



# Ubuntu 22.04 LTS Installation on the Framework Laptop

How to install Ubuntu 22.04 LTS Linux on a Framework Laptop

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## INTRODUCTION

Once you have your Framework Laptop set up following the [Quick Start Guide](#), you're ready to install your preferred OS. Ubuntu 22.04 LTS works fantastically well right out of the box. WiFi and the \*\*Fingerprint Reader work automatically. With one workaround, you can also get pretty good standby battery life.

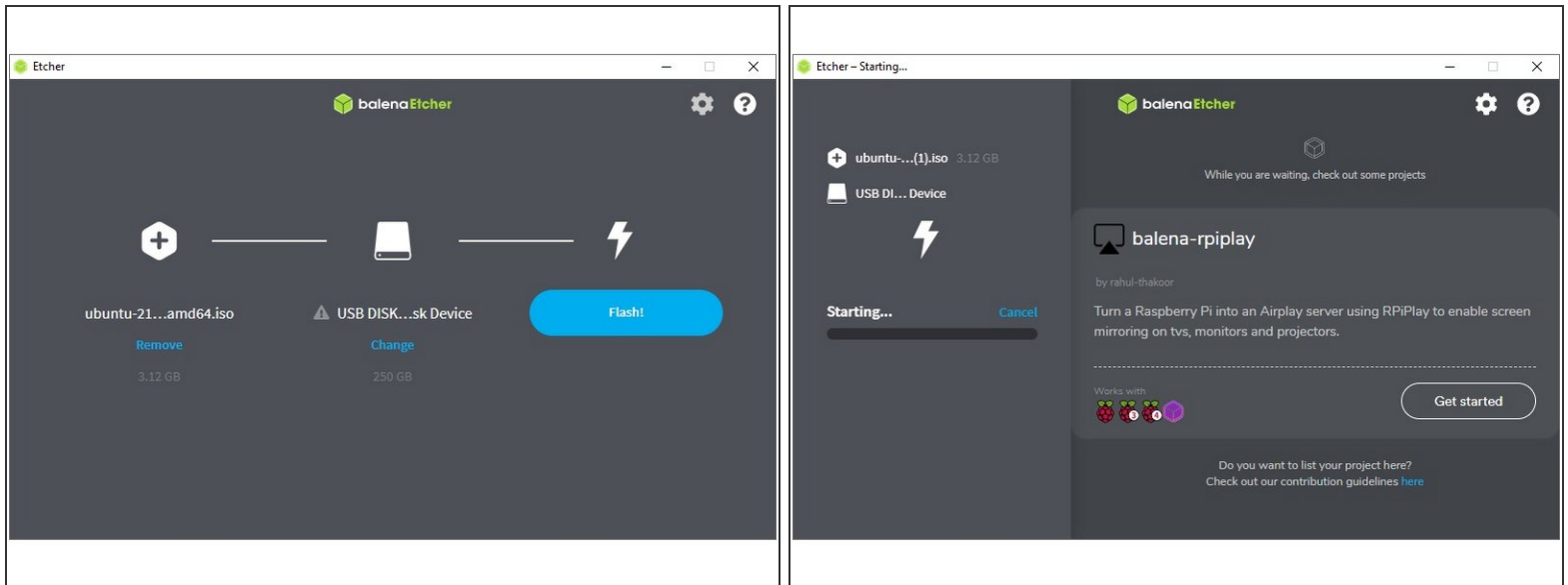
**NOTE:** This is an [Officially Supported Linux Distribution](#). [Learn more here](#).



### PARTS:

- [Storage Expansion Card](#) (1)
-

## Step 1 — Preparing Ubuntu Installation Media



- First, download the latest [Ubuntu 22.04 LTS Desktop image](#) from Ubuntu's website. Ubuntu has a [detailed installation guide](#) that you can follow. We'll go through the steps in this Guide assuming you have a simple installation scenario of a fresh install on a blank drive.
- Download [balenaEtcher](#) as a tool to create the USB installer from the ISO. balenaEtcher is available for Windows, MacOS, and Linux. You can either install it or download the portable version that runs directly from the executable.
- Launch balenaEtcher. Insert your USB drive (8GB or larger). Click on "Flash from file" and select the ubuntu-22.04-desktop-amd64.iso that you downloaded. Click on "Select target" and choose your USB drive. Click "Flash" and wait a minute or two for it to complete.
- Once the USB drive creation is complete, you can close balenaEtcher and eject the USB drive from your OS.

## Step 2 — Running Ubuntu



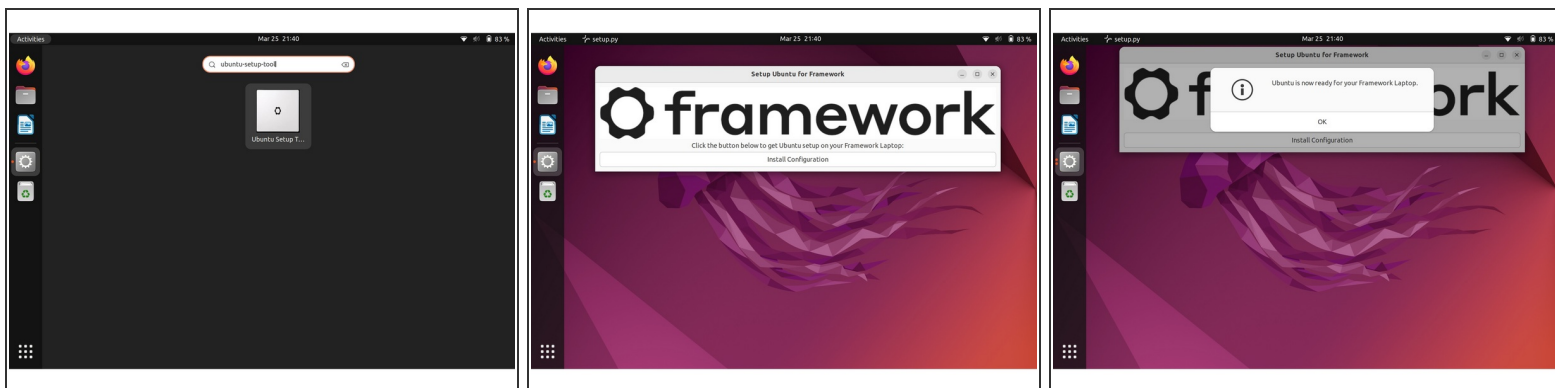
- Insert the USB drive into your powered off Framework Laptop, and then power on. If you have an existing OS installed on the Storage drive in your laptop, you'll need to tap F12 as you boot to bring up the Boot Manager screen. You can then select the "Linpus lite" item with your arrow keys and hit Enter.
- ① If you don't have an internal storage drive installed or it is blank, the laptop will boot to the USB drive directly.
- Hit Enter again to boot into Ubuntu.
- After a few seconds, you're in! If you just want to try Ubuntu out, you can click on the Try Ubuntu button and browse through the live USB version of it without touching the internal storage drive. If you do want to install Ubuntu to the internal storage drive, go on to the next step.

## Step 3 — Installing Ubuntu to a drive



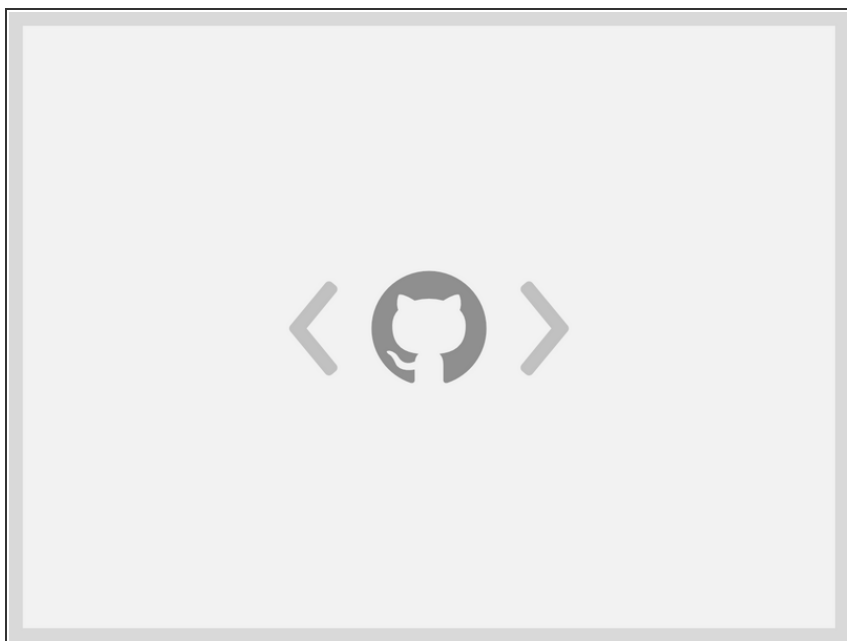
- Click on the Install Ubuntu button.
- Select the keyboard language you'd like to use. On the next screen, connect to your WiFi network if available. On the "Updates and other software" screen, you can keep the default selections or optionally also check the "Install third-party software" box, and click Continue.
- On the "Installation type" screen, you may have a range of options available if there is already an OS on your internal drive. For the purposes of this guide, we're assuming a clean install with the "Erase disk and install Ubuntu" option. For the other advanced options around dual booting, you can follow [Ubuntu's guide](#). Click continue.
- Select your internal drive if it isn't selected, and click Install Now. Follow the on-screen instructions to select your time zone and set up your user account. After installation completes, click Restart Now.

## Step 4 — Automatically Completing Setup - 12th Gen Only



- Download [this Ubuntu software package](#) to do the following for your **12th Gen Framework**:
- This package is best suited for those who do not wish to follow the next step of steps and do the following manually - this will get your Ubuntu where it needs to be automatically. Install, run the software, then reboot. Just run **ubuntu-setup-tool** from Activities.
- This software ensures your wi-fi, brightness keys, headphone jack, Wayland fractional scaling, and nvme power saving runs smoothly. This also installs a NEW recommended OEM kernel.


## Step 5 — Manually Completing Setup - 12th Gen Only




★ **This is for 12th Gen ONLY. Copy the entire text block provided in the gist embed on the left, paste into the terminal, press enter and type your user's password as prompted. 11th Gen users, go to Step 5. Text to paste is labeled under \*\*\*\*\*COPY AND PASTE THIS CODE BELOW\*\*\*\*\***

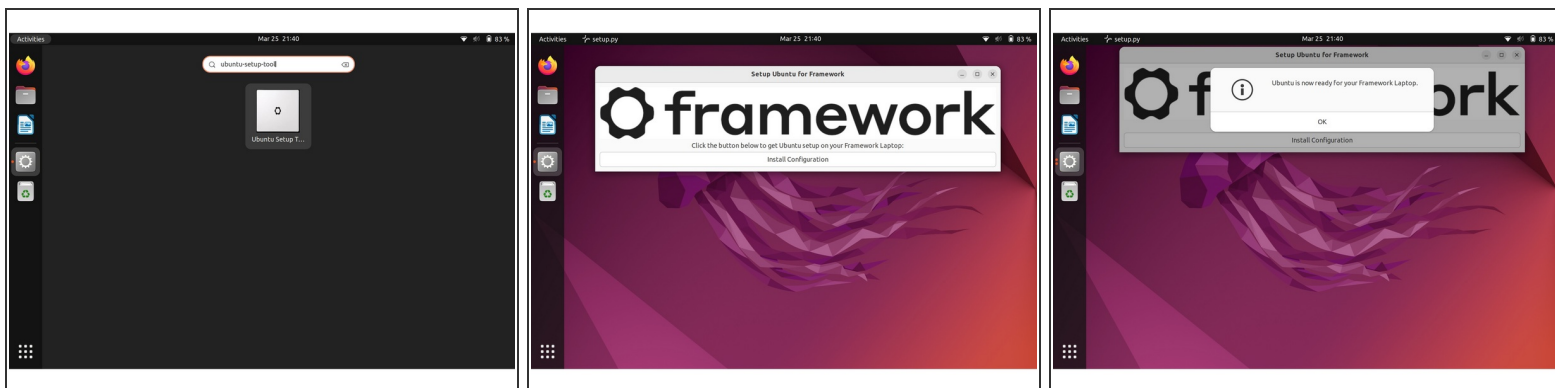
i The gist embed on the left will provide your Ubuntu installation with the following:

- Install the recommended OEM kernel and Wi-Fi power saving correction to prevent drop-offs.
- Provide a workaround needed (SN750 for example) to get the best suspend battery life for SSD power drain.
- Disable the ALS sensor (Ambient Light Sensor) so that your brightness keys work.
- Enable fractional scaling for Ubuntu and Enable headset mic input.

 Details on gaining additional battery life and getting sudo working with the fingerprint reader are available in the embed gist on the left.

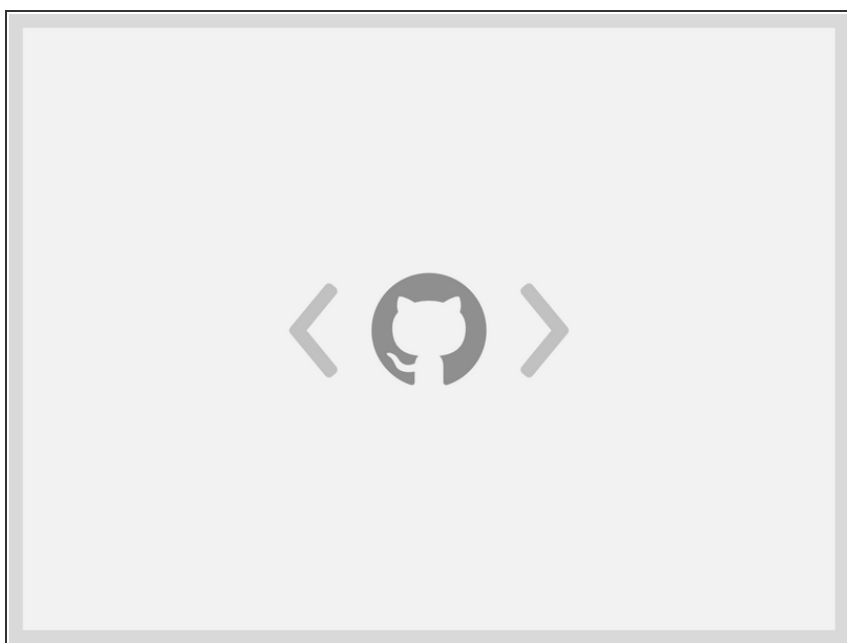
 After installing your OS, we recommend updating to the latest firmware ([12th Gen Intel Core](#)) to make sure the laptop is running at optimal performance and stability.

## Step 6 — Automatically Completing Setup - 11th Gen Only



- Download [this Ubuntu software package](#) to do the following for your **11th Gen Framework**:
- This package is best suited for those who do not wish to follow the next step of steps and do the following manually - this will get your Ubuntu where it needs to be automatically. Install, run the software, then reboot. Just run **ubuntu-setup-tool** from Activities.
- This software ensures your wi-fi, headphone jack, Wayland fractional scaling, and nvme power saving runs smoothly. This also installs the recommended OEM kernel.

## Step 7 — Manually Completing Setup - 11th Gen Only



- **This is for 11th Gen ONLY. Copy the entire text block provided in the gist embed on the left, paste into the terminal, press enter and type your user's password as prompted.** Text to paste is labeled under **\*\*\*\*\*COPY AND PASTE THIS CODE BELOW\*\*\*\*\***
- ① The gist embed on the left will provide your Ubuntu installation with the following:



- Install the recommended OEM kernel and Wi-Fi power saving correction to prevent drop-offs.
  - Provide a workaround needed (SN750 for example) to get the best suspend battery life for SSD power drain.
  - Enable fractional scaling for Ubuntu and Enable headset mic input.
- ⓘ Details on gaining additional battery life and getting sudo working with the fingerprint reader are available in the embed gist on the left.

⚠ After installing your OS, we recommend updating to the latest firmware ([11th Gen Intel Core](#)) to make sure the laptop is running at optimal performance and stability.

## Step 8 — Troubleshooting Ubuntu 22.04

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### Ubuntu General Troubleshooting

January 20 2023 3:05pm • Est. Read Time: 5 MIN

Framework has done a lot of work to ensure Ubuntu works upon installation with 11th and 12th-generation Framework laptops. Some things can be done to make the day-to-day usage experience smoother. We have guides for [Ubuntu 22.04](#) and [Ubuntu 22.10](#). It's also highly recommended you read [our Linux user's expectations guide](#). Tips like using TimeShift and locking down updates to Security updates can prevent or at least allow you to sidestep common Ubuntu challenges that can happen with Ubuntu updates introducing potential regressions.

This article will present you with proven techniques for troubleshooting some of the most common Ubuntu issues. And for anything that does not appear in this article, you will be ready to ask for help by providing all the needed details our community members would need to provide assistance.

- Expecting two-finger right clicking and need help? [The touchpad help guide](#) is here.
- Please visit our [troubleshooting guide](#) first.
- If you need additional help, feel free to visit our [active support community](#).

Enjoy using Ubuntu on your Framework Laptop! If you have any questions or run into any issues, we recommend bringing them to the Community in the [Ubuntu 22.04 topic](#). Members of the Framework team participate in discussions there.