

Install Guide for elementary OS 5.0

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Installation

- Boot from media
- Recommended partitioning

Partition	Size	Filesystem	Mountpoint
sda1	2 GB	ext4	/boot
sda2	200 MB	vfat	/boot/efi
sda3		cryptodevice	
sda3_crypt		ext4	/

- Swap is default on /swapfile

System Customization

/etc/nsswitch.conf

```
hosts:          files dns mdns4_minimal [NOTFOUND=return] dns
```

/etc/vim/vimrc.tiny

```
set nocompatible
```

/etc/systemd/timesyncd.conf

```
NTP=<ntpserver>
```

Restart service `sudo systemctl restart systemd-timesyncd.service`.

Add Software Components

```
sudo apt-get -y install software-properties-common gdebi seahorse mc unrar net-tools  
openssh-server traceroute flatpak fsarchiver
```

Elementary Tweaks

```
sudo add-apt-repository -y ppa:philip.scott/elementary-tweaks
sudo apt-get -y update
sudo apt-get -y install elementary-tweaks
```

Backup (Deja Dup)

Installation

```
sudo apt-get -y install deja-dup
```

Add Deja Dup Support to Filemanager

Create file `/usr/share/contractor/dejadup-restore.contract`:

```
[Contractor Entry]
Name=Restore missing files in folder
Icon=edit-find
Description=Restores missing files in folder using dejadup
MimeType=inode/directory
Exec=deja-dup --restore-missing %U
Gettext-Domain=deja-dup
```

Create file `/usr/share/contractor/dejadup-revert.contract`:

```
[Contractor Entry]
Name=Revert to previous version...
Description=Revert to a previous version
Icon=edit-find
MimeType=application/octet-stream
Exec=deja-dup --restore %U
Gettext-Domain=deja-dup
```

Log-off and log-on required.

Software from Repository

```
sudo apt-get -y install firefox
sudo apt-get -y install exiftool
sudo apt-get -y install wireshark
sudo apt-get -y install ding
sudo apt-get -y install dosbox
sudo apt-get -y install fs-uae-launcher
sudo apt-get -y install isomaster
sudo apt-get -y install asunder lame
sudo apt-get -y install keepasscx
sudo apt-get -y install handbrake
sudo apt-get -y install streamripper
sudo apt-get -y install vim
```

```
sudo apt-get -y install default-jre
sudo apt-get -y install rhythmbox
sudo apt-get -y install ansible sshpass
sudo apt-get -y install libdvd-pkg
sudo apt-get -y install pavucontrol
sudo dpkg-reconfigure libdvd-pkg
```

Software from flathub

```
sudo su -
flatpak remote-add --if-not-exists flathub https://flathub.org/repo/flathub.flatpakrepo

flatpak install flathub org.darktable.Darktable
flatpak install flathub org.gimp.GIMP
flatpak install flathub org.libreoffice.LibreOffice
flatpak install flathub org.pitivi.Pitivi
flatpak install flathub org.videolan.VLC
flatpak install flathub org.avidemux.Avidemux
flatpak install flathub com.jgraph.drawio.desktop
exit
```

Software from snapcraft

```
sudo snap install terminus-app
```

Software from Package

- pyrenamer
- mailspring
- draw.io
- virtualbox
- master-pdf-editor

Software from 3rd Party Repository

```
sudo add-apt-repository -y ppa:heylarje/makemkv-beta
sudo apt-get -y update
sudo apt-get install makemkv-bin makemkv-oss

sudo add-apt-repository -y ppa:mixxx/mixxx
sudo apt-get -y update
sudo apt-get -y install mixxx

wget -qO - https://typora.io/linux/public-key.asc | sudo apt-key add -
sudo add-apt-repository -y 'deb https://typora.io/linux .'
sudo apt-get -y update
sudo apt-get -y install typora
```

Hints

Disable Natural Copy-and-Paste in Terminal

```
gsettings set io.elementary.terminal.settings natural-copy-paste false
```

Add User to Group "audio"

- If sound device HDMI is not showing in sound settings
- Audio should be played in locked mode

Add User to Group "cdrom"

- If CD-ROM access should be available when desktop is locked

Disable Suspend after Idle (BUG WORKAROUND)

```
sudo -s  
su -s /bin/bash lightdm
```

check

```
dbus-launch gsettings get org.gnome.settings-daemon.plugins.power sleep-inactive-ac-type  
dbus-launch gsettings get org.gnome.settings-daemon.plugins.power sleep-inactive-battery-type
```

disable

```
dbus-launch gsettings set org.gnome.settings-daemon.plugins.power sleep-inactive-ac-type  
nothing  
dbus-launch gsettings set org.gnome.settings-daemon.plugins.power sleep-inactive-battery-type  
nothing
```

MacBook Pro 13" 2013

Disable S/PDIF Optical Out

Install alsa-tools.

```
sudo apt-get -y install alsa-tools
```

Disable the red light in the headphone jack even after resume from suspend with a cronjob.

```
*/3 * * * * /usr/bin/hda-verb /dev/snd/hwC1D0 0x0e SET_POWER_STATE 0x03
```

Driver for Facetime HD Camera

```
cd /usr/local/src
sudo git clone https://github.com/patjak/bcwc_pcie.git
cd bcwc_pcie/firmware
sudo make
sudo make install
cd ..
sudo make
sudo install
sudo depmod
sudo modprobe -r bdc_pci
sudo modprobe facetimehd
```

Fan control for MacBook - macfanctld

Installation

```
sudo apt-get -y install macfanctld
```

/etc/macfanctl.conf

```
fan_min: 0

temp_TC0P_floor: 55
temp_TC0P_ceiling: 73

temp_TG0P_floor: 55
temp_TG0P_ceiling: 65
```

Restart Service

```
sudo systemctl restart macfanctld.service
```

Power Saving on Laptop

powertop

Installation

```
sudo apt-get -y install powertop
```

/etc/systemd/system/powertop.service

```
[Unit]
Description=Powertop tunings

[Service]
Type=oneshot
ExecStart=/usr/sbin/powertop --auto-tune

[Install]
WantedBy=multi-user.target
```

Enable Service

```
sudo systemctl daemon-reload
sudo systemctl enable powertop.service
sudo systemctl start powertop.service
```

TLP

Installation

```
sudo apt-get -y install tlp
```

Enable Service

```
sudo systemctl start tlp.service
```

Installing NVIDIA Driver

- Download latest driver <https://www.geforce.com/drivers>
- Logout from desktop and login into text console `Ctrl+Alt+F1`
- Install driver

```
sudo systemctl stop lightdm.service
chmod u+x NVIDIA-Linux-x86_64-<version>.run
sudo ./NVIDIA-Linux-x86_64-<version>.run
```

- It was successful answering all questions with "yes"