



## **Installing Software with apt, git**



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# Installing Software

## **apt command –**

apt provides a high-level command line interface for the package management system.

**\$ apt update -> to update the package.**

Or

**\$ sudo apt update**

[sudo] password for kali:

Get:1 http://kali.download/kali kali-rolling InRelease [30.6 kB]

Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [18.3 MB]

Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [42.4 MB]

Get:4 http://kali.download/kali kali-rolling/contrib amd64 Packages [106 kB]

Get:5 http://kali.download/kali kali-rolling/contrib amd64 Contents (deb) [157 kB]

Get:6 http://kali.download/kali kali-rolling/non-free amd64 Packages [221 kB]

Get:7 http://kali.download/kali kali-rolling/non-free amd64 Contents (deb) [944 kB]

Fetched 62.2 MB in 10s (5,928 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

1630 packages can be upgraded. Run 'apt list --upgradable' to see them.

**\$ sudo apt list --upgradable -> to update all the applications and software/package in the linux**

Listing... Done

acl/kali-rolling 2.3.1-1 amd64 [upgradable from: 2.2.53-10]

adduser/kali-rolling 3.123 all [upgradable from: 3.118]

adwaita-icon-theme/kali-rolling 43~beta.1-2 all [upgradable from: 40.1.1-2]

..

..

...

....

**\$ apt upgrade -> before installing any package run this command.**

**To check if the package is installed or not, use WHICH command**

\$ which metaflac

/usr/bin/metaflac

**To find the package/software in the package management system. If not installed.**

\$ apt search pdftk

Sorting... Done

Full Text Search... Done

csvkit/kali-rolling 1.0.7-1 all

command-line tools for working with CSV

csvkit-doc/kali-rolling 1.0.7-1 all

documentation for csvkit

pdftk/kali-rolling 2.02-5+b1 amd64

transitional package for pdftk, a tool for manipulating PDF documents

pdftk-java/kali-rolling 3.3.2-1 all

pdftk port to java - a tool for manipulating PDF documents

python3-csvkit/kali-rolling 1.0.7-1 all

public modules for csvkit (Python 3)

**To show information about the package**

\$ apt show pdftk

Package: pdftk

Version: 2.02-5+b1

Priority: optional

Section: text

Source: pdftk (2.02-5)

Maintainer: Johann Felix Soden <johfel@debian.org>

Installed-Size: 28.7 kB

Depends: pdftk-java

Homepage: <https://www.pdflabs.com/tools/pdftk-the-pdf-toolkit/>

Tag: implemented-in::c++, implemented-in::java, interface::commandline,

role::program, scope::utility, use::converting, use::editing,

works-with-format::pdf, works-with::text

Download-Size: 16.7 kB

## **To install the package use install command**

```
$ sudo apt install pdftk
```

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following packages were automatically installed and are no longer required:

fastjar gcc-11-base jarwrapper

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

## **To check again whether it is installed or not.**

```
$ which pdftk
```

/usr/bin/pdftk

## **To remove/uninstall the package, use remove command.**

```
$ sudo apt remove pdftk
```

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

.....

Removing pdftk (2.02-5+b1) ...

## **If some files still in the system even after removing the package.**

```
$ sudo apt purge pdftk
```

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Package 'pdftk' is not installed, so not removed

The following packages were automatically installed and are no longer required:

fastjar gcc-11-base jarwrapper libapache-pom-java libbcprov-java libcommons-lang3-java libcommons-parent-java pdftk-java

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 1630 not upgraded.

\$ apt autoremove

## **Manually install software.**

If we want to install a package whose pre requisite packages are not installed, so use below command.

**\$apt install** build-essential automake checkinstall libz-dev libssl-dev libcurl4-gnutls-dev libexpat1-dev gettext cmake gcc curl

**Want to install a package which is not available in the package system or want to do from internet.**

**\$ which git** -> to check whether git is already installed or not.

**Use wget command to hit the url directly, without opening it in browser.**

\$cd Downloads

**\$wget** <https://mirrors.edge.kernel.org/pub/software/scm/git/git-2.29.3.tar.gz>

**unzip the downloaded tar file with below command**

\$tar xzf git-2.29.3.tar.gz

\$ls

\$cd git-2.29.3/

**check install help file.**

\$less INSTALL

**create a configure file, it will create make file**

\$./configure

**Launch make file, make utility uses makefile to install the git.**

\$make

\$sudo make install

**check git version after installing it.**

`git --version`