

Installing, Updating, and Removing Software in Linux

Task:

Update- The machine you'll be using comes preinstalled with an old version of the VLC Media Player. You'll update VLC to the newest version.

Install- You'll install the Mozilla Firefox web browser. There's currently no version of Firefox on the machine you'll be using, so it will be a fresh installation.

Uninstall - You'll uninstall the GIMP photo-editing tool from the machine, removing it entirely

Task 1: Verifying installed software on Linux (Firefox, Gimp, VLC)

FIREFOX: `dpkg -s firefox-esr`

```
student@26fab0a9c89d:~$ dpkg -s firefox-esr
dpkg-query: package 'firefox-esr' is not installed and no information is available
Use dpkg --info (= dpkg-deb --info) to examine archive files.
student@26fab0a9c89d:~$
```

In image above - Firefox is not installed

GIMP: `dpkg -s gimp`

```
student@26fab0a9c89d:~$ dpkg -s gimp
Package: gimp
Status: install ok installed
Priority: optional
Section: graphics
Installed-Size: 19024
Maintainer: Debian GNOME Maintainers <pkg-gnome-maintainers@lists.alioth.debian.org>
Architecture: amd64
Version: 2.10.8-2+deb10u1
Replaces: gimp-plugin-registry (<< 7.20140602+nmul~)
```

In image above - gimp is installed

VLC: `dpkg -s vlc`

```
student@26fab0a9c89d:~$ dpkg -s vlc
Package: vlc
Status: install ok installed
Priority: optional
Section: video
Installed-Size: 4667
Maintainer: Debian Multimedia Maintainers <pkg-multimedia-maintainers@lists.alioth.debian.org>
Architecture: amd64
Version: 2.2.7-1~deb8u1
Replaces: vlc-data (<< 1.1.5), vlc-nox (<< 2.2.0~pre2-2~), vlc-plugin-pulse (<< 2.2.0~pre2-2~)
```

In image above - VLC is installed

Task 2: Updating VLC Media Player

Use command: `sudo apt-get install -f`

And once update is finished check results with: `dpkg -s vlc`

```
student@26fab0a9c89d:~$ sudo apt-get install -f
Reading package lists... Done
Building dependency tree
Reading state information... Done
Correcting dependencies... Done

student@26fab0a9c89d:~$ dpkg -s vlc
Package: vlc
Status: install ok installed
Priority: optional
Section: video
Installed-Size: 231
Maintainer: Debian Multimedia Maintainers <debian-multimedia@lists.debian.org>
Architecture: amd64
Version: 3.0.20-0+deb10u1
```

Task 3: Installing Mozilla Firefox

First update repository process using: `sudo apt-get update`

```
student@26fab0a9c89d:~$ sudo apt-get update
Hit:1 http://deb.debian.org/debian buster InRelease
Hit:2 http://deb.debian.org/debian-security buster/updates InRelease
Hit:3 http://deb.debian.org/debian buster-updates InRelease
Reading package lists... Done
student@26fab0a9c89d:~$
```

Now install FireFox using: `sudo apt-get install firefox-esr`

```
student@26fab0a9c89d:~$ sudo apt-get install firefox-esr
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libdbus-glib-1-2
Suggested packages:
  fonts-stix | otf-stix fonts-lmodern libcanberra0 pulseaudio
The following NEW packages will be installed:
  firefox-esr libdbus-glib-1-2
0 upgraded, 2 newly installed, 0 to remove and 56 not upgraded.
Need to get 62.7 MB of archives.
After this operation, 235 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Confirm installation with: `dpkg -s firefox-esr`

```
student@26fab0a9c89d:~$ dpkg -s firefox-esr
Package: firefox-esr
Status: install ok installed
Priority: optional
Section: web
Installed-Size: 229162
Maintainer: Maintainers of Mozilla-related packages <team+pkg-mozilla@tracker.debian.org>
Architecture: amd64
Version: 115.12.0esr-1~deb10u1
Provides: gnome-www-browser, www-browser
Depends: libasound2 (>= 1.0.16), libatk1.0-0 (>= 1.12.4), libc6 (>= 2.28), libcairo-gobject2 (>= 1.10.0), libcairo2 (>= 1.10.0), libdbus-1-3 (>= 1.9.14), libdbus-glib-1-2 (>= 0.78), libffi6 (>= 3.0.10~rc8), libfontconfig1 (>= 2.12.6), libfreetype6 (>= 2.3.5), libgcc1 (>= 1:4.0), libgdk-pixbuf2.0-0 (>= 2.22.0), libglib2.0-0 (>= 2.37.0), libgtk-3-0 (>= 3.13.7), libpango-1.0-0 (>= 1.14.0), libstdc++6 (>= 6), libx11-6, libx11-xcb1, libxcb-shm0, libxcb1, libxcomposite1 (>= 1:0.3-1), libxdamage1 (>= 1:1.1), libxext6, libxfixes3, libxrandr2 (>= 2:1.4.0), libxtst6, zlib1g (>= 1:1.2.11.dfsg), fontconfig, procps, debianutils (>= 1.16)
Recommends: libavcodec60 | libavcodec-extra60 | libavcodec59 | libavcodec-extra59 | libavcodec58 | libavcodec-extra58 | libavcodec57 | libavcodec-extra57 | libavcodec56 | libavcodec-extra56 | libavcodec55 | libavcodec-extra55 | libavcodec54 | libavcodec-extra54 | libavcodec53 | libavcodec-extra53
Suggests: fonts-stix | otf-stix, fonts-lmodern, libgssapi-krb5-2 | libkrb53, libcaneberra0, pulseaudio
Breaks: xul-ext-torbutton
Conflicts: iceweasel (<< 45)
Conffiles:
 /etc/firefox-esr/firefox-esr.js cebd145f0dd82696213e50218ff1a1bf
Description: Mozilla Firefox web browser - Extended Support Release (ESR)
 Firefox ESR is a powerful, extensible web browser with support for modern web application technologies.
student@26fab0a9c89d:~$
```

Task 4: Uninstalling GIMP

Uninstall GIMP using: `sudo apt-get remove gimp`

```
student@26fab0a9c89d:~$ sudo apt-get remove gimp
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
 fonts-droid-fallback fonts-noto-mono ghostscript gimp-data gsfonts libamd2
 libbabl-0.1-0 libblas3 libcamd2 libccolamd2 libcholmod3 libcolamd2
 libcupsfilters1 libcupsimage2 libde265-0 libexiv2-14 libgail-common libgail18
 libgegl-0.4-0 libgegl-common libgexiv2-2 libgfortran5 libgimp2.0 libgs9
 libgs9-common libgtk2.0-0 libgtk2.0-bin libgtk2.0-common libheif1 libijs-0.35
 libilmbase23 libjbig2dec0 liblapack3 libmetis5 libmng1 libmypaint-1.3-0
 libmypaint-common libnspr4 libnss3 libopenexr23 libpaper-utils libpaper1
 libpoppler-glib8 libpoppler82 libraw19 libsuitesparseconfig5 libumfpack5
 libwebpdemux2 libwmf0.2-7 poppler-data
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
 gimp
0 upgraded, 0 newly installed, 1 to remove and 56 not upgraded.
After this operation, 19.5 MB disk space will be freed.
Do you want to continue? [Y/n]
```

Check removal with: `dpkg -s gimp`

```
student@26fab0a9c89d:~$ dpkg -s gimp
dpkg-query: package 'gimp' is not installed and no information is available
Use dpkg --info (= dpkg-deb --info) to examine archive files.
student@26fab0a9c89d:~$
```