteria
apk-dot(8)	Render dependencies as graphviz graphs
apk-policy(8)	Show repository policy for packages
apk-search(8)	Search for packages by name or description

REPOSITORY MAINTENANCE

apk-index(8)	Create repository index file from packages
apk-fetch(8)	Download packages from repositories to a local directory
apk-manifest(8)	Show checksums of package contents
apk-verify(8)	Verify package integrity and signature

MISCELLANEOUS

apk-audit(8)	Audit system for changes
apk-stats(8)	Show statistics about repositories and installations
apk-version(8)	Compare package versions or perform tests on version strings

GLOBAL OPTIONS

The following options are available for all commands.

-f, --force
Enable selected **–force-*** options (deprecated).

-i, --interactive
Ask confirmation before performing certain operations. Interactive mode can be made the default when running on a tty, by creating `/etc/apk/interactive` as an empty file.

-p, --root *ROOT*
Manage file system at *ROOT*.

-q, --quiet
Print less information.

-U, --update-cache
Alias for **–cache-max-age 1**.

-v, --verbose
Print more information (can be specified twice).

-V, --version
Print program version and exit.

-X, --repository *REPO*
Specify additional package repository. This option can be specified multiple times.

–allow-untrusted
Install packages with untrusted signature or no signature.

–arch *ARCH*
Temporarily override architecture. When used with **–root** the architecture will be saved.

–cache-dir *CACHEDIR*
Temporarily override the cache directory. *CACHEDIR* is treated relative to the *ROOT*.

–cache-max-age *AGE*
Maximum AGE (in minutes) for index in cache before it's refreshed.

–force-binary-stdout
Continue even if binary data will be printed to the terminal.

–force-broken-world
DANGEROUS: Delete world constraints until a solution without conflicts is found. This does not allow installation of packages with unsatisfiable dependencies and is mainly intended to be used in `initramfs` boot and is implied by **–initramfs-diskless-boot**. The primary purpose is to allow run-from-tmpfs systems to boot if media was upgraded and some packages are no longer available in the new release.
APK will try to determine the world constraints that causes packages with conflicting dependencies and start disabling the world constraints in this order until a satisfiable set of constraints is left. Using this switch on hard disk installation will likely result in unexpected removal of some packages. If uncertain, use with **–interactive** or **–simulate** first.

–force-missing-repositories
Continue even if some of the repository indexes are not available.

–force-non-repository
Continue even if packages may be lost on reboot. This can happen when running in run-from-tmpfs mode, and installing non-repository package.

–force-old-apk
Continue even if packages use unsupported features.

–force-overwrite
Overwrite files in other packages.

–force-refresh
Do not use cached files (local or from proxy).

–keys-dir *KEYSDIR*
Override directory of trusted keys. This is treated relative to *ROOT*.

–no-cache
Do not use any local cache path.

–no-check-certificate
Do not validate the HTTPS server certificates.

–no-interactive
Disable interactive mode.

–no-network
Do not use the network. The cache is still used when possible.

–no-progress
Disable progress bar even for TTys.

–print-arch
Print default arch and exit.

–progress
Show progress.

–progress-fd *FD*
Write progress to the specified file descriptor.

–purge
Purge modified configuration and cached packages. Enables deletion of modified configuration files on package removal. On cache clean action this enables deletion of unneeded cached packages (uninstalled packages on tmpfs installations or all packages on disk installations).

–repositories-file *REPOFILE*
Override system repositories, see [apk-repositories\(8\)](#). Specifying this option overrides the normal repositories file and repositories.d directory processing. The given *REPOFILE* is relative to the startup directory since apk 2.12.0_rc2.

–timeout *TIME*
Timeout network connections if no progress is made in *TIME* seconds. The default is 60 seconds.

–wait *TIME*
Wait for *TIME* seconds to get an exclusive repository lock before failing.

COMMIT OPTIONS

The following options are available for all commands which commit the database.

-s, --simulate
Simulate the requested operation without making any changes. The database is opened in read only mode, and auto-updating of indexes is disabled. You may want to run "apk update" before running a simulation to make sure it is done with up-to-date repository indexes.

–clean-protected
Do not create .apk-new files in configuration directories.

–overlay-from-stdin
Read list of overlay files from stdin. Normally this is used only during initramfs when booting run-from-tmpfs installation.

–no-scripts
Do not execute any scripts. Useful for extracting a system image for different architecture on alternative *ROOT*.

–no-commit-hooks
Skip pre/post hook scripts (but not other scripts).

–initramfs-diskless-boot
Used by initramfs when it's recreating root tmpfs. This enables selected force options to minimize failure, and disables commit hooks, among other features.

SOURCE OPTIONS

The following options are available for all commands which operate on the package indexes only.

–from *FROMSPEC*
Search packages from: **system** (all system sources), **repositories** (exclude installed database), **installed** (exclude normal repositories) or **none** (commandline repositories only).

ENVIRONMENT

LANG
Used to determine if UTF-8 is supported, and set the default progress character accordingly.

SOURCE_DATE_EPOCH
See [apk-index\(8\)](#).

TERM
Used to determine if the terminal is dumb or not. Progress bar is not enabled on dumb terminals by default.

Variables to configure built-in libfetch

FETCH_BIND_ADDRESS
A local IP address to which libfetch will bind all sockets it creates. Can be useful for source routing.

FTP_PROXY, ftp_proxy
If set, these variables should contain the proxy URL for **ftp** connections.

NETRC
Specify the **.netrc** file to read for authentication secrets. If not set, defaults to **\$HOME/.netrc**.

HTTP_AUTH
HTTP_REFERER
HTTP_USER_AGENT
Specify a custom HTTP level **Authorization**, **Referer** or **User-Agent** header.

HTTP_PROXY, http_proxy
HTTPS_PROXY, https_proxy
If set, these variables should contain the proxy URL for **http** and **https** connections respectively.

HTTP_PROXY_AUTH
Specify a HTTP **Proxy-Authorization** header. Used only if the connection is established through a configured HTTP proxy.

NO_PROXY, no_proxy
Comma-separated list of domain extensions or CIDR notation IP addresses to which a proxy should *not* be used for. This is used explicitly to test the URL hostname portion only. That is, specifying an IP address or CIDR block will not match a DNS name that resolves to the IP address.

SSL_CLIENT_CERT_FILE
SSL_CLIENT_KEY_FILE
Override default SSL client certificate and corresponding private key filename.

SSL_NO_VERIFY_HOSTNAME
If set to anything, disables the server certificate name verification.

FILES

Configuration files

/etc/apk/arch
The CPU architecture for this database. See [apk-package\(5\)](#) section on package metadata field **arch** for the list.

/etc/apk/cache
This is expected to be a symlink to directory what apk will use as package cache. See also [apk-cache\(5\)](#) and [apk-cache\(8\)](#).

/etc/apk/commit_hooks.d/*pre-commit
/etc/apk/commit_hooks.d/*post-commit
Hook scripts which are executed before or after changes to database are committed. If a pre-commit script returns failure, the commit is aborted.
If **–no-scripts** or **–no-commit-hooks** option is specified, these hook scripts are not executed.

/etc/apk/interactive
If this file exists and apk is running on a tty, **–interactive** mode is enabled by default.

/etc/apk/keys
A directory containing trusted signing keys for apk.

/etc/apk/protected_paths.d/*.list
Configuration files to specify how to treat changes to specified directory or file masks.

/etc/apk/repositories
/etc/apk/repositories.d/*.list
Configuration files to specify repositories. See [apk-repositories\(5\)](#) for details.

/etc/apk/world
Top level requirements and constraints on what should be installed. See [apk-world\(5\)](#) for details.

Configuration files for built-in libfetch

/etc/apk/ca.pem
CA certificate store bundle for verifying server certificates. If not present, the default system CA store is used.

/etc/apk/crl.pem
CRL store to check the server certificates against.

/etc/apk/cert.key
Client certificate private key.

/etc/apk/cert.pem
Client certificate to use for authentication.

System files

/lib/apk/db/lock
A lock file used to allow only one concurrent write transaction on the system.

/lib/apk/db/installed
Database of installed packages and their contents.

/lib/apk/db/scripts.tar
Collection of all package scripts from currently installed packages.

/lib/apk/db/triggers
List of triggers rules for currently installed packages.

/lib/apk/exec
Temporary directory for extraction and execution of package scripts and triggers.

NOTES

This apk has coffee making abilities.