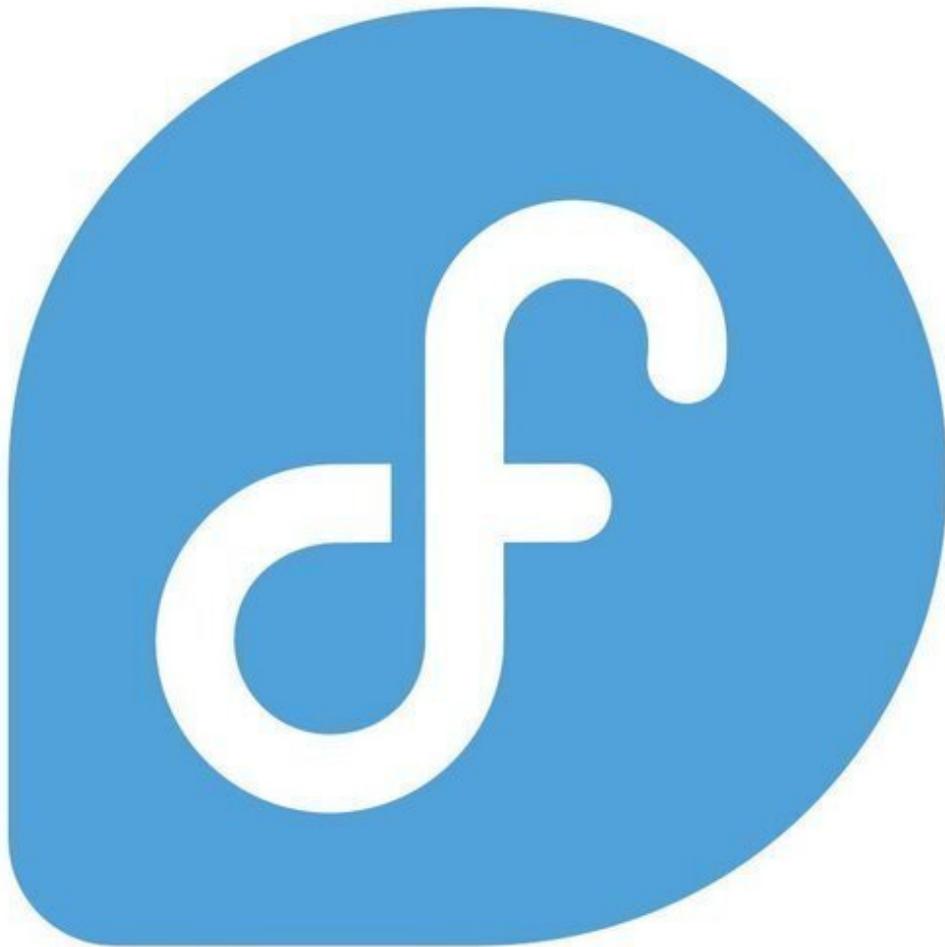




# Fedora 40 Installation on the Framework Laptop 13

How to install Fedora 40 Linux on a Framework Laptop 13.

Written By: Matt Hartley



## 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 40 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.

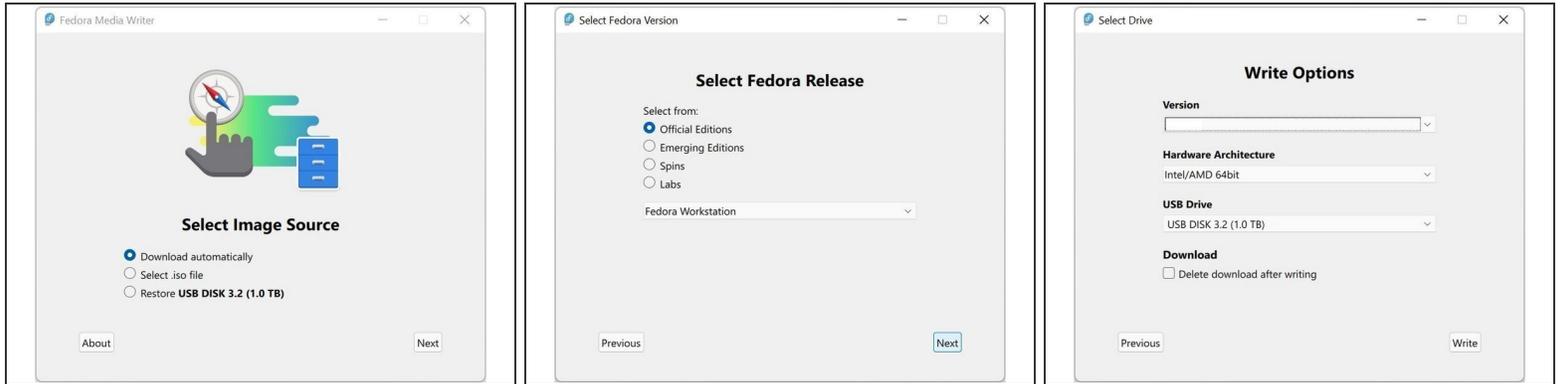
This is an [Officially Supported Linux Distribution](#). [Learn more here](#).



### PARTS:

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

## Step 1 — Fedora 40 Installation on the Framework Laptop 13



- Fedora has a fantastic tool called Fedora Media Writer to create USB installers. It's available for Windows, OS X, and Linux. For Windows and OS X, you can download it here: <https://fedoraproject.org/workstation/>
- ⓘ Fedora 40 is Prerelease at the time of this guide's creation with a release date of April 16, 2024. Install the pre-release and run [DNF updates](#) daily to make sure you're installation transitions into a proper release state smoothly.
- ⚠ **If upgrading from Fedora 39**, we recommend backing up [your home directory](#) and doing a clean installation. If you decide you prefer to [upgrade from 39](#), make absolutely sure your 39 installation is fully up to date first.
- ⓘ If you're coming from another Fedora install or Linux distro, you can install Fedora Media Writer following the steps here: <https://docs.fedoraproject.org/en-US/fed...>
- Insert your USB drive (2GB or larger). Note that it will be reformatted, so make sure you are ok with erasing any data that is on it.
- After installing Fedora Media Writer, run it. Click Next to go to the "Select Fedora Release" screen. We'll proceed with the Official Fedora Workstation release for this guide, but there are a range of other options available. Now click Next.
- The latest version of Fedora will be selected by default. Make sure the correct USB Drive is selected in the drop down, and then click Write.
- Once the USB drive creation is complete, you can click Finish, close Fedora Media Writer, eject your USB drive, and if you'd like to, delete the downloaded ISO file.

## Step 2 — Booting to Live Fedora USB



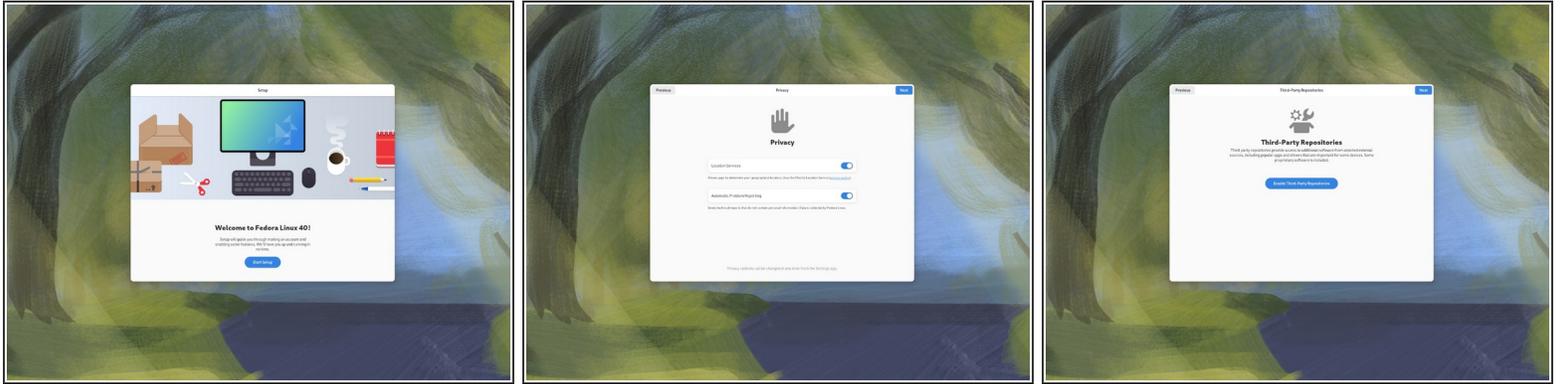
- Insert the USB drive into your powered off Framework Laptop 13, and then power on. If you have an existing OS installed on the Storage drive in your laptop, immediately after the power light comes on begin rapidly tapping (continuously ) the F12 key - you must begin tapping well before you see the Framework logo.
- Select Linpus lite (General UDisk) with your arrow keys. Enter key.
- Next select Start Fedora Workstation-Live 40. Hit the enter key.
- After a few seconds, you're in! If you just want to try Fedora out, you can click on the Try Fedora button and browse through the live USB version of it without touching the internal storage drive. If you do want to install Fedora to the internal storage drive, go on to the next step.

## Step 3 — Installing Fedora to a drive



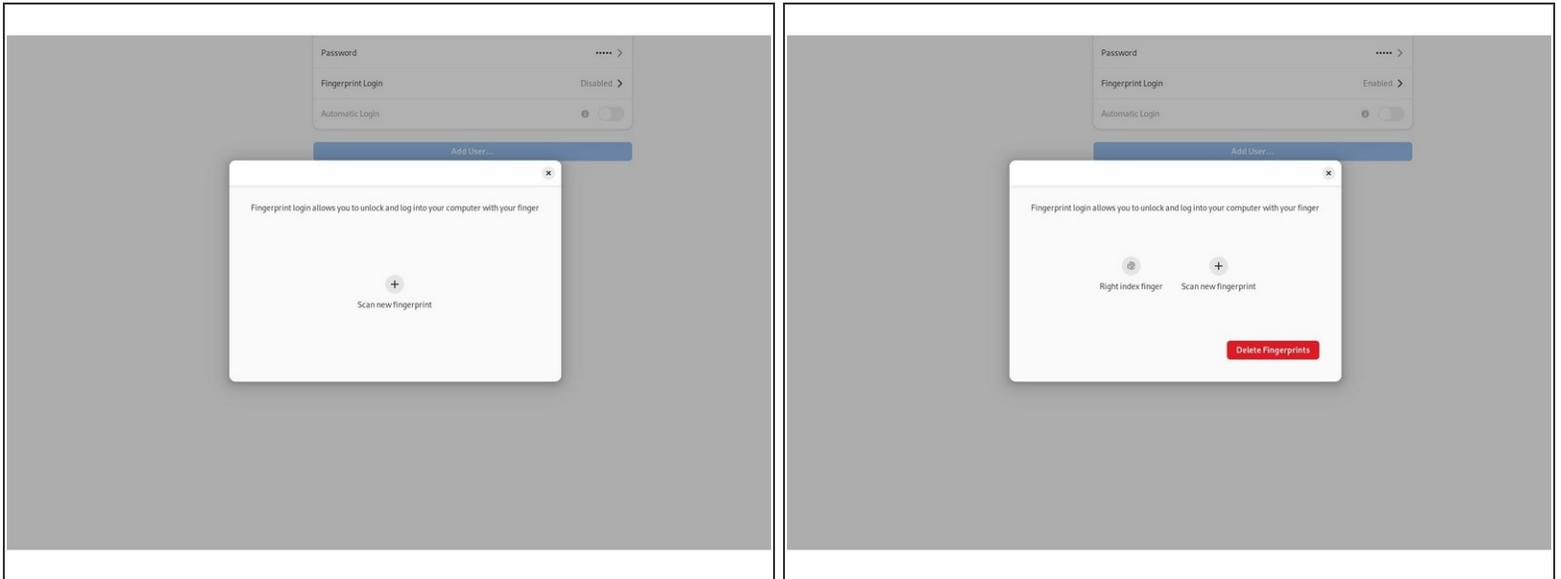
- Click on the Install Fedora button.
- Select the keyboard language you'd like to use. On the next screen, click on the Installation Destination button to choose the disk. Note that you can install Fedora onto a USB drive or a Storage Expansion Card as an alternative to installing it onto your internal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



- Click on Start Setup button. 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.
- Connect Online Accounts or Skip. Connect to Google, Nextcloud or Microsoft online accounts to access your email, calendar, contacts, documents and photos.

## Step 5 — 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.

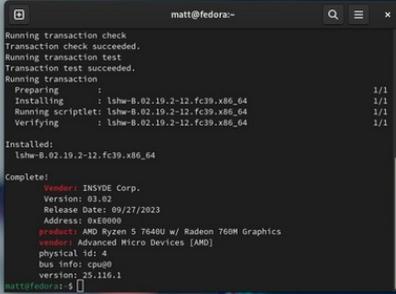
## Step 6 — Completing Setup

|  |  |  |
|--|--|--|
| <p><b>This is for 11th Gen Intel® Core™ Framework Laptop 13 ONLY</b></p> <p>This Fedora guide will assist with:</p> <ul style="list-style-type: none"> <li>Getting your laptop fully updated.</li> <li>Enable improved fractional scaling support Fedora's GNOME environment using Wayland.</li> <li>Enabling tap to click on the touchpad.</li> </ul> <p>Make sure to update your packages first</p> <pre>sudo dnf upgrade</pre> <p>Reboot</p> <p>If you want to enable fractional scaling on Walyland:</p> <pre>gsettings set org.gnome.mutter experimental-features "[scale-monitor-framebuffer]"</pre> <p>If you want to enable tap-to-click on the touchpad:</p> <ul style="list-style-type: none"> <li>Settings, Mouse and Touchpad</li> <li>Touchpad option at the top</li> <li>Under "Clicking", select Tap to Click and enable it.</li> </ul> | <p><b>This is for 12th Gen Intel® Core™ Framework Laptop 13 ONLY</b></p> <p>This Fedora guide will assist with:</p> <ul style="list-style-type: none"> <li>Getting your laptop fully updated.</li> <li>Enable improved fractional scaling support Fedora's GNOME environment using Wayland.</li> <li>Enabling tap to click on the touchpad.</li> <li>Enabling brightness keys.</li> </ul> <p>Make sure to update your packages first</p> <pre>sudo dnf upgrade</pre> <p>Reboot</p> <p>If you want to enable fractional scaling on Walyland:</p> <pre>gsettings set org.gnome.mutter experimental-features "[scale-monitor-framebuffer]"</pre> <p>If you want to enable tap-to-click on the touchpad:</p> <ul style="list-style-type: none"> <li>Settings, Mouse and Touchpad</li> <li>Touchpad option at the top</li> <li>Under "Clicking", select Tap to Click and enable it.</li> </ul> <p>Enable brightness keys</p> <pre>sudo grub2 --update-kernel=ALL --args="module_blacklist=hid_sensor_hub"</pre> <p>Reboot</p> | <p><b>This is for 13th Gen Intel® Core™ Framework Laptop 13 ONLY</b></p> <p>This Fedora guide will assist with:</p> <ul style="list-style-type: none"> <li>Getting your laptop fully updated.</li> <li>Enable improved fractional scaling support Fedora's GNOME environment using Wayland.</li> <li>Enabling tap to click on the touchpad.</li> <li>Enabling brightness keys.</li> </ul> <p>Make sure to update your packages first</p> <pre>sudo dnf upgrade</pre> <p>Reboot</p> <p>If you want to enable fractional scaling on Walyland:</p> <pre>gsettings set org.gnome.mutter experimental-features "[scale-monitor-framebuffer]"</pre> <p>If you want to enable tap-to-click on the touchpad:</p> <ul style="list-style-type: none"> <li>Settings, Mouse and Touchpad</li> <li>Touchpad option at the top</li> <li>Under "Clicking", select Tap to Click and enable it.</li> </ul> <p>Enable brightness keys</p> <pre>sudo grub2 --update-kernel=ALL --args="module_blacklist=hid_sensor_hub"</pre> <p>Reboot</p> |
|--|--|--|

- We're almost done. Please follow the links to your individual Framework Laptop 13 model (11th, 12th and 13th Gen Intel Core.
  - [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.
- ⓘ Our recommendations for [Optimizing Fedora Battery Life](#).

⚠ The xz vulnerability was fixed a while ago. **BUT...** There are some zero-day security vulnerabilities on other packages. It happens! They are already fixed in our package repos, but the fixes are not on the install images. Make sure to promptly upgrade after a fresh F40 install.

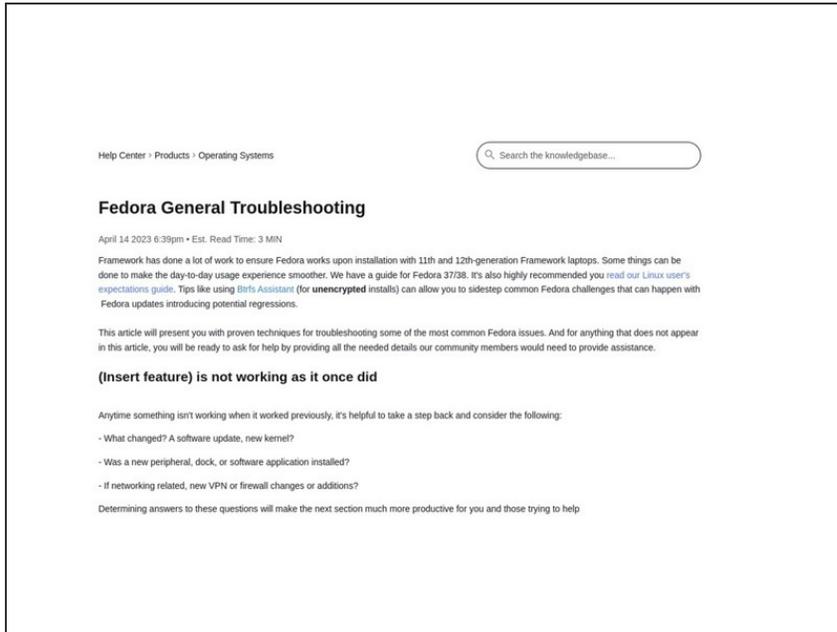
## Step 7 — Recommended: Updating to the latest firmware



```
matt@fedora:~$ sudo fwupdtool --update
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing                : 1/1
Installing                : lshw-8.02.19-2-12.fc39.x86_64 1/1
Running scriptlet: lshw-8.02.19-2-12.fc39.x86_64 1/1
Verifying                 : lshw-8.02.19-2-12.fc39.x86_64 1/1
Installed:
lshw-8.02.19-2-12.fc39.x86_64
Complete!
  vendor: INSYDE Corp.
  version: 03.02
  release date: 09/27/2023
  address: 0x18009
  vendor: AMD Ryzen 5 7640U w/ Radeon 760M Graphics
  physical id: 4
  bus info: cpupnp
  version: 25.116.1
matt@fedora:~$
```

- 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 as seen in the image on the right will tell you if you have an 11th or 12th Gen Intel Core or AMD Ryzen 7040 Series Framework Laptop 13 and also which BIOS version you're using.
  - ⚠ If you have Intel 11th 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 13th 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](#).

## Step 8 — 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!