

devesh@Dev: ~

X + v

— □ X

```
devesh@Dev:~$ sudo apt-get install vim
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
vim is already the newest version (2:8.2.3995-1ubuntu2.5).
```

```
vim set to manually installed.
```

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

```
libblas3 liblinear4 liblua5.3-0 lua-lpeg nmap-common
```

```
Use 'sudo apt autoremove' to remove them.
```

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

```
devesh@Dev:~$ sudo apt-get install nginx
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

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

```
libblas3 liblinear4 liblua5.3-0 lua-lpeg nmap-common
```

```
Use 'sudo apt autoremove' to remove them.
```

```
The following additional packages will be installed:
```

```
libgd3 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
```

```
libnginx-mod-stream-geoip2 libxpm4 libxslt1.1 nginx-common nginx-core
```

```
Suggested packages:
```

```
libgd-tools fcgiwrap nginx-doc ssl-cert
```

```
The following NEW packages will be installed:
```

```
libgd3 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
```

```
libnginx-mod-stream-geoip2 libxpm4 libxslt1.1 nginx nginx-common nginx-core
```

```
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
```

```
Need to get 1026 kB of archives.
```

```
After this operation, 3469 kB of additional disk space will be used.
```

devesh@Dev: ~

X + v

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Do you want to continue? [Y/n] Y

Get:1 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libxpm4 amd64 1:3.5.12-1ubuntu0.22.04.1 [36.4 kB]

Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgd3 amd64 2.3.0-2ubuntu2 [129 kB]

Get:3 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 nginx-common all 1.18.0-6ubuntu14.3 [40.0 kB]

Get:4 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod-http-geoip2 amd64 1.18.0-6ubuntu14.3 [11.9 kB]

Get:5 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod-http-image-filter amd64 1.18.0-6ubuntu14.3 [15.4 kB]

Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libxslt1.1 amd64 1.1.34-4ubuntu0.22.04.1 [164 kB]

Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod-http-xslt-filter amd64 1.18.0-6ubuntu14.3 [13.7 kB]

Get:8 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod-mail amd64 1.18.0-6ubuntu14.3 [45.7 kB]

Get:9 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod-stream amd64 1.18.0-6ubuntu14.3 [72.8 kB]

Get:10 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libnginx-mod-stream-geoip2 amd64 1.18.0-6ubuntu14.3 [10.1 kB]

Get:11 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 nginx-core amd64 1.18.0-6ubuntu14.3 [482 kB]

Get:12 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 nginx amd64 1.18.0-6ubuntu14.3 [3882 B]

Fetched 1026 kB in 5s (223 kB/s)

Preconfiguring packages ...

Selecting previously unselected package libxpm4:amd64.

(Reading database ... 26400 files and directories currently installed.)

Preparing to unpack .../00-libxpm4_1%3a3.5.12-1ubuntu0.22.04.1_amd64.deb ...

Unpacking libxpm4:amd64 (1:3.5.12-1ubuntu0.22.04.1) ...

Selecting previously unselected package libgd3:amd64.

Preparing to unpack .../01-libgd3_2.3.0-2ubuntu2_amd64.deb ...

Unpacking libgd3:amd64 (2.3.0-2ubuntu2) ...

Selecting previously unselected package nginx-common.

Preparing to unpack .../02-nginx-common_1.18.0-6ubuntu14.3_all.deb ...

Unpacking nginx-common (1.18.0-6ubuntu14.3) ...

Selecting previously unselected package libnginx-mod-http-geoip2.

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Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd/system/nginx.service.

Setting up libgd3:amd64 (2.3.0-2ubuntu2) ...

Setting up libxslt1.1:amd64 (1.1.34-4ubuntu0.22.04.1) ...

Setting up libnginx-mod-http-geoip2 (1.18.0-6ubuntu14.3) ...

Setting up libnginx-mod-mail (1.18.0-6ubuntu14.3) ...

Setting up libnginx-mod-http-image-filter (1.18.0-6ubuntu14.3) ...

Setting up libnginx-mod-stream (1.18.0-6ubuntu14.3) ...

Setting up libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.3) ...

Setting up libnginx-mod-stream-geoip2 (1.18.0-6ubuntu14.3) ...

Setting up nginx-core (1.18.0-6ubuntu14.3) ...

invoke-rc.d: could not determine current runlevel

Setting up nginx (1.18.0-6ubuntu14.3) ...

Processing triggers for ufw (0.36.1-4build1) ...

Processing triggers for man-db (2.10.2-1) ...

Processing triggers for libc-bin (2.35-0ubuntu3.1) ...

devesh@Dev:~\$ sudo apt-get install httpd

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Package httpd is a virtual package provided by:

nginx-light 1.18.0-6ubuntu14.3

nginx-full 1.18.0-6ubuntu14.3

nginx-extras 1.18.0-6ubuntu14.3

lighttpd 1.4.63-1ubuntu3.1

nginx-core 1.18.0-6ubuntu14.3

apache2 2.4.52-1ubuntu4.4

yaws 2.1.1+dfsg-1

webfs 1.21+ds1-12

tntnet 2.2.1-4build2

mini-httpd 1.30-2build1

devesh@Dev: ~



```
devesh@Dev:~$ sudo apt-get update
```

```
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
```

```
Hit:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
```

```
Hit:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
```

```
Hit:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
```

```
Reading package lists... Done
```

```
devesh@Dev:~$ sudo apt-get upgrade
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
Calculating upgrade... Done
```

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

```
  libblas3 liblinear4 liblua5.3-0 lua-lpeg nmap-common
```

```
Use 'sudo apt autoremove' to remove them.
```

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

```
devesh@Dev:~$ sudo apt-get install nmap
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
Suggested packages:
```

```
  ncat ndiff zenmap
```

```
The following NEW packages will be installed:
```

```
  nmap
```

```
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
```

```
Need to get 0 B/1731 kB of archives.
```

```
After this operation, 4341 kB of additional disk space will be used.
```

```
Selecting previously unselected package nmap.
```

```
(Reading database ... 26515 files and directories currently installed.)
```

```
Preparing to unpack .../nmap_7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1_amd64.deb ...
```

```
Unpacking nmap (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
```

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```
devesh@Dev:~$ sudo apt-get install nmap
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
Suggested packages:
```

```
ncat ndiff zenmap
```

```
The following NEW packages will be installed:
```

```
nmap
```

```
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
```

```
Need to get 0 B/1731 kB of archives.
```

```
After this operation, 4341 kB of additional disk space will be used.
```

```
Selecting previously unselected package nmap.
```

```
(Reading database ... 26515 files and directories currently installed.)
```

```
Preparing to unpack .../nmap_7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1_amd64.deb ...
```

```
Unpacking nmap (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
```

```
Setting up nmap (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
```

```
Processing triggers for man-db (2.10.2-1) ...
```

```
devesh@Dev:~$ sudo apt-get remove nmap
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

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

```
libblas3 liblinear4 liblua5.3-0 lua-lpeg nmap-common
```

```
Use 'sudo apt autoremove' to remove them.
```

```
The following packages will be REMOVED:
```

```
nmap
```

```
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
```

```
After this operation, 4341 kB disk space will be freed.
```

```
Do you want to continue? [Y/n] Y
```

```
(Reading database ... 26542 files and directories currently installed.)
```

devesh@Dev: ~



```
devesh@Dev:~$ sudo apt-get remove nmap
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

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

```
  libblas3 liblinear4 liblua5.3-0 lua-lpeg nmap-common
```

```
Use 'sudo apt autoremove' to remove them.
```

```
The following packages will be REMOVED:
```

```
  nmap
```

```
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
```

```
After this operation, 4341 kB disk space will be freed.
```

```
Do you want to continue? [Y/n] Y
```

```
(Reading database ... 26542 files and directories currently installed.)
```

```
Removing nmap (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
```

```
Processing triggers for man-db (2.10.2-1) ...
```

```
devesh@Dev:~$ sudo apt-get autoremove
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
The following packages will be REMOVED:
```

```
  libblas3 liblinear4 liblua5.3-0 lua-lpeg nmap-common
```

```
0 upgraded, 0 newly installed, 5 to remove and 0 not upgraded.
```

```
After this operation, 22.5 MB disk space will be freed.
```

```
Do you want to continue? [Y/n] Y
```

```
(Reading database ... 26515 files and directories currently installed.)
```

```
Removing liblinear4:amd64 (2.3.0+dfsg-5) ...
```

```
Removing libblas3:amd64 (3.10.0-2ubuntu1) ...
```

```
Removing liblua5.3-0:amd64 (5.3.6-1build1) ...
```

```
Removing lua-lpeg:amd64 (1.0.2-1) ...
```

```
Removing nmap-common (7.91+dfsg1+really7.80+dfsg1-2ubuntu0.1) ...
```

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```
devesh@Dev:~$ apt list | more
```

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Listing...

```
0ad-data-common/jammy 0.0.25b-1 all
0ad-data/jammy 0.0.25b-1 all
0ad/jammy 0.0.25b-2 amd64
0install-core/jammy 2.16-2 amd64
0install/jammy 2.16-2 amd64
0xffff/jammy 0.9-1 amd64
loom/jammy 1.0-2 amd64
2048-qt/jammy 0.1.6-2build1 amd64
2048/jammy 0.20210105.1243-1 amd64
2ping/jammy 4.5-1 all
2to3/jammy-updates 3.10.6-1~22.04 all
2vcard/jammy 0.6-4 all
3270-common/jammy 4.1ga10-1.1 amd64
389-ds-base-dev/jammy 2.0.15-1 amd64
389-ds-base-libs/jammy 2.0.15-1 amd64
389-ds-base/jammy 2.0.15-1 amd64
389-ds/jammy 2.0.15-1 all
3dchess/jammy 0.8.1-21 amd64
4g8/jammy 1.0-3.3 amd64
4pane/jammy 7.0-1 amd64
4ti2-doc/jammy 1.6.9+ds-4 all
4ti2/jammy 1.6.9+ds-4 amd64
64tass/jammy 1.56.2625-1 amd64
6tunnel/jammy 1:0.13-2 amd64
7kaa-data/jammy 2.15.4p1+dfsg-1 all
```



```
devesh@Dev: ~$ sudo dpkg -l
```

```
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
++- Name Version Architecture Description
ii adduser 3.118ubuntu5 all add and remove users and groups
ii alsa-topology-conf 1.2.5.1-2 all ALSA topology configuration fi
ii alsa-ucm-conf 1.2.6.3-1ubuntu1.5 all ALSA Use Case Manager configur>
ii apparmor 3.0.4-2ubuntu2.2 amd64 user-space parser utility for >
ii apport 2.20.11-0ubuntu82.4 all automatically generate crash r>
ii apport-symptoms 0.24 all symptom scripts for apport
ii apt 2.4.8 amd64 commandline package manager
ii apt-utils 2.4.8 amd64 package management related uti>
ii base-files 12ubuntu4.3 amd64 Debian base system miscellaneo>
ii base-passwd 3.5.52build1 amd64 Debian base system master pass>
ii bash 5.1-6ubuntu1 amd64 GNU Bourne Again Shell
ii bash-completion 1:2.11-5ubuntu1 all programmable completion for th>
ii bind9-dnsutils 1:9.18.12-0ubuntu0.22.04.1 amd64 Clients provided with BIND 9
ii bind9-host 1:9.18.12-0ubuntu0.22.04.1 amd64 DNS Lookup Utility
ii bind9libs:amd64 1:9.18.12-0ubuntu0.22.04.1 amd64 Shared Libraries used by BIND 9
ii binutils 2.38-4ubuntu2.1 amd64 GNU assembler, linker and bina>
ii binutils-common:amd64 2.38-4ubuntu2.1 amd64 Common files for the GNU assem>
ii binutils-x86-64-linux-gnu 2.38-4ubuntu2.1 amd64 GNU binary utilities, for x86->
ii bsdxtrautils 2.37.2-4ubuntu3 amd64 extra utilities from 4.4BSD-Li>
ii bsduutils 1:2.37.2-4ubuntu3 amd64 basic utilities from 4.4BSD-Li>
ii busybox-static 1:1.30.1-7ubuntu3 amd64 Standalone rescue shell with t>
ii byobu 5.133-1 all text window manager, shell mul>
ii ca-certificates 20211016ubuntu0.22.04.1 all Common CA certificates
ii chromium-bsu 0.9.16.1-3 amd64 fast paced, arcade-style, scro>
```



```
// Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
```

Name	Version	Architecture	Description
ii adduser	3.118ubuntu5	all	add and remove users and groups
ii alsa-topology-conf	1.2.5.1-2	all	ALSA topology configuration fi
ii alsa-ucm-conf	1.2.6.3-1ubuntu1.5	all	ALSA Use Case Manager configur
ii apparmor	3.0.4-2ubuntu2.2	amd64	user-space parser utility for >
ii apport	2.20.11-0ubuntu82.4	all	automatically generate crash r
ii apport-symptoms	0.24	all	symptom scripts for apport
ii apt	2.4.8	amd64	commandline package manager
ii apt-utils	2.4.8	amd64	package management related uti
ii base-files	12ubuntu4.3	amd64	Debian base system miscellaneo
ii base-passwd	3.5.52build1	amd64	Debian base system master pass
ii bash	5.1-6ubuntu1	amd64	GNU Bourne Again Shell
ii bash-completion	1:2.11-5ubuntu1	all	programmable completion for th
ii bind9-dnsutils	1:9.18.12-0ubuntu0.22.04.1	amd64	Clients provided with BIND 9
ii bind9-host	1:9.18.12-0ubuntu0.22.04.1	amd64	DNS Lookup Utility
ii bind9-libs:amd64	1:9.18.12-0ubuntu0.22.04.1	amd64	Shared Libraries used by BIND 9
ii binutils	2.38-4ubuntu2.1	amd64	GNU assembler, linker and bina
ii binutils-common:amd64	2.38-4ubuntu2.1	amd64	Common files for the GNU assem
ii binutils-x86-64-linux-gnu	2.38-4ubuntu2.1	amd64	GNU binary utilities, for x86->
ii bsdxextrautils	2.37.2-4ubuntu3	amd64	extra utilities from 4.4BSD-Li
ii bsduutils	1:2.37.2-4ubuntu3	amd64	basic utilities from 4.4BSD-Li
ii busybox-static	1:1.30.1-7ubuntu3	amd64	Standalone rescue shell with t
ii byobu	5.133-1	all	text window manager, shell mul
ii ca-certificates	20211016ubuntu0.22.04.1	all	Common CA certificates
ii chromium-bsu	0.9.16.1-3	amd64	fast paced, arcade-style, scro
devesh@Dev:~\$ sudo dpkg -l grep firefox			
ii firefox	1:1snap1-0ubuntu2	amd64	Transitional package - firefox
-> firefox snap			

```
devesh@Dev: ~  
ii chromium-bsu 0.9.16.1-3 amd64 fast paced, arcade-style, scro  
devesh@Dev:~$ sudo dpkg -l | grep firefox  
ii firefox 1:1snap1-0ubuntu2 amd64 Transitional package - firefox  
-> firefox snap  
devesh@Dev:~$ sudo dpkg -l | grep apache  
devesh@Dev:~$ dkpg -s firefox  
Command 'dkpg' not found, did you mean:  
  command 'dpkg' from deb dpkg (1.21.1ubuntu2.1)  
Try: sudo apt install <deb name>  
devesh@Dev:~$ dpkg -s firefox  
Package: firefox  
Status: install ok installed  
Priority: optional  
Section: oldlibs  
Installed-Size: 255  
Maintainer: Ubuntu Mozilla Team <ubuntu-mozillateam@lists.ubuntu.com>  
Architecture: amd64  
Version: 1:1snap1-0ubuntu2  
Replaces: firefox-dbg (< 1:1snap1), firefox-dev (< 1:1snap1), firefox-geckodriver (< 1:1snap1), firefox-mozsymbols (< 1:1snap1)  
Provides: gnome-www-browser, iceweasel, www-browser, x-www-browser  
Depends: debconf (>= 0.5) | debconf-2.0  
Pre-Depends: debconf, snapd  
Breaks: firefox-dbg (< 1:1snap1), firefox-dev (< 1:1snap1), firefox-geckodriver (< 1:1snap1), firefox-mozsymbols (< 1:1snap1)  
Description: Transitional package - firefox -> firefox snap  
  This is a transitional dummy package. It can safely be removed.  
.  
  firefox is now replaced by the firefox snap.  
devesh@Dev:~$ |
```