Ubuntu 24.04 LTS Installation on the Pre-Built and DIY Framework Laptop 13 Pro

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Written By: Matt Hartley



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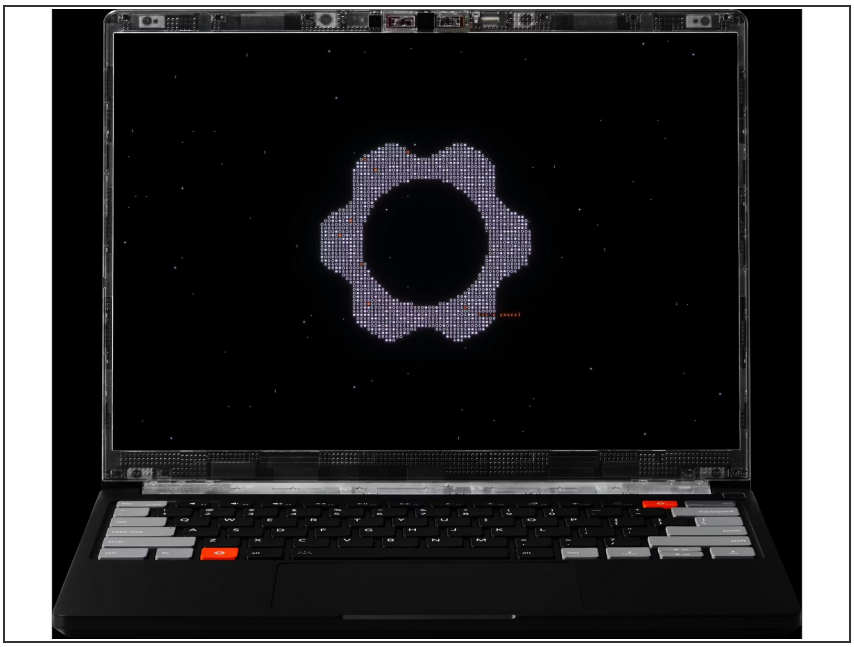
INTRODUCTION

Once you have your Framework Laptop 13 Pro set up following the Quick Start Guide, you're ready to install your preferred OS. The Ubuntu 24.04 LTS OEM ISO works fantastically well. **NOTE: This Ubuntu OEM image is certified for Framework Laptop 13 Pro (Intel® Core™ Ultra Series 3) . The standard Ubuntu 24.04 images will fail to provide graphics and Wi-Fi support.**

PARTS:

- Storage Expansion Card (1)

Step 1 — Ubuntu 24.04 OEM guide



⚠ This guide is for the Ubuntu 24.04 Pre-Built model or DIY model - to run 24.04, you must use the OEM ISO. This guide provides for that ISO. For regular Ubuntu guides, please check here.

ⓘ **Pre-Built** ships with an OEM image of Ubuntu 24.04 already installed.

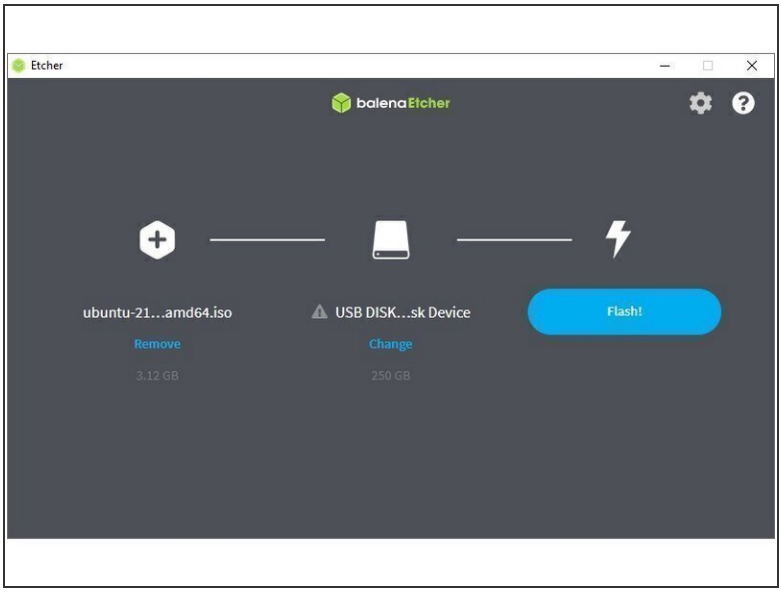
- First boot: power on, you will see a fairly fast memory training screen, followed by the Framework splash screen.
- You will land on the Welcome Screen with instructions at Step 6.
  - ⚠ If you are **reinstalling** the Ubuntu 24.04 OEM image to your pre-built, follow the DIY instructions below.

ⓘ **DIY** ships with *no OS installed* — you will write the OEM image to a USB drive and install it. Follow the MacOS and Windows instructions below to create the USB key installer.

- First boot: power on, you will see a fairly fast memory training screen, followed by the Framework splash screen.
- You will then be presented with the screen shown in Step 5, please follow the steps there.

Step 2 — (From macOS) Preparing USB Ubuntu Installation Media





⚠ This process will delete all data from the flash drive being used! Ensure any important data that may be kept on those drives is backed up before continuing.

- First, download Ubuntu 24.04 Desktop OEM image from Framework's website using this direct link. You will also want to download the checksum to the same directory, as well. We'll go through the steps in this Guide assuming you have a simple installation scenario of a fresh install on a blank drive.

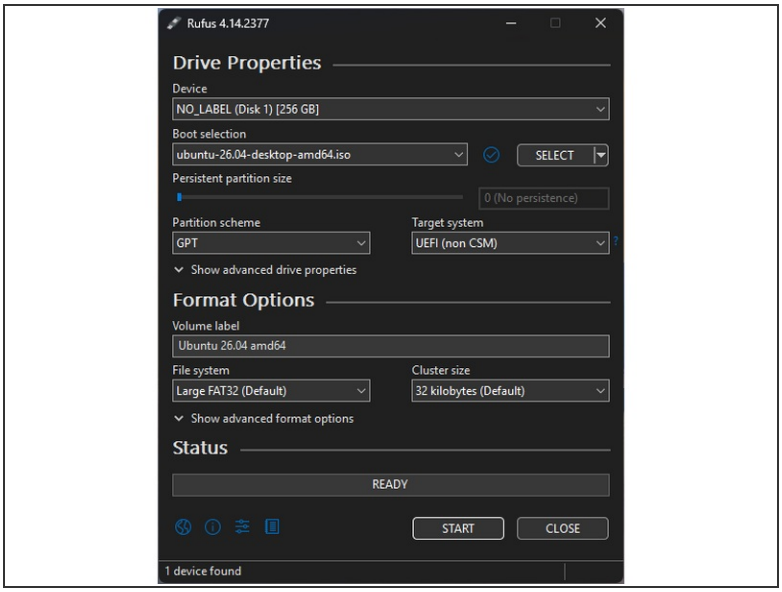
  ⓘ Verify before installing: | 1. Save the .iso and .sha256sum files in the same folder | 2. Open a terminal there and run: **sha256sum --ignore-missing -c *.sha256sum** | 3. Confirm it prints "OK" next to the filename | If it says FAILED or "No such file," re-download the ISO before installing.

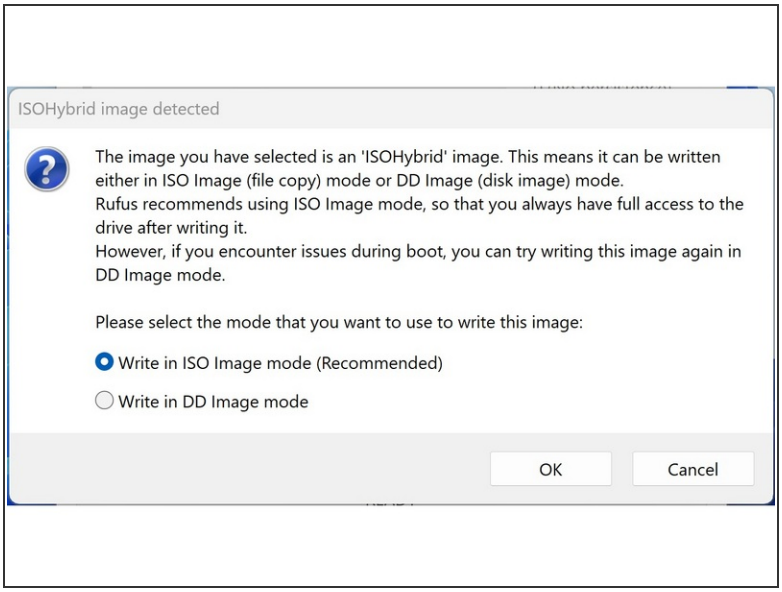
- Download balenaEtcher as a tool to create the USB installer from the ISO. balenaEtcher is available for MacOS. Install it.

- Launch balenaEtcher. Insert your USB drive (8GB or larger). Click on "Flash from file" and select the OEM 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 3 — (From Windows) Preparing USB Ubuntu Installation Media





⚠ This process will delete all data from the flash drive being used! Ensure any important data that may be kept on those drives is backed up before continuing.

- First, download Ubuntu 24.04 Desktop OEM image from Framework's website using this direct link. You will also want to download the checksum to the same directory, as well. We'll go through the steps in this Guide assuming you have a simple installation scenario of a fresh install on a blank drive.

  ⓘ Verify before installing: | 1. Save the .iso and .sha256sum files in the same folder | 2. Open a terminal there and run: **sha256sum --ignore-missing -c *.sha256sum** | 3. Confirm it prints "OK" next to the filename | If it says FAILED or "No such file," re-download the ISO before installing.

- Download Rufus as a tool to create the USB installer from the ISO. The first item in this list will be a link to install installer for the latest version. Install Rufus using this.

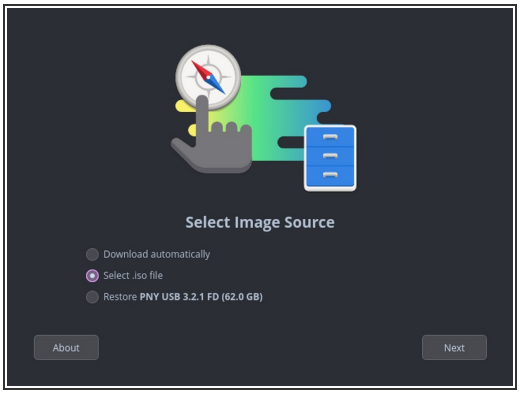
- Open Rufus, from the Device drop-down, select the USB flash drive stick.

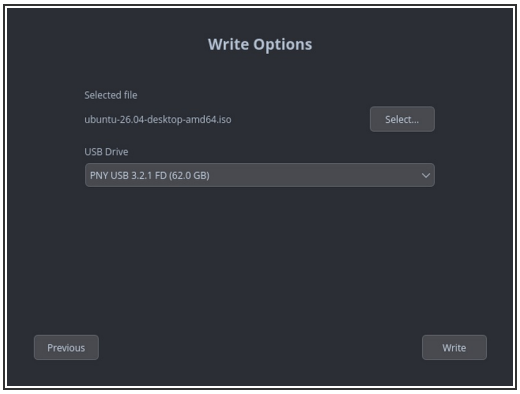
  ⚠ In order to use devices like external hard drives, external solid state drives, or the Framework Storage Expansion Card to create a live USB, List USB Hard Drives must be enabled under Show advanced drive properties.

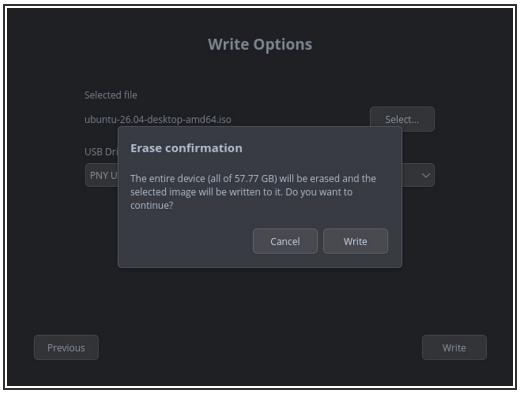
⚠ Use the Select Button next to Boot selection to choose the downloaded Ubuntu ISO. Set Partition scheme to GPT to ensure the live USB is properly recognized at boot.

- Click Start. A window will pop up to prompt for a choice between dd image mode and ISOHybrid image mode. Select ISOHybrid image mode then OK.

Step 4 — (From Linux) Preparing USB Ubuntu Installation Media

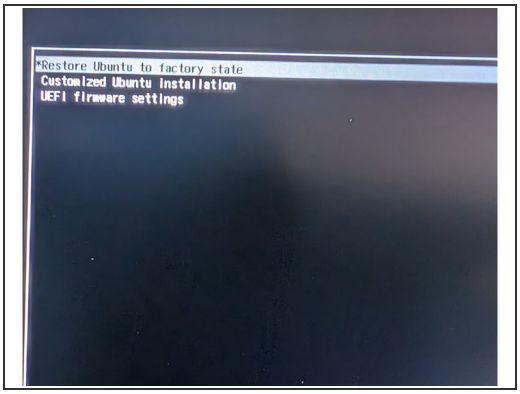




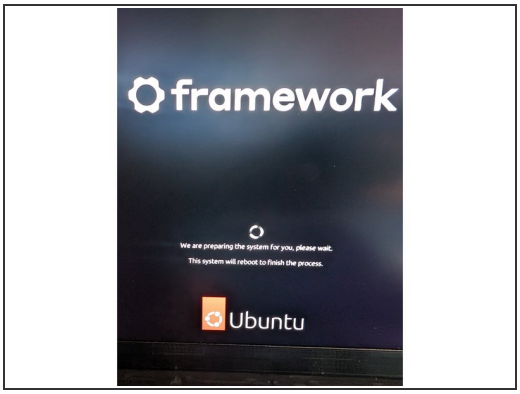


- First, download Ubuntu 24.04 Desktop OEM image from Framework's website using this direct link. You will also want to download the checksum to the same directory, as well. We'll go through the steps in this Guide assuming you have a simple installation scenario of a fresh install on a blank drive.
- **Fedora:** Media Writer is already installed on Workstation, so just launch it from the app menu. *Meaning, you are creating Ubuntu USB install media, but creating the media from a Fedora installation elsewhere*.
- **Other distro, Flatpak installed:** Run flatpak install flathub org.fedoraproject.MediaWriter, then launch it from the app menu or with flatpak run org.fedoraproject.MediaWriter.
- **Other distro, no Flatpak** (like Ubuntu being used for USB media creation): Install Flatpak and add Flathub per https://flathub.org/setup
- Insert an 8 GB+ USB key. Back up its contents first, since this erases the entire drive.
- Open Fedora Media Writer, choose **Select .iso file**, and pick the Ubuntu 24.04 Desktop ISO you downloaded.
- Select your USB drive from the device list, double-checking the name and size so you don't wipe the wrong disk.
- **Click Write**, enter your password if prompted, wait for it to finish, then **click Finish** and safely eject the USB.

Step 5 — First boot and Installation (USB Drive Installer)

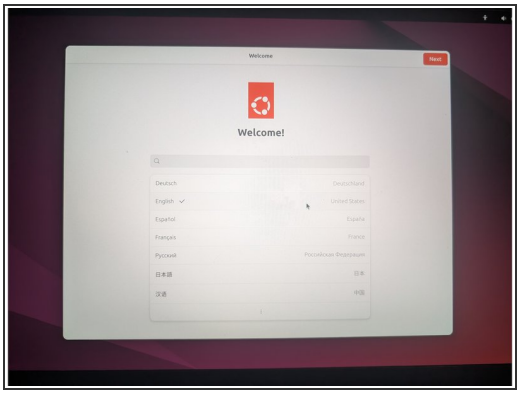


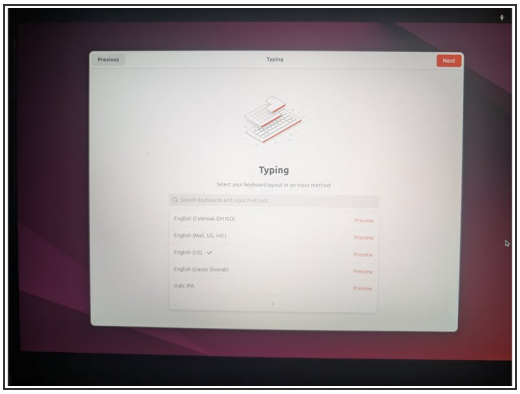


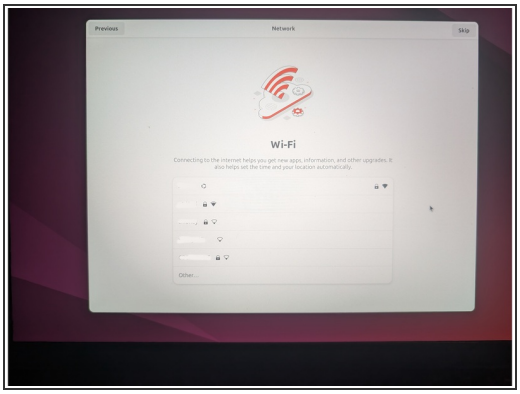


- Insert the USB drive, power on the laptop, and tap F12 at the Framework splash screen to select the USB drive.
- You will land on the menu shown in the first image. Select the Restore Ubuntu to factory state option.
- Once booted into the GUI installation screen as shown, select the Install button.
- Installer runs as normal, shows a slide show as it installs. When it is completed, it will reboot on its own.
- Next you will be presented with a black screen indicating "**We are preparing your system for you**" screen. It will **reboot** on its own when completed.

Step 6 — Welcome Screen

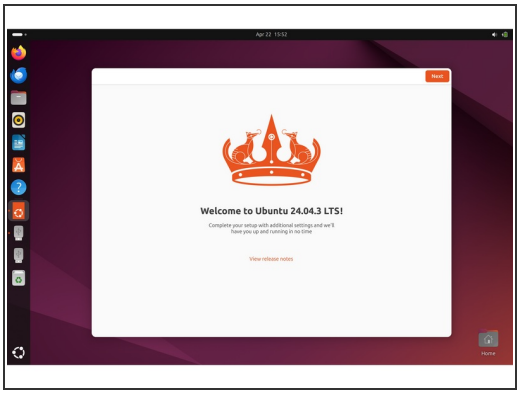




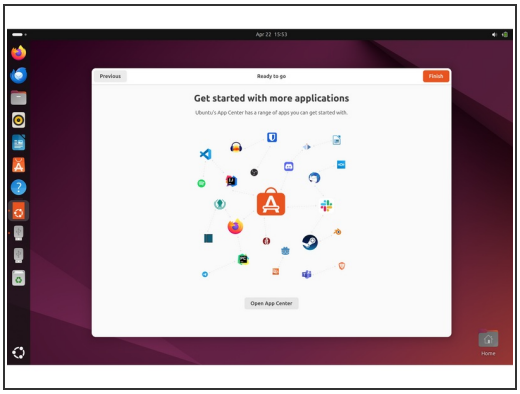


- Ubuntu will greet you with this welcome screen.
- Select your appropriate system language. Click next.
- Now select your typing language. Click next.
- Now you will be asked if you would like to connect to Wi-Fi. Connect.
- Finally, you will be presented with the "All Done" screen.

Step 7 — Welcome Screen Cont.

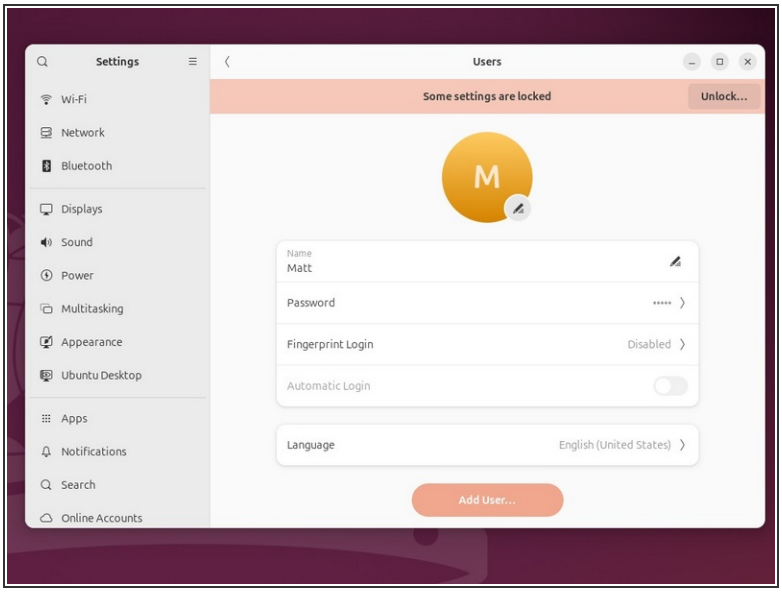


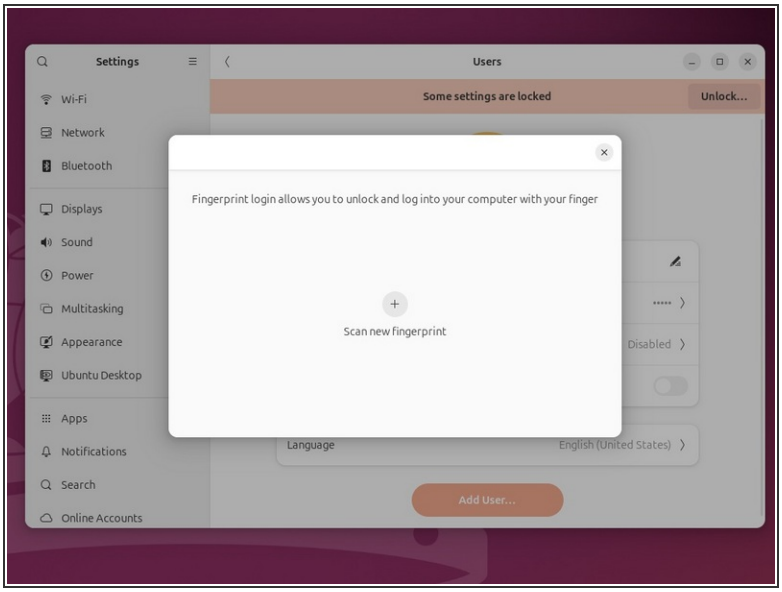




- The next welcome screen provides you with a link to release notes. Click next.
- Ubuntu Pro enable screen. If you would like to enroll, please do so from here. If not, click skip.
- Decide if you want to help improve Ubuntu by sending error reports back to them. Click next.
- Finish Screen. Here you may either open the application center or click the Finish button.

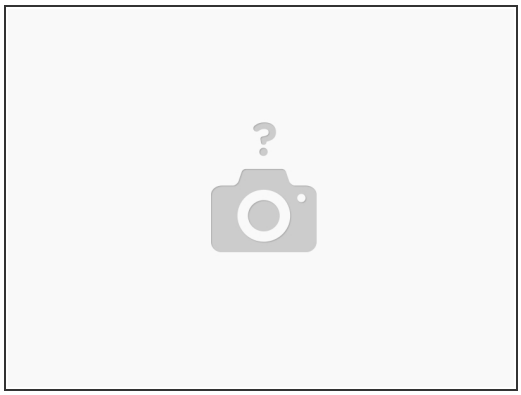
Step 8 — Installing Ubuntu (Fingerprint Login)





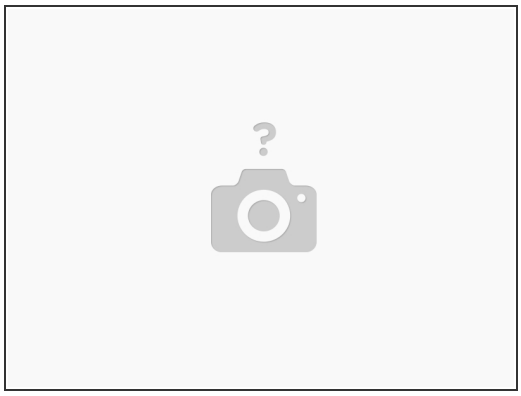
- Let's set up fingerprint login. Click on the horizontal bar in the upper left, search for user.
- Choose Fingerprint Login. Then select Scan new fingerprint. Select your desired fingerprint. Carefully tap your finger tip on the sensor (power button). You may need to try a few attempts as everyone's prints are different.
- Once it's successful, you will see the word Complete.
- If you're experiencing issues getting your fingerprint reader working, please follow our help guide to get your reader working for you on Ubuntu.

Step 9 — Completing Setup



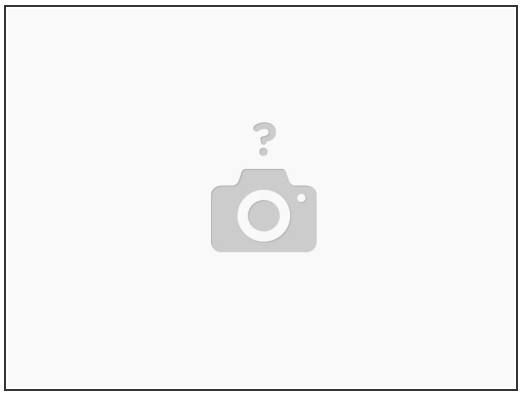
- We're almost done. Please follow the link to your Intel® Core™ Ultra Series 3 Framework Laptop 13 Pro.
  - Click here for the completion guide for **Intel Core Ultra Series 3**
  - AMD Ryzen 300 Series, we recommend Ubuntu 26.04
- Our recommendations for Optimizing Ubuntu Battery Life. This includes **important** expansion card behavior.

Step 10 — Recommended: Updating to the latest firmware



- How to check the BIOS version. Go to and click upper left corner where you see the horizontal line, search terminal and launch it. Please follow this link to copy and paste the code into your terminal, then press enter.
  - ⚠ If you have Framework Laptop 13 Pro Intel Core Ultra Series 3, you can check here for the latest firmware.

Step 11 — Troubleshooting Ubuntu 24.04



- 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 13 Pro! If you have any questions or run into any issues, we recommend bringing them to the Community in the Ubuntu 24.04 topic. Members of the Framework team participate in discussions there.