

Debian-minimal

Configure Debian and install only essential packages after installing the OS.

<https://github.com/Pinaki82/Debian-minimal>

This repository draws inspiration from [Pinaki82's Xubuntu-minimum-shell-config](#) repository on GitHub.

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What this repository is for?

Guides to:

- Install Debian-XFCE on a system.
- Install programs commonly used by most people.
- *Modify* and *back up* 'only one install script' that serves you forever. You'll get a workable installation.

Serves:

What this repository is not?

- This repository doesn't aim to be a Debian-descendant distribution.

This repository was started as a backup to the config files I use on my Debian-XFCE system. Then, I decided to split the core parts from basic to minimal. Basic means, you'll need those packages and configurations as a starting point. Here, Minimal stands for, you'll find packages most people use. Now it is your responsibility to include/discard sections of the 'minimal' unit and keep a backup of your final version that you will use forever. Feel free to clone this repository as a starting point for your own desktop configuration.

Thou Shalt Not:

- Ever try to install Ubuntu PPAs. Debian does not have a mechanism to recognise PPAs, and doing so may corrupt your system.
- Install DEB packages that are not meant for Debian and are only meant for Ubuntu-descendant Linux distributions. These packages may not be compatible with your system and could cause problems.
- Enable backports unless absolutely necessary. Backports are packages that have been ported from a newer version of Debian to an older version. They can sometimes cause problems, so only enable them if you need a specific updated version of a package that is not available in the main Debian repositories. Even if you have enabled backports, do not install more than one or two apps from there, that too, never without thorough consideration.
- Run commands or scripts from unverified sources. These commands could contain malicious code that could damage your system. Every time you run a command you must try to understand what that does.
- Install more apps than you need. This can clutter your system and make it less stable.
- Install a GUI-Userspace app (like GIMP, Inkscape, Krita, or Blender) from the Debian repository. Instead, you must prefer AppImage, Snap and Flatpak over the default repository as long as it is feasible.
- Install GUI-Userspace apps (like GIMP, Inkscape, Krita, and Blender) from the Debian repository. These extra apps will clutter your system. Instead, use AppImage, Snap, or

Flatpak, which are newer formats that are more stable and up-to-date. Choose these newer containerised packaging platforms over the default repository as long as it is feasible.

- Avoid reading the documentation found here, online, discussions found in online forums, doing a web search, asking an AI engine when in doubt, RTFM - Read The Friendly Man Page before taking any steps no matter how trivial the step is when you do not know the deal.

What you're allowed to do:

You can do an `apt search` for a package from the command line. There's no harm in trying to install packages in Debian as `sudo apt install package-gtk` when that particular package is `package-gtk3` in Debian. The command will not find the package in Debian's repository and return an error message without installing anything. However, adding PPAs or installing packages meant exclusively for Ubuntu will certainly damage your installation.

Your best bet will be to find a similar package as:

```
apt search package-you-have-seen-in-ubuntu-repository
```

You'll get an overall view and find the right direction.

Remember that Debian and Ubuntu have different package repositories. One doesn't pull anything directly from another's repository. Especially, Debian pulls nothing from Ubuntu's repository. Do not try to mix them.

How to Use instructions and scripts provided here:

NOTE: Please keep this GitHub page open in your phone's browser to look at commands until your system is ready to display TXT/PDF files.

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Programs to Create Bootable USB Drives:

<https://rufus.ie/en/> (Recommended for Microsoft Windows users)

<https://etcher.balena.io/>

Debian Homepage: <https://www.debian.org/>

Debian Non-Free Firmware:

<https://cdimage.debian.org/images/unofficial/non-free/firmware/>

Download Debian (Recommended):

<https://www.debian.org/download>

debian-xx.x.x-amd64-netinst.iso

Debian Live Images:

Ref: <https://unix.stackexchange.com/questions/307251/is-there-a-try-debian-without-install-option>

Download: <https://www.debian.org/CD/live/>

Debian-12-bookworm firmware:

<https://cdimage.debian.org/images/unofficial/non-free/firmware/bookworm/12.0.0/>

File: `firmware.zip`

A Basic Guide:

<https://phoenixnap.com/kb/how-to-install-debian-10-buster>

Troubleshoot Blank Screen after crossing the GRUB Menu section:

<https://forums.debian.net/viewtopic.php?t=63844>

Press `e` when the GRUB appears.

Find the line containing `ro quiet` or `quiet`.

Add/Type the following commands to the end of the line,

```
splash nomodeset
```

```
CTRL + x [NOTE: On VirtualBox, use the Soft Keyboard from the menu bar.]
```

Once you enter the desktop:

Add the current user to **sudoers**:

```
su
```

```
sudo su root
```

```
sudo nano /etc/sudoers
```

Find the section:

```
#User privilege specification  
root ALL=(ALL:ALL) ALL
```

Then, add your username there as described below (`yourusername ALL=(ALL: ALL) ALL`).

```
#User privilege specification  
root ALL=(ALL:ALL) ALL  
yourusername ALL=(ALL: ALL) ALL
```

Reboot the system.

```
sudo reboot now
```

Add the current user to **sudoers** again by doing:

```
sudo usermod -aG sudo $(whoami)
```

Edit the GRUB Bootloader:

Ref: <https://unix.stackexchange.com/questions/538562/how-do-i-edit-grub-cfg-and-save-it>

```
sudo nano /etc/default/grub
```

Find the line containing `ro quiet` or `quiet`

Add the following in the same line

```
splash nomodeset
```

Update the GRUB Bootloader:

```
sudo update-grub
```

```
sudo update-grub2
```

Troubleshoot: <https://serverfault.com/questions/717725/journalctl-access-for-non-root-users>

Hint: You are currently not seeing messages from other users and the system.
Users in groups 'adm', 'systemd-journal' can see all messages.
Pass `-q` to turn off this notice.

```
sudo usermod -a -G systemd-journal $(whoami)
```

Reboot:

```
sudo reboot now
```

Update the system:

```
yes | sudo apt update && sudo apt upgrade
```

=====

- Now, read the text file `00_debian-fresh-install.txt` . You'll know when to look at specific files.
- Next, read the script `01_debian_essential.sh` before running it. The script is about installing basic dependency/userspace packages that you usually expect from a computer or you'll need later.

Change the permission of the script before executing the script [Give it permission to execute].

```
chmod +x 01_debian_essential.sh
```

To Run:

```
./01_debian_essential.sh
```

- Come back to the primary instruction file `00_debian-fresh-install.txt` . Simply, read it without doing anything.
- When you come to see that the instruction tells you to READ/MODIFY/RUN the final script `02_debian_minimal_packages.sh` , do that and then come back again to the instruction file `00_debian-fresh-install.txt` .

```
chmod +x 02_debian_minimal_packages.sh
```

```
./02_debian_minimal_packages.sh
```

- Read the files in the folder 'shell' to get an overview of more packages.
- Look at other folders given here for desktop/app/system configurations.

Alternative Software Search:

1. switching.software

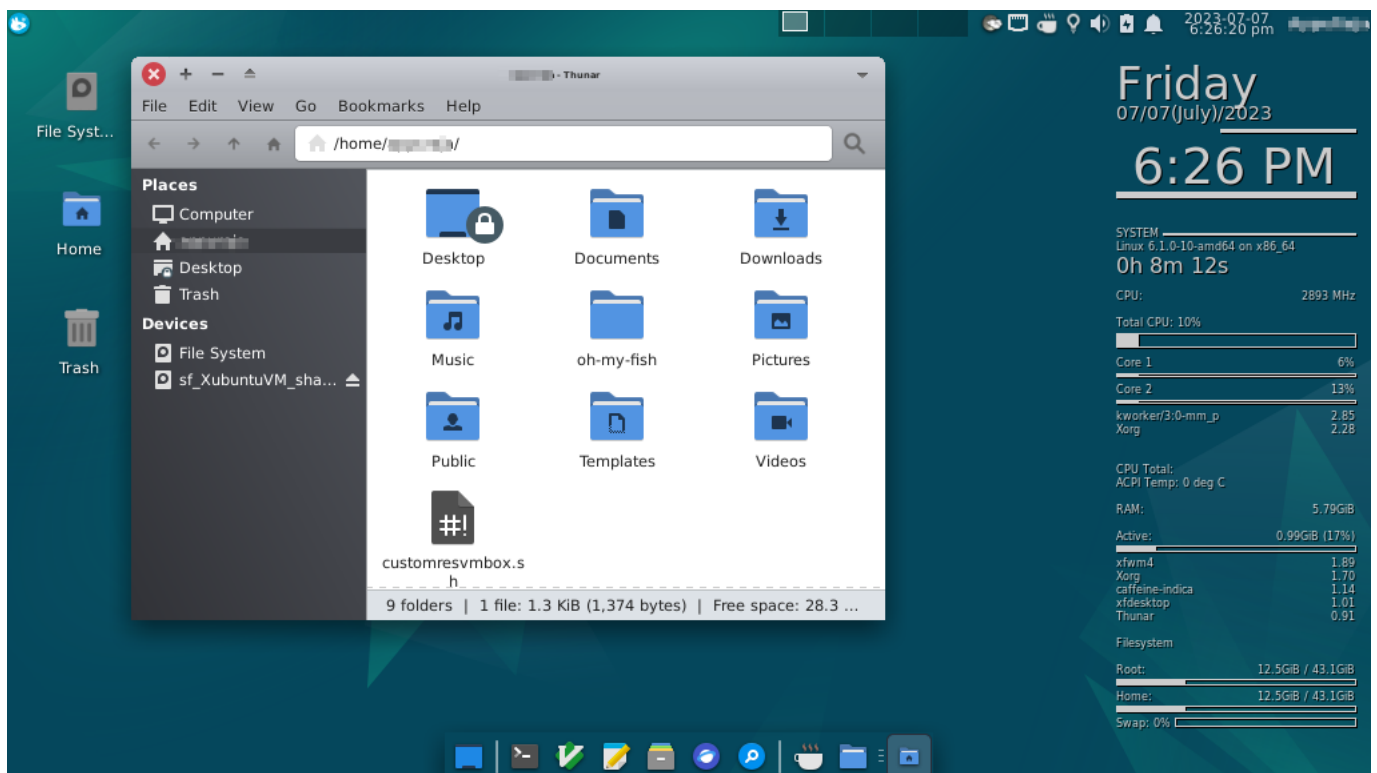
(Git repository link to *switching.software*: <https://codeberg.org/swiso/website>)

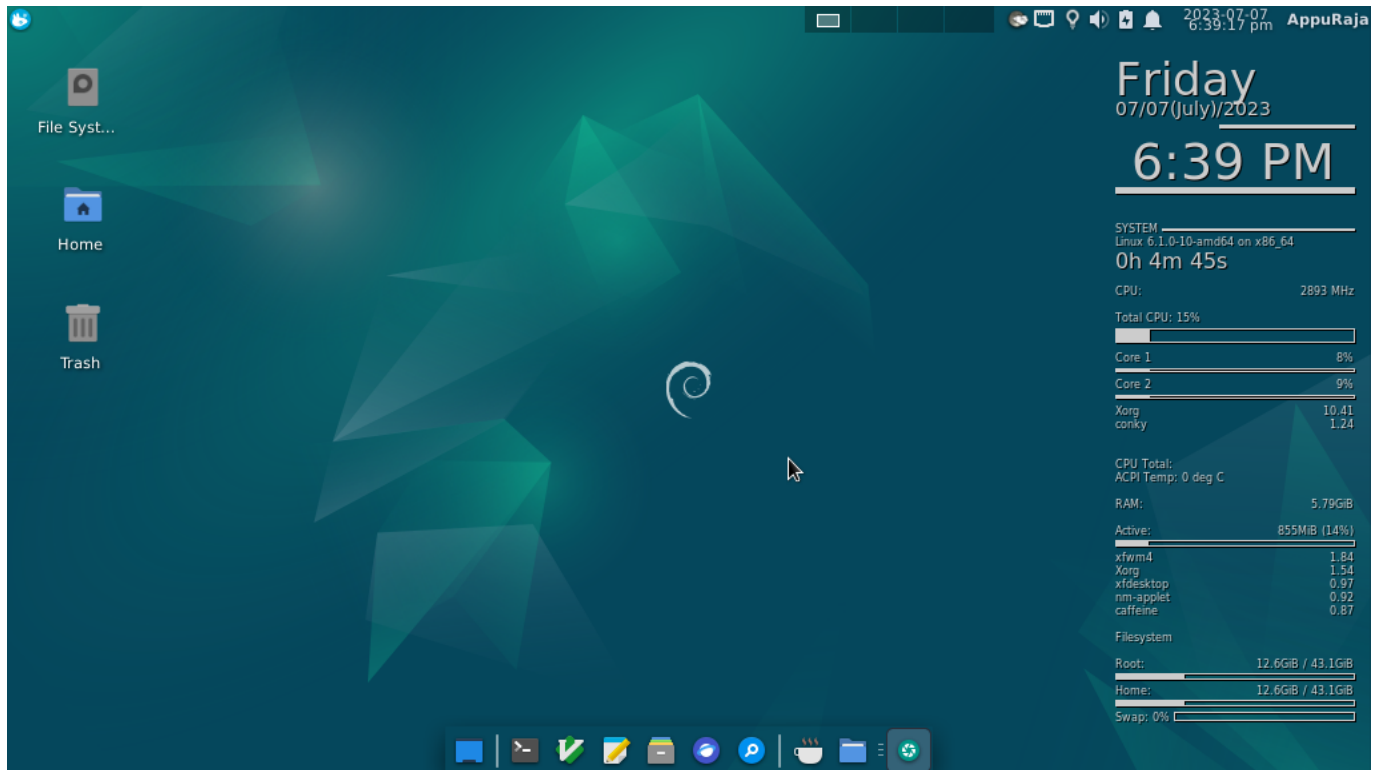
2. [AlternativeTo](#)

As a Mega-Bonus Offer for FREE, you'll find:

- Some essential MS Windows configurations.
- Suggestions for truly cross-platform alternative software in practical terms.
- Most applications are curated to work on MS Windows for an uncompromising cross-platform experience.

How Does It Look Like?





```
Terminal -
File Edit View Terminal Tabs Help

0[||||| 8.0%] Tasks: 81, 170 thr, 81 kthr; 4 running
1[|||| 6.7%] Load average: 1.85 2.27 1.36
2[||||| 15.4%] Uptime: 00:08:32
3[||||| 34.1%]
Mem[||||| 663M/5.79G]
Swp[ 0K/975M]

Main I/O
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
787 root 20 0 466M 93720 53596 S 100.7 1.5 2:44.20 /usr/lib/xorg
1130 root 20 0 466M 93720 53596 R 16.0 1.5 0:18.57 /usr/lib/xorg
2095 appuraja 20 0 8260 4280 3372 R 15.1 0.1 0:01.00 http
1392 appuraja 20 0 1207M 111M 79260 S 10.4 1.9 0:13.27 xfwm4 --displ
2099 appuraja 20 0 407M 47596 36432 S 5.6 0.8 0:00.50 xfce4-screens
1331 appuraja 20 0 276M 2324 1948 S 3.8 0.0 0:08.95 /usr/bin/VBox
1417 appuraja 20 0 468M 48328 36224 S 3.8 0.8 0:12.25 xfce4-panel -
1326 appuraja 20 0 276M 2324 1948 S 2.8 0.0 0:08.96 /usr/bin/VBox
1983 appuraja 20 0 475M 51176 39068 S 2.8 0.8 0:00.84 xfc4-termina
1379 appuraja 20 0 160M 10004 7128 S 1.9 0.2 0:00.67 /usr/libexec/
1372 appuraja 20 0 8468 4288 3760 S 0.9 0.1 0:00.63 /usr/bin/dbus
1 root 20 0 164M 12484 9116 S 0.0 0.2 0:13.57 /sbin/init sp
263 root 20 0 49472 15564 14340 S 0.0 0.3 0:05.64 /lib/systemd/

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice F8Nice F9Kill F10Quit
```



```
Terminal -
File Edit View Terminal Tabs Help

appuraja ~ neofetch

_,met$$$$$gg.
,g$$$$$$$$$$$$$P.
,g$P" ""Y$.
,$$P' `$$$
',$$P ,ggs. `$$b:
`d$$' ,,$P" `$$$
$$P d$' , $$P
$$: $$ - ,d$$'
$$; Y$b._ _,$P'
Y$$ . `Y$$$$P"
`$$b "-._
`Y$$
`Y$$
`$$b.
`Y$b.
`Y$b._
`""

appuraja@debian-appuraja-vm
-----
OS: Debian GNU/Linux 12 (bookworm) x86_64
Host: VirtualBox 1.2
Kernel: 6.1.0-10-amd64
Uptime: 9 mins
Packages: 2057 (dpkg), 11 (flatpak), 7 (snap)
Shell: bash 5.2.15
Resolution: 1024x576
DE: Xfce 4.18
WM: Xfwm4
WM Theme: PRO-dark-XFCE-4.14
Theme: PRO-dark-XFCE-4.14 [GTK2/3]
Icons: Papirus-Dark [GTK2/3]
Terminal: xfce4-terminal
Terminal Font: Monospace 8.5
CPU: Intel i5-4570S (4) @ 2.893GHz
GPU: 00:02.0 VMware SVGA II Adapter
Memory: 648MiB / 5925MiB
```

File Syst...

Home

Trash

Log out

Log Out

Restart

Shut Down

Suspend

Hibernate

Hybrid Sleep

Switch User

☒ Save session for future logins

Cancel

2023-07-07
6:47:11 pm

Friday
07/07(July)/2023
6:47 PM

SYSTEM
Linux 6.1.0-10-amd64 on x86_64
0h 12m 39s

CPU: 2893 MHz
Total CPU: 7%
Core 1 3%
Core 2 3%
Xorg ksoftirqd/3 13.50
ksoftirqd/3 1.20

CPU Total:
ACPI Temp: 0 deg C

RAM: 5.79GiB
Active: 854MiB (14%)
xfwm4 1.80
Xorg 1.66
xfdesktop 1.08
nm-applet 0.92
caffeine 0.87

Filesystem
Root: 12.6GiB / 43.1GiB
Home: 12.6GiB / 43.1GiB
Swap: 0%