# Fedora 43 Installation on the Framework Laptop 13

How to install Fedora 43 Linux on a Framework Laptop 13.

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## INTRODUCTION

Once you have your Framework Laptop 13 set up following the Quick Start Guide, you're ready to install your preferred OS. The Framework Laptop 13 is running some very recent hardware, and we've worked with the team at Fedora to improve support. Fedora 43 is one of the Linux distributions we recommend, as it has full hardware support with very little setup required, and it offers a great user experience overall.

One note on Fedora is that the distro follows a fairly aggressive update policy on new kernels. This means that if you have the most recent generation of hardware, there is a higher risk that a kernel update could have a driver regression. On older platforms, this is less of a risk. To avoid this risk altogether, you can use a more conservative distro like Ubuntu LTS.

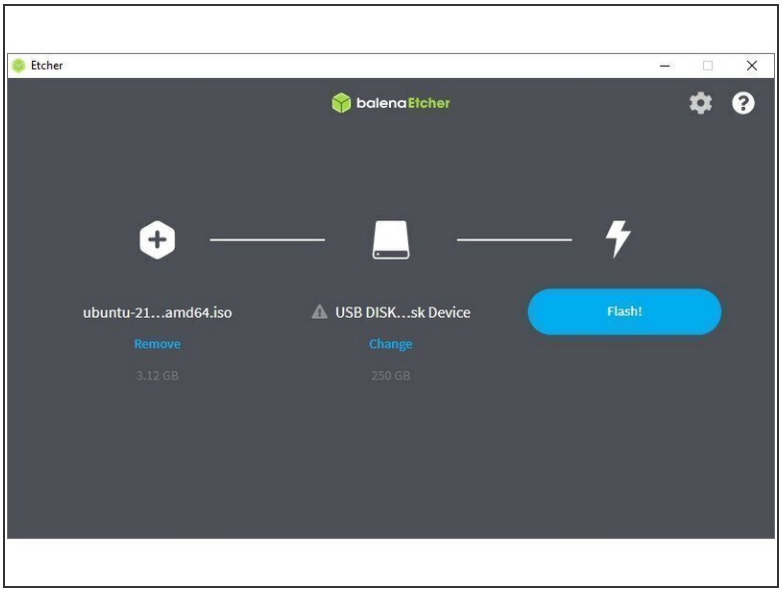
This is an Officially Supported Linux Distribution. Learn more here.

## PARTS:

- Storage Expansion Card (1)

## Step 1 — (From macOS) Preparing USB Fedora Installation Media



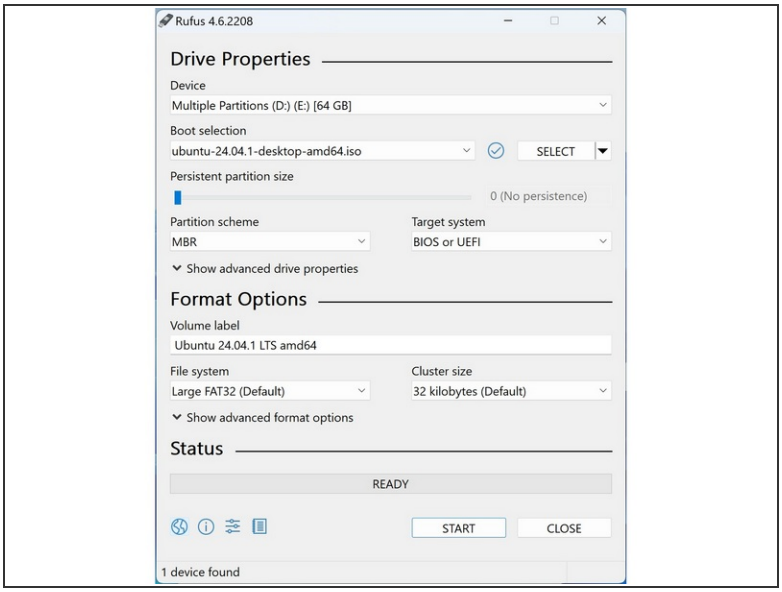

- First, download the latest Fedora release from the Fedora website. We'll go through the steps in this Guide assuming you have a simple installation scenario of a fresh install on a blank drive.
- Download balenaEtcher as a tool to create the USB installer from the ISO. balenaEtcher is available for MacOS. Install it.

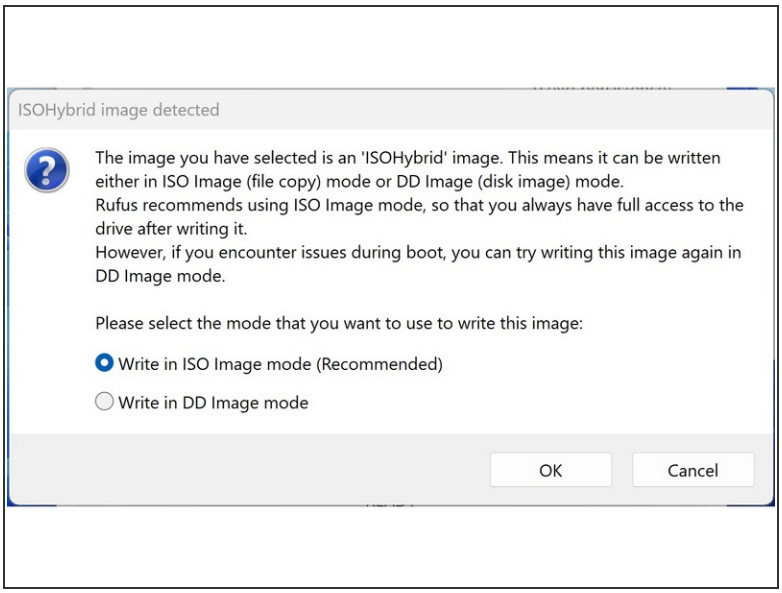
  ⚠ **If upgrading from Fedora 42**, we recommend backing up your home directory and doing a clean installation. If you decide you prefer to upgrade from 42, make absolutely sure your 42 installation is fully up to date first. Should you wish to instead, the DNF System Plugin method remains an option.

  ⚠ **Current Upgrade Bugs**: Additionally, there are some upgrade notes to be aware of. Systems with WINE installed cannot be updated and Systems with <=1 GB /boot partition may see "need more space" error during system update. See links for workarounds.

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



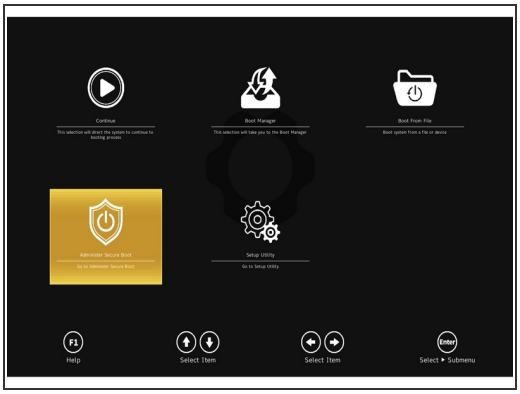

- First, download the latest Fedora release from the Fedora website. This guide will walk through installing Fedora by automatically using an entire disk.
- Download Rufus as a tool to create the USB installer from the ISO. The first item in this list will be a link to install installer for the latest version. Install Rufus using this. Open Rufus, from the Device drop-down, select the USB flash drive stick.

  ⚠ **If upgrading from Fedora 42**, we recommend backing up your home directory and doing a clean installation. If you decide you prefer to upgrade from 42, make absolutely sure your 42 installation is fully up to date first.

  ⚠ **Current Upgrade Bugs**: Additionally, there are some upgrade notes to be aware of. Systems with WINE installed cannot be updated and Systems with <=1 GB /boot partition may see "need more space" error during system update. See links for workarounds. Clean installs will be the easiest path for some.

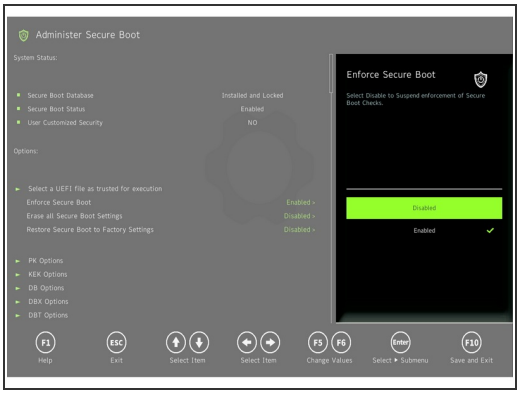
- Launch Rufus. Insert your USB drive (8GB or larger). Click on "Flash from file" and select the Fedora iso that you downloaded. Click on "SELECT" and choose your USB drive. Click "START" and wait a minute or two for it to complete.

## Step 3 — Secure Boot










⚠ Fedora works with Secure Boot out of the box. Fedora Live USBs will boot regardless of whether or not it is disabled. Users who intend to dual-boot with Windows should not disable Secure Boot!

ⓘ If a user has a reason to disable Secure Boot, such as specialized third party devices that require unsigned drivers:

- Boot into BIOS by tapping F2 just before the Framework splash screen.
- Arrow down to Administer Secure Boot. Press enter.
- Arrow down to Enforce Secure Boot. Press enter, select Disabled, and press enter.
- Press F10 to save and reboot. With Yes selected, press Enter.

To enable Secure Boot again, repeat the above steps but select Enable this time.

## Step 4 — Booting to Live Fedora USB




- Boot to Fedora Live USB: Insert the USB drive into the powered-off machine, then power it on.

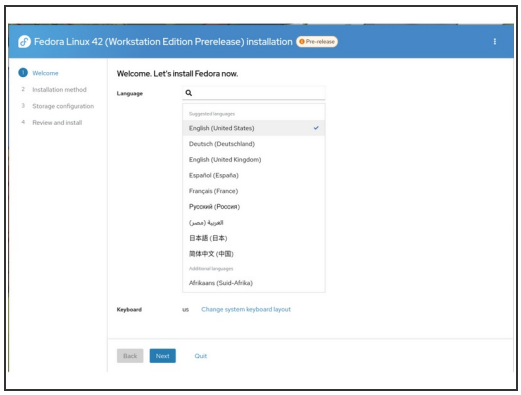
ⓘ If an OS is already installed, immediately begin tapping F12 as soon as the power light comes on. Start tapping before the Framework logo appears.

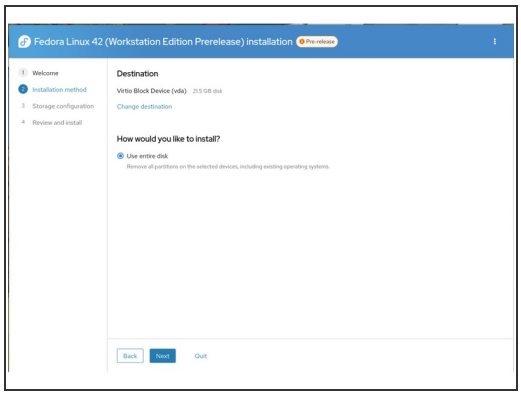
- At the Boot Option Menu, use arrow keys to select your USB drive (shown as "EFI USB Device (USB Disk)" or similar) and press Enter. On the black GRUB menu, confirm "Try or Install Ubuntu" is highlighted and press Enter.

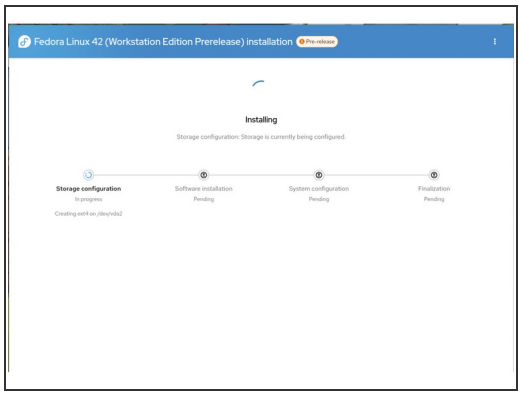
⚠ If Windows is currently installed, trying to boot a Linux Live USB can result in the "Device is Active" error. This will provide guidance to overcome this error.

- Next select Start Fedora Workstation-Live 43. Hit the enter key.
- The installer will start automatically after some time. How long depends on the speed of the USB drive.

## Step 5 — Installing Fedora to a drive




- Select the keyboard language you'd like to use. On the next screen, click on the Installation Destination button to choose the disk. Note that you can install Fedora onto a USB drive or a Storage Expansion Card as an alternative to installing it onto your internal drive.

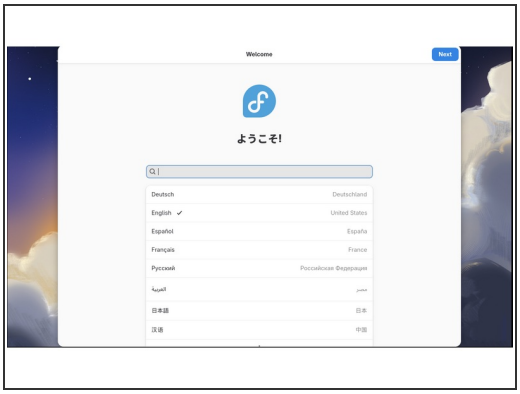
  ⓘ If there is an OS already installed on the target drive, you'll need to follow the guided steps in the installer to resize partitions or delete the existing partitions. This is out of scope of this guide, but Fedora has very detailed documentation: https://docs.fedoraproject.org/en-US/qui...

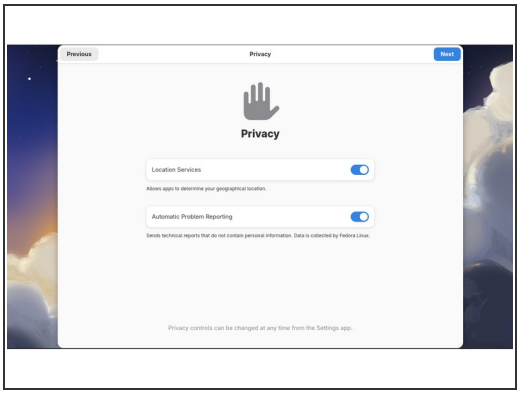
  ⚠ Important for non-US keyboard users! Please open this link in a new tab and read carefully.

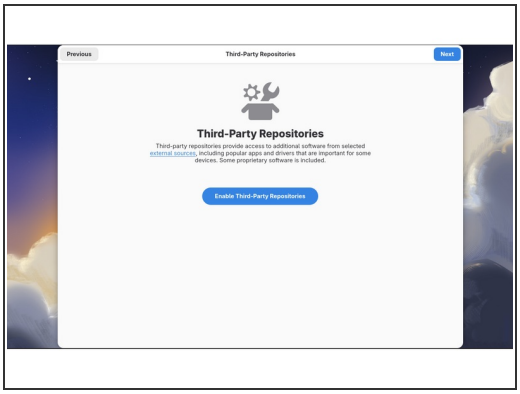
- Click Finish Installation and then reboot into your new Fedora install!

  ⓘ The installer will close the window, but not reboot. You can click on the power icon in the top right, click Power Off / Log Out, and click Restart.

## Step 6 — Welcome to Fedora Screen - Setting Up

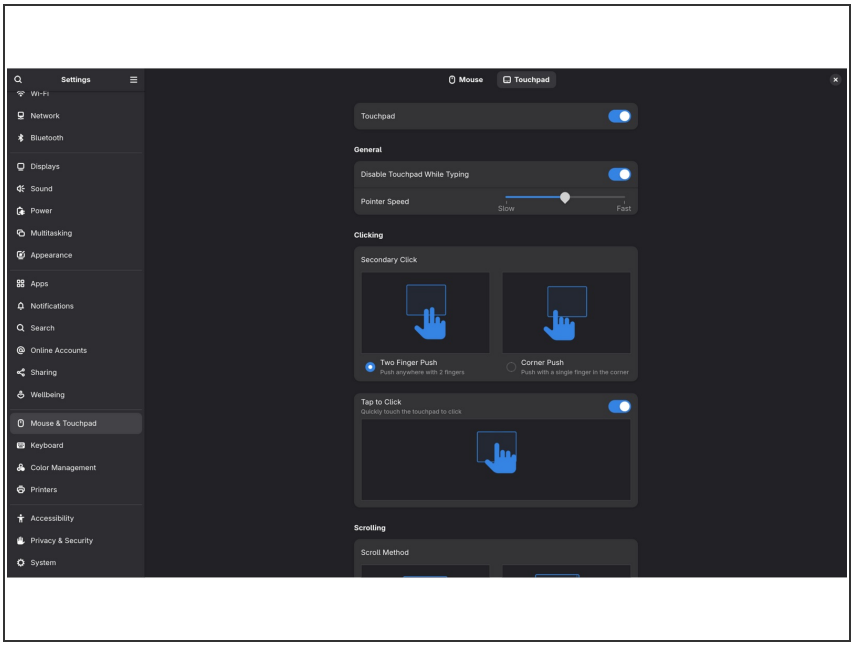



- Click on preferred language, again for your preferred keyboard. This begins the process of completing the initial setup of your Fedora installation.
- Connect to Wi-Fi or Skip. If you wish not to connect to wireless just yet, you can skip this and return to connecting to Wi-Fi later on.
- Choose your Privacy settings. Here you can decide if you would like to allow Location Services using Mozilla Location Service or not.
- Click on Enable Third-Party Repositories. Unless you have a specific reason for not doing so, it's recommended that these repositories are enabled for access to additional drivers and applications.
- Setup your user account. And then your user password.

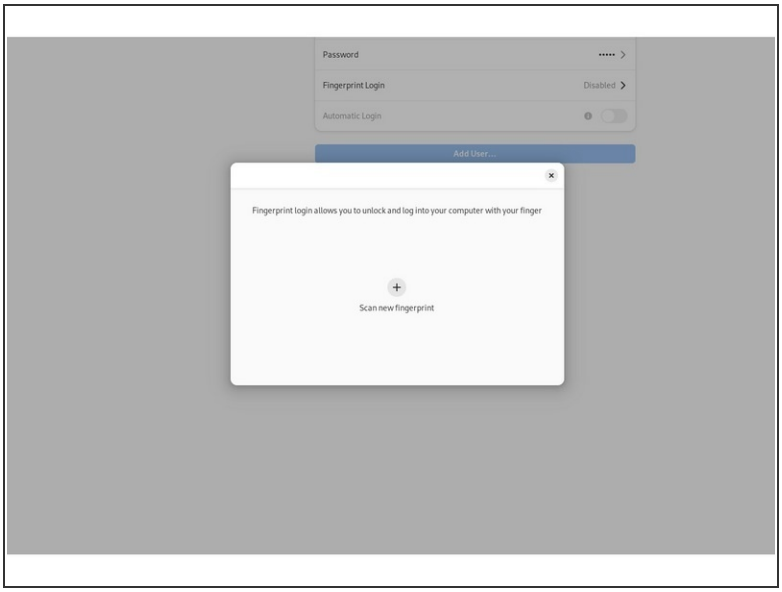
## Step 7 — Touchpad Settings

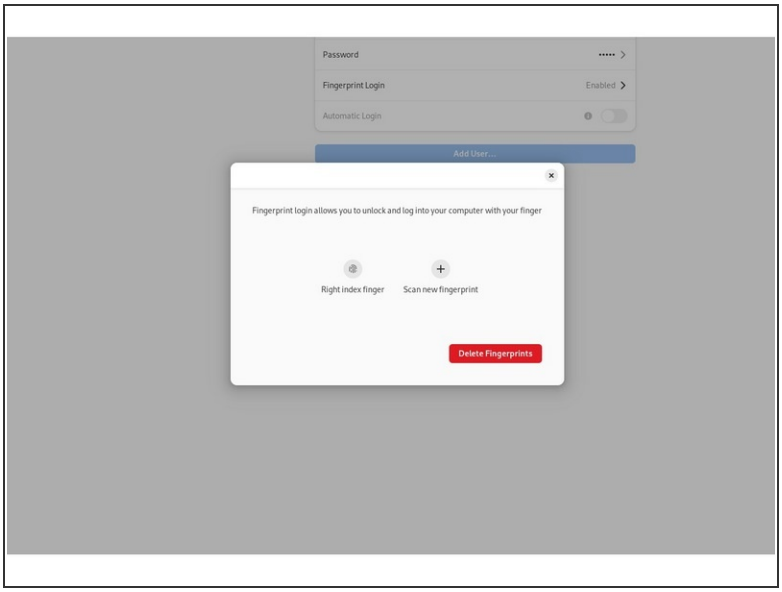



To configure the touchpad to meet your needs:

- Go to Settings>Mouse and Touchpad.
- Select the Touchpad tile/button at the top of displayed window.
- There you can control Touchpad while typing behavior, pointer speed, secondary click options, tap to click, scrolling method, and scroll direction.

## Step 8 — Configure the fingerprint reader

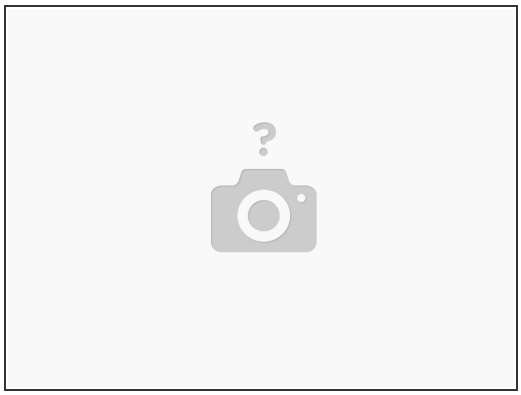



- Let's setup fingerprint login. Click on Activities, search for user.
- Choose Fingerprint Login. Then select Scan new fingerprint. Select your desired fingerprint. Carefully tap your finger tip on the sensor (power button). You may need to try a few attempts as everyone's prints are different.
- Once 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 Fedora.

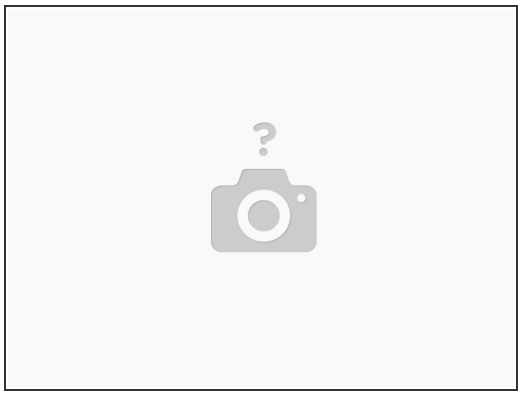
## Step 9 — Completing Setup



- We're almost done. Please follow the links to your individual Framework Laptop 13 model
  - Click here for the completion guide for 13th Gen Intel Core.
  - Click here for the completion guide for 12th Gen Intel Core.
  - Click here for the completion guide for 11th Gen Intel Core.
  - Click here for the completion guide for AMD Ryzen 7040 Series.
  - Click here for the completion guide for Intel Core Ultra Series 1.
  - Click here for the completion guide for AMD Ryzen AI 300 Series.

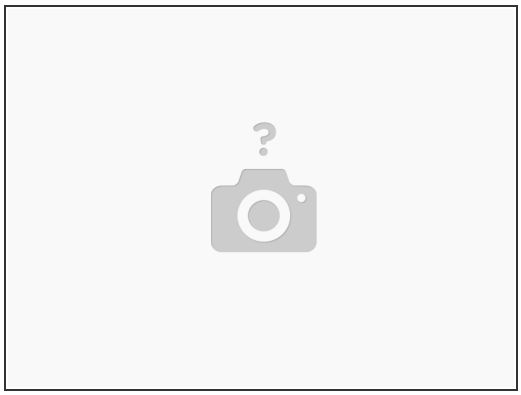
⚠ Our recommendations for Optimizing Fedora Battery Life. This includes **important** expansion card behavior. Need richer sound? We have collected suitable Easy Effects profiles to help.

## 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. The output will tell you which Framework Laptop 13 you have and also which BIOS version you're using.
  - ⚠ If you have Intel 13th Gen Intel Core, you can check here for the latest firmware.
  - ⚠ If you have Intel 12th Gen Intel Core, you can check here for the latest firmware.
  - ⚠ If you have Intel 11th Gen Intel Core, you can check here for the latest firmware.
  - ⚠ If you have AMD Ryzen 7040 Series, you can check here for the latest firmware.
  - ⚠ If you have Intel Core Ultra Series 1, you can check here for the latest firmware.
  - ⚠ If you have AMD Ryzen AI 300 Series, you can check here for the latest firmware.
    - ⚠ **IMPORTANT**: Per the instructions above, we do NOT recommend updating BIOS and firmware using various GUIs. We recommend using fwupdmgr as provided in the step above. Using GUIs can potentially create issues that would not be present using fwupdmgr directly.

## Step 11 — Fedora Troubleshooting



- Expecting different touchpad behavior? The touchpad help guide is here.
- Need help? Please visit our troubleshooting guide first.
- If you need additional help, feel free to visit our active support community.

Enjoy using Fedora on your Framework Laptop 13!