

# v.0.0.1 itadOS Guides

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# Contents

Create itadOS ISO	2
Prerequisites:	2
Helpful links for live-build:	2
Step 1 – Create a directory	3
Step 2 – Create live-build config directory	3
Step 3 – Insert itadOS into live-build	4
Step 4 – Give itadOS execution permission	4
Step 5 – Add the dependencies	5
Step 6 – Start itadOS on boot	6
Step 7 – Allow laptop lid to be closed	7
Step 8 – Legacy boot	8
Step 9 – UEFI boot	10
Step 10. – Build ISO	11
Modify itadOS	12
Step 1 – Clean config	12
Step 2 – Modify itadOS settings	13
Step 3 – Issue config command	14
Step 4 – Build ISO	14
Create itadOS USB disk	16
Step 1 – Get flashing utility.	16
Step 2 – Get itadOS ISO	16
Step 3 – Flash USB disk with itadOS	17

# **Create itadOS ISO**

# Prerequisites:

- Computer or virtual machine with Debian operating system.
  - The following packages installed:
    - nvme-cli
    - lshw
    - dd (coreutils)
    - hdparm
    - rtcwake (util-linux)
    - mmc-utils
    - whiptail
    - shred (coreutils)
    - smartmontools
    - pciutils
    - fop
    - xsltrpoc
    - live-build
    - isolinux

## Helpful links for live-build:

https://debian-install-notes.pages.dev/netinstall/live-build#3

https://manpages.debian.org/testing/live-build/lb\_config.1.en.html

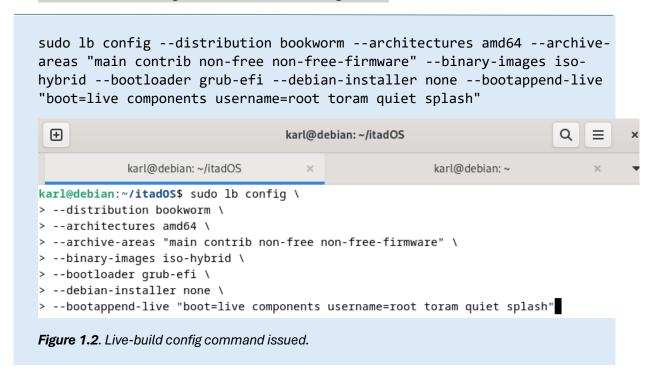
#### Step 1 – Create a directory

• Create a directory and change directory to it, as an in an example shown in figure 1.1.



Step 2 - Create live-build config directory

Enter the following command, as shown in figure 1.2:



#### Step 3 - Insert itadOS into live-build

#### Insert itadOS to config/includes.chroot, as shown in figure 1.3.

(in this example itadOS was downloaded from github: <a href="https://github.com/karloismann/itadOS">https://github.com/karloismann/itadOS</a>)

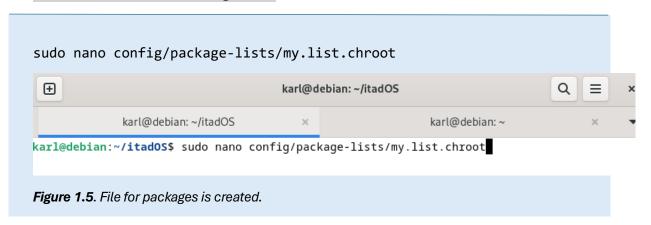
#### Step 4 – Give itadOS execution permission

Issue chmod command, as shown in figure 1.4.

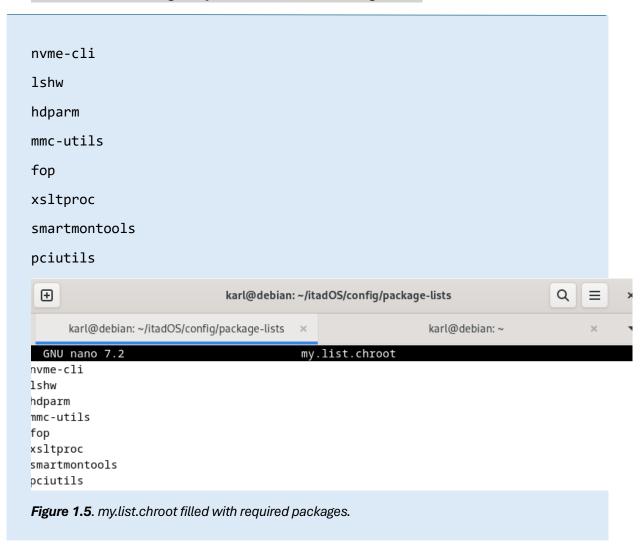


#### Step 5 – Add the dependencies

#### Create a file, as shown in figure 1.5.

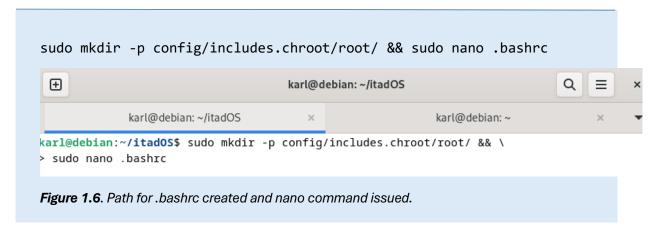


#### Insert the following to my.list.chroot, as shown in figure 1.6:

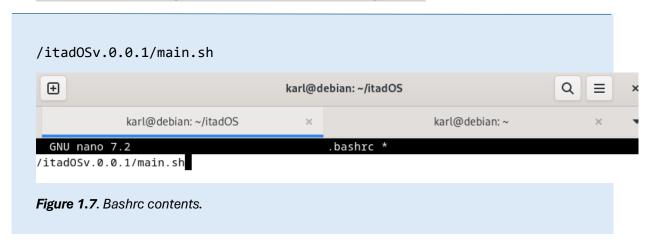


## Step 6 - Start itadOS on boot

• Create path and file '.bashrc' and start editing it, as shown in figure 1.6.

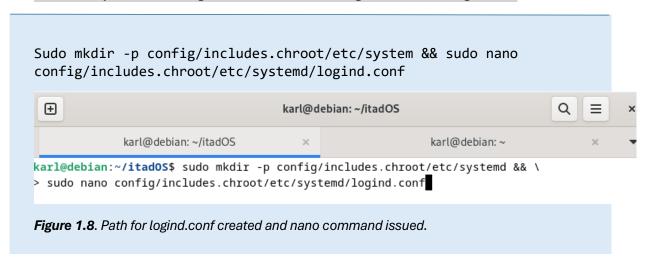


Insert the following line into .bashrc, as shown in figure 1.7:



#### Step 7 – Allow laptop lid to be closed

Create path and file 'logind.conf' and start editing it, as shown in figure 1.8.



• Add the following to logind.conf, as shown in figure 1.9:

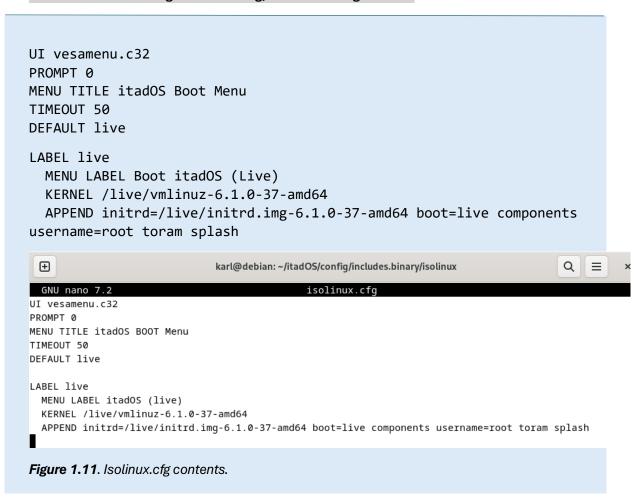


#### Step 8 - Legacy boot

#### • Create path and file, as shown in figure 1.10:



#### • Insert the following to isolinux.cfg, as shown in figure 1.11:

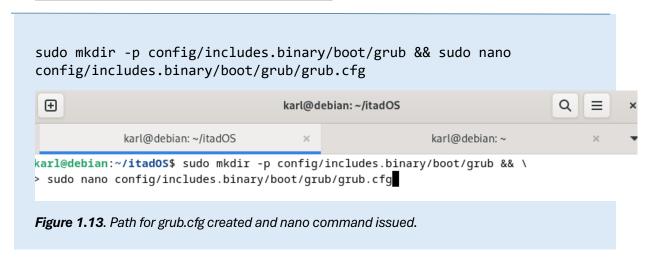


Also add required binaries from syslinux, as shown in figure 1.12:



#### Step 9 - UEFI boot

#### • Create path and file, as shown in figure 1.13:

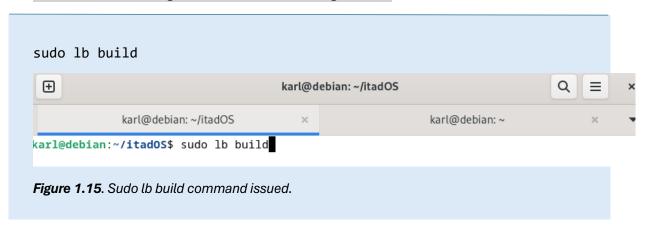


#### Insert the following to grub.cfg, as shown in figure 1.14:

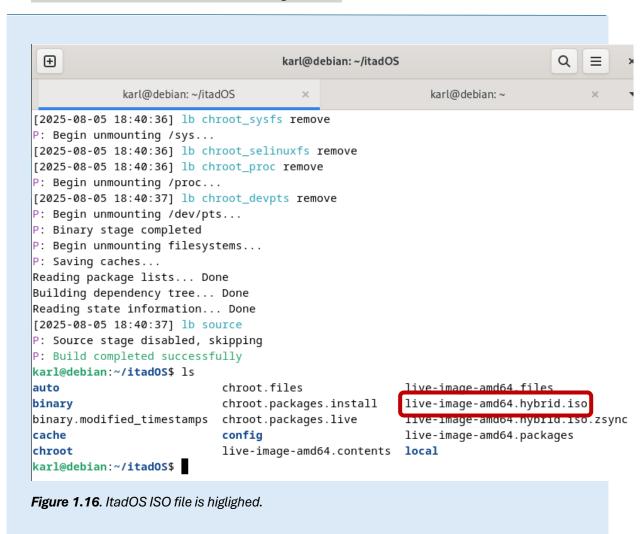
```
set default=0
set timeout=5
menuentry "itadOS (Live)" {
     linux /live/vmlinuz-6.1.0-37-amd64 boot=live toram
     initrd /live/Initrd.img-6.1.0-37-amd64
}
 +
                                      karl@debian: ~/itadOS/config/includes.binary/boot/grub
GNU nano 7.2
                                                    grub.cfg
set default=0
set timeout=5
menuentry "itadOS (Live)" {
 linux /live/vmlinuz-6.1.0-37-amd64 boot=live components username=root toram quiet splash
 initrd /live/Initrd.img-6.1.0-37-amd64
Figure 1.14. grub.cfg contents.
```

#### Step 10. - Build ISO

#### Enter the following command, as shown in figure 1.15:



#### ISO file is now created as shown in figure 1.16.



# **Modify itadOS**

Step 1 - Clean config

Go into the directory created <u>here</u> and insert the following command, as shown in figure
 2.1:

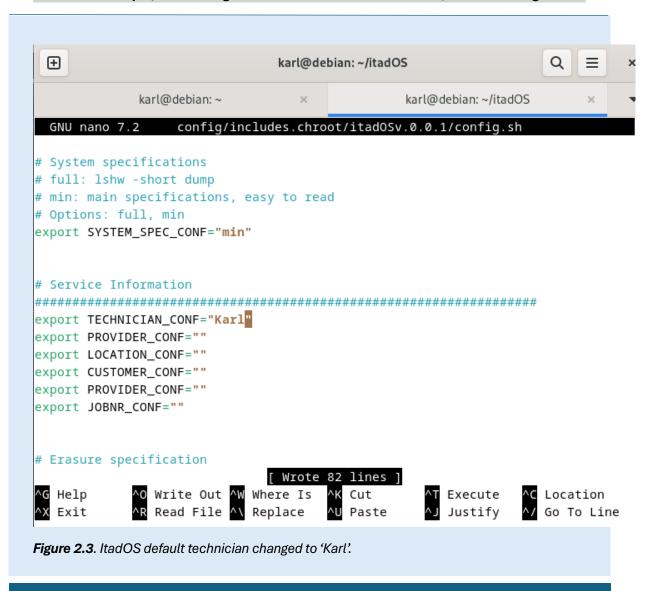


#### Step 2 - Modify itadOS settings

Modify settings in config.sh, as shown in figure 2.2.

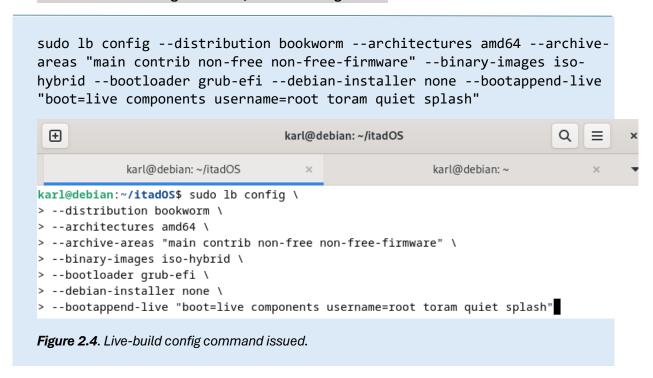


• In this example, I am setting default technician's name to 'Karl', as shown in figure 2.3.



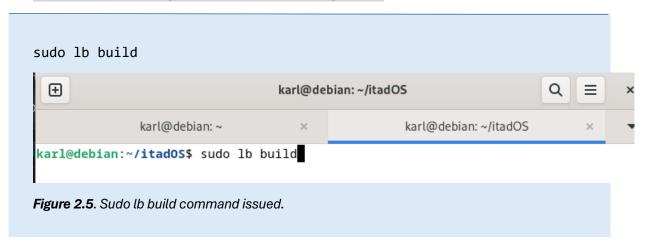
#### Step 3 - Issue config command

#### • Enter the following command, as shown in figure 2.4:

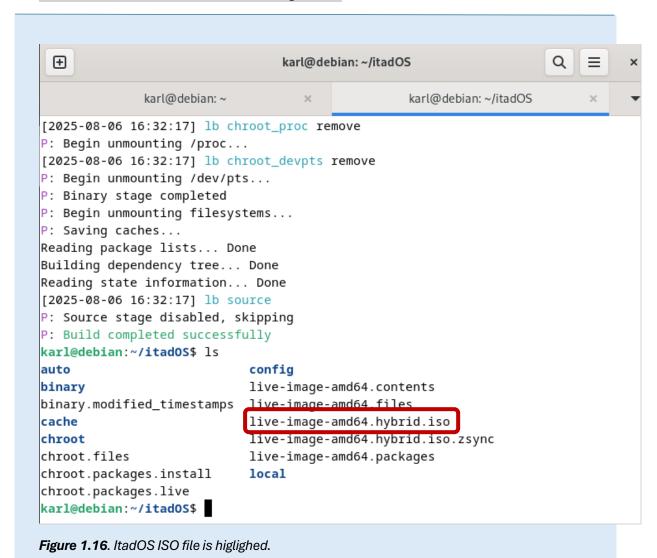


#### Step 4 – Build ISO

#### Enter the following command, as shown in figure 2.5:



#### ISO file is now created as shown in figure 2.6.



KARL-MARKUS OISMANN 15

# **Create itadOS USB disk**

This guide is utilising rufus on Windows PC.

Step 1 – Get flashing utility.

Install Rufus (windows) or other alternative software.

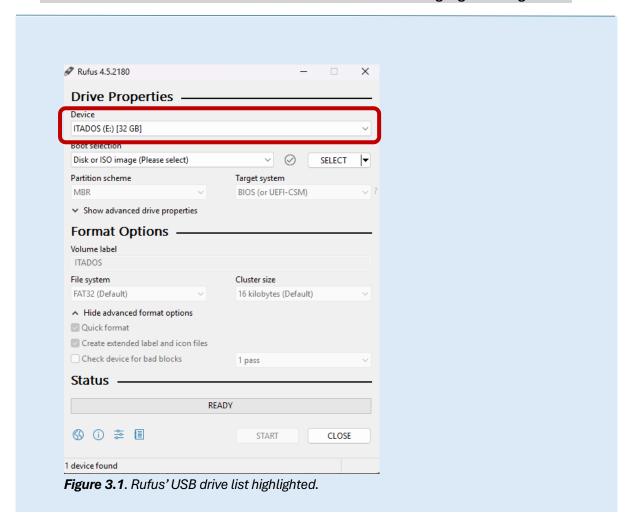
Rufus: https://rufus.ie/en/

Step 2 – Get itadOS ISO

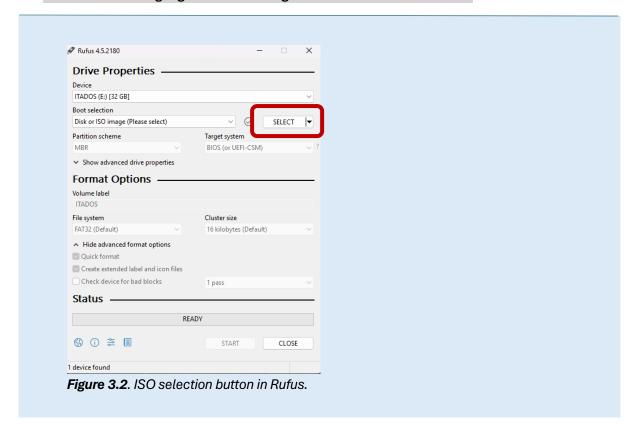
Download itadOS ISO from <u>here</u> OR create ISO <u>here</u>.

#### Step 3 – Flash USB disk with itadOS

Insert the USB drive into the PC and choose it from the list highlighted in figure 3.1.



# Click on the highlighted button in figure 3.2 and select itadOS ISO.



- Name the volume label as 'ITADOS' as highlighted in figure 3.3, and press 'START'.
  - This helps itadOS to identify boot disk.

