

AN ALTERNATIVE TO WINDOWS 11 UPGRADE

Windows 11

Support for Windows 10 until October 14, 2025

Requirements for newest Windows 11

Processor: 1 GHz or faster with 2 or more cores, on a compatible 64-bit processor or SoC.

Memory: 4 GB of RAM.

Storage: 64 GB or larger storage device.

System Firmware: UEFI, Secure Boot capable.

TPM: Trusted Platform Module (TPM) version 2.0.

Graphics: Compatible with DirectX 12 or later with WDDM 2.0 driver.

Display: High definition (720p) display that is greater than 9" diagonally, 8 bits per color channel.

Microsoft account and internet connection required for initial setup in certain editions

Web site of computers that can run newest version of Windows 11

<https://www.xda-developers.com/windows-11-compatible-pc/>

Why Linux?

LINUX is open source

Supported by a world wide group of programmers

Source code is available for the operating system and programs

A lot of Windows programs have native Linux versions available

Linux uses less resources than Windows so older machines work just fine

Don't landfill that older, working just fine computer. Put Linux on it !

No requirement for special resources or required accounts

The operating system and programs are available for FREE

Versions of Linux

Fedora	Arch Linux	Debian	Linux Mint	openSUSE	CentOS
Red Hat Enterprise Linux		Kali Linux	elementary OS		Gentoo
Manjaro	CloudLinux	Scientific Linux		AlmaLinux	Android
BackBox	Bodhi Linux	ClearOS	Cub Linux	Debian hardened	
Knoppix	Mageia	Oracle Linux		Ubuntu	Zorin
Raspbian					

BOLDed versions are very popular

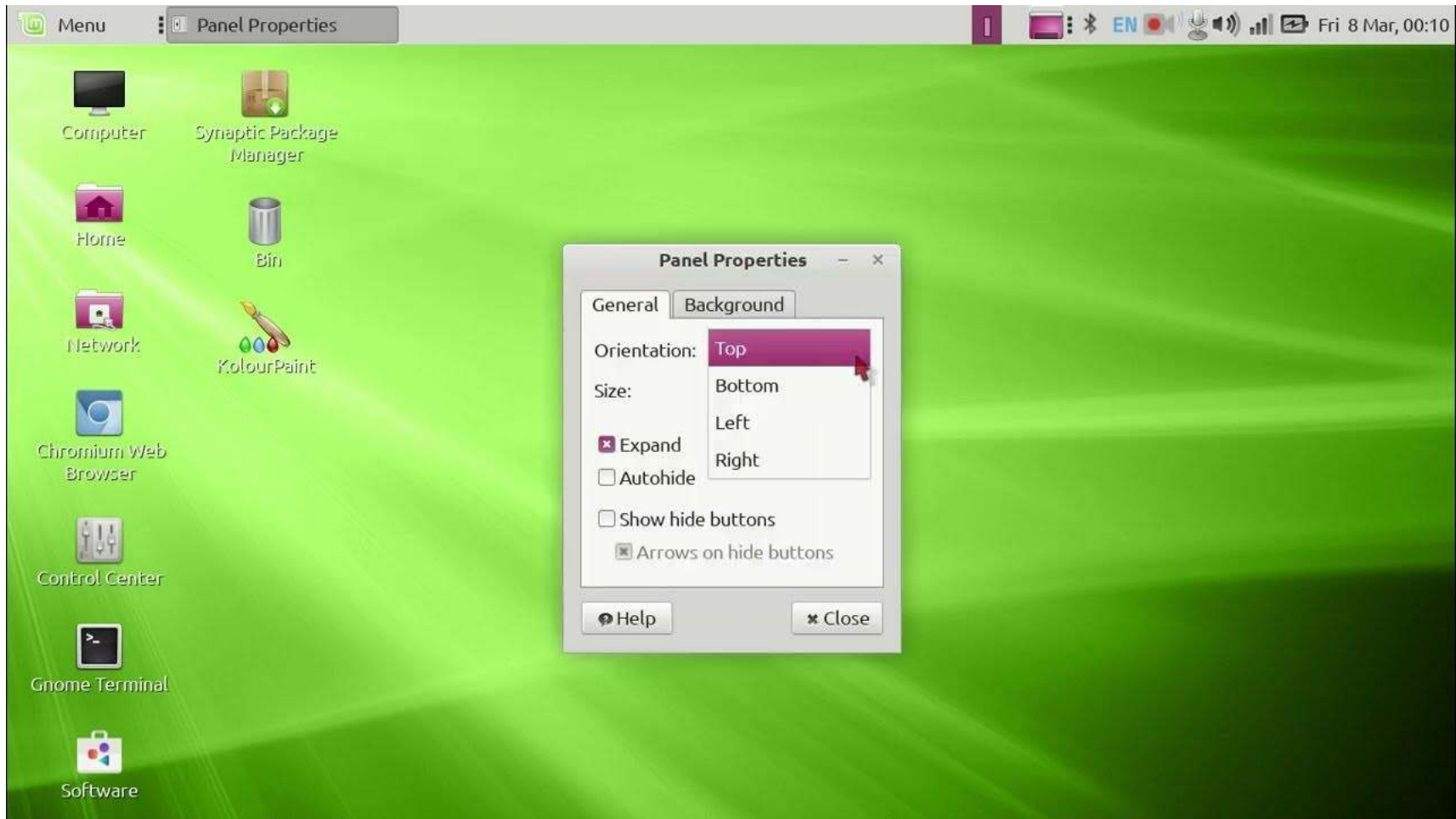
Graphical User Interfaces

XFCE KDE Plasma MATE GNOME Cinnamon Budgie LXQt

Some are designed to emulate Windows 7 and 10



FEDORA running XFCE
Desktop



Debian 12 With Mate Desktop

Ubuntu 18 GNOME Desktop



Fedora LINUX

Red Hat Linux - discontinued in 2004

Fedora Linux - Developed by the Fedora Project

Current Release - Fedora Linux 41

Last Release to support 32 bit machines - Fedora Linux 30

Other LINUX versions still support 32 bit machines

Download Fedora from <https://fedoraproject.org/workstation/download>

FEDORA spins - Installs built with different desktops

<https://fedoraproject.org/spins>

Installs are ISO (CD/DVD) images

Sample of Linux Programs

AbiWord - Compose, edit, and view documents

Android File Transfer (MTP) - Transfer files from/to MTP devices

Audacity - Record and edit audio files

Claws Mail -Thunderbird - Mail Client

dnfdragora - A graphical front end for installing, removing and updating packages

Firefox - Google Chrome - Browse the Web

MATE User Manager - Manage Users

Leafpad - Mousepad - Notepad - Simple text editor

Document Viewer - qpdfview - View multi-page documents

Terminal Emulator - Use the command line

Thunar File Manager - Browse the filesystem with the file manager

Sample of Linux Programs

LibreOffice – emulates “office”, reads/writes office compatible files

Base - Manage databases, create queries and reports to track and manage your information.

Calc - Perform calculations, analyze information and manage lists in spreadsheets.

Draw - Create and edit drawings, flow charts and logos.

Impress - Create and edit presentations for slideshows, meetings and Web pages.

Math - Create and edit scientific formulas and equations.

Writer - Create and edit text and graphics in letters, reports, documents and Web pages.

PDF Arranger - Merge, shuffle, and crop PDFs

VLC media player - Read, capture, broadcast your multimedia streams. Play music / movies

Xarchiver - Create, extract and modify archives (ZIP Files)

What about Windows Programs?

Wine is an open-source project that provides a compatibility layer used to run Windows applications on other operating systems such as Linux

Before going with a Wine solution, search for available Linux versions or look for Linux programs that have similar functions

Winetricks - Work around problems and install applications under Wine

To find out if a Windows program will work under Wine, go to <https://www.winehq.org/> and check their database of programs.

FEDORA INSTALL

Two ways to download live version Fedora system.

The live versions are bootable on your computer

Live versions will run without affecting you current operating system

Live versions allow you to try Linux without actually installing Fedora on your system

FEDORA INSTALL Continued

Create a live version on a DVD

Download the iso file for the live version you want from <https://fedoraproject.org>

Use your existing software to copy the ISO image to a DVD

Create a live version on a thumb drive

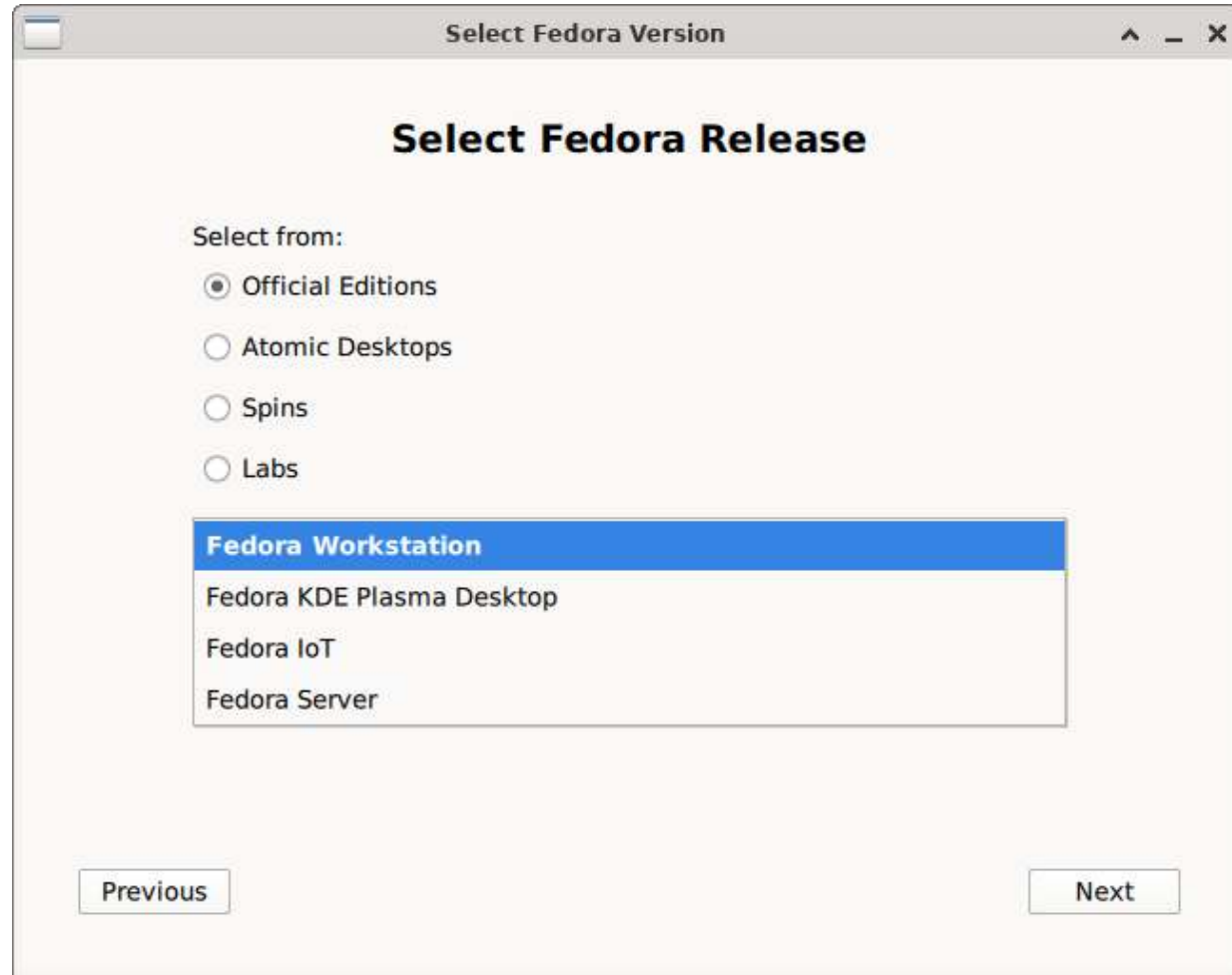
Download Fedora Media Writer program from <https://fedoraproject.org>

Versions available for Windows, Mac and Linux

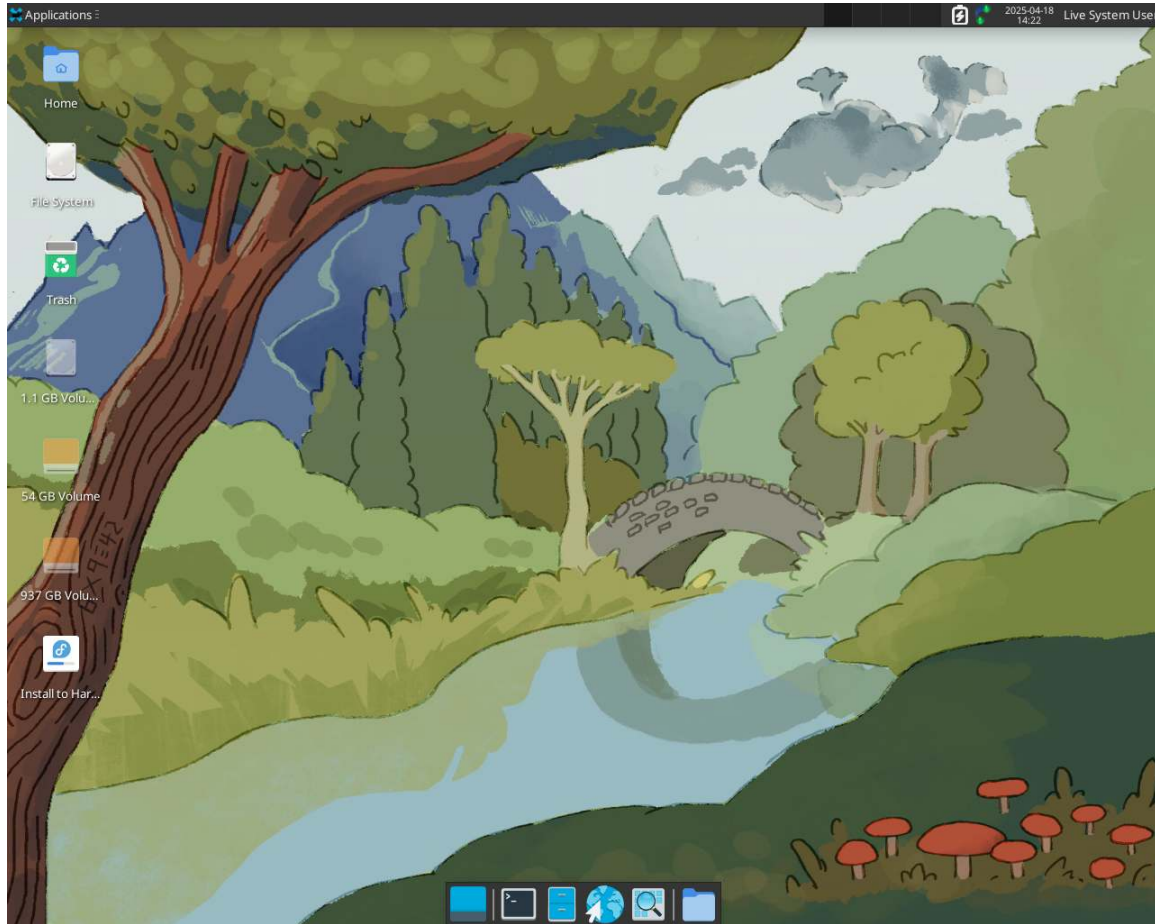
Run Fedora Media Writer

Which will ask you for the version you want download and write a bootable image to a thumb drive

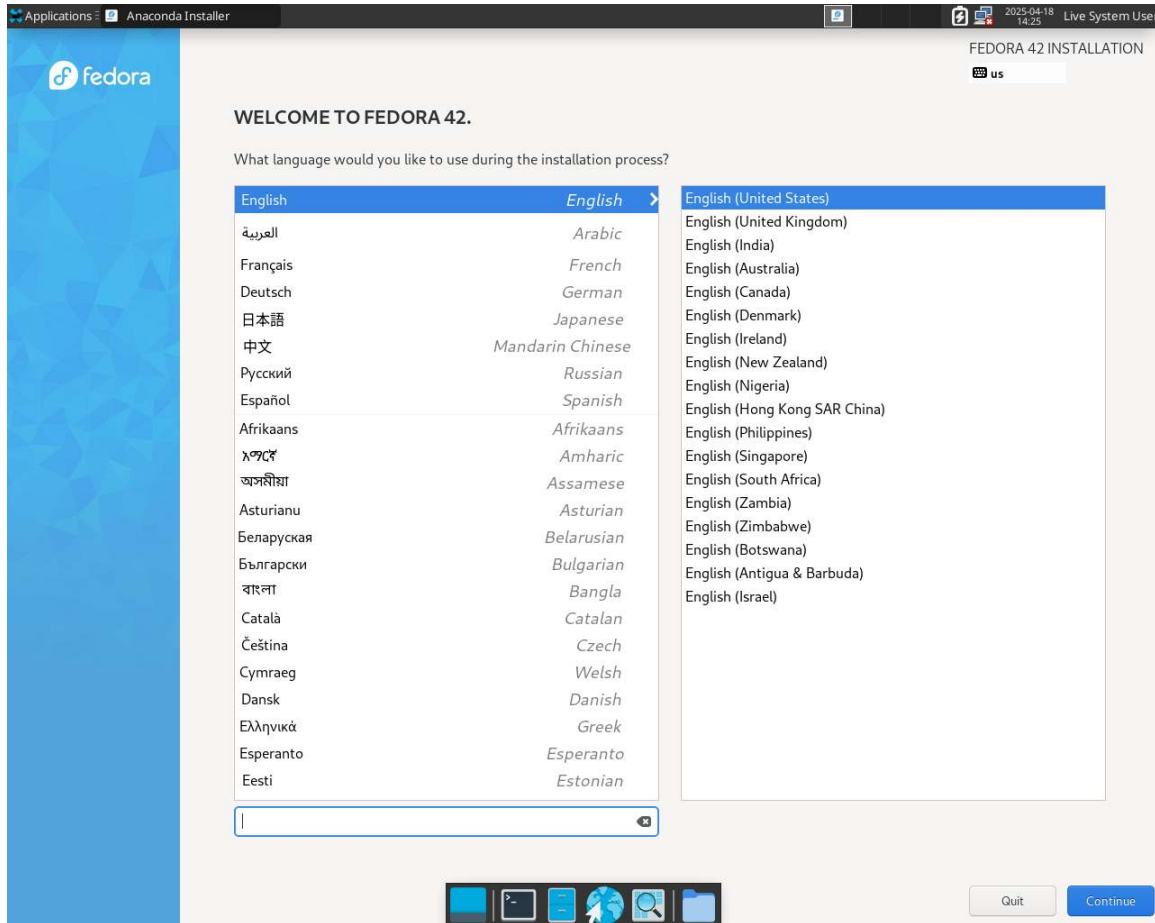
Fedora Media Writer



FEDORA LIVE SCREEN



FEDORA INSTALL SCREEN



FEDORA INSTALL SCREEN

The screenshot shows the Anaconda Installer window for Fedora 42. The title bar includes 'Applications', 'Anaconda Installer', and system information: '2025-04-18 21:41 Live System User'. The main window has a blue sidebar with the Fedora logo and the text 'INSTALLATION SUMMARY'. The top right corner displays 'FEDORA 42 INSTALLATION' and a language dropdown set to 'us'. The main area is divided into three columns: 'LOCALIZATION', 'SYSTEM', and 'USER SETTINGS'. Each column contains two items with icons and status text. 'LOCALIZATION' includes 'Keyboard' (English (US)) and 'Time & Date' (Americas/New York timezone). 'SYSTEM' includes 'Installation Destination' (Automatic partitioning selected) and 'Network & Host Name' (Unknown). 'USER SETTINGS' includes 'Root Account' (Root account is disabled) and 'User Creation' (No user will be created). At the bottom right, there are 'Quit' and 'Begin Installation' buttons. A warning message at the bottom right states: 'We won't touch your disks until you click 'Begin Installation''. At the bottom left, a warning icon and text say: 'Please complete items marked with this icon be...'. The bottom dock contains icons for a terminal, a file manager, a network icon, a search icon, and a folder icon.

Applications Anaconda Installer 2025-04-18 21:41 Live System User

fedora

INSTALLATION SUMMARY FEDORA 42 INSTALLATION us

LOCALIZATION

- Keyboard English (US)
- Time & Date Americas/New York timezone

SYSTEM

- Installation Destination Automatic partitioning selected
- Network & Host Name Unknown

USER SETTINGS

- Root Account Root account is disabled
- User Creation No user will be created

Quit Begin Installation

We won't touch your disks until you click 'Begin Installation'.

Please complete items marked with this icon be...

FEDORA INSTALL SCREEN

Questions to be answered for installation

Select your preferred language

Define your keyboard layout

Define your destination disk partition

Set date and time zone

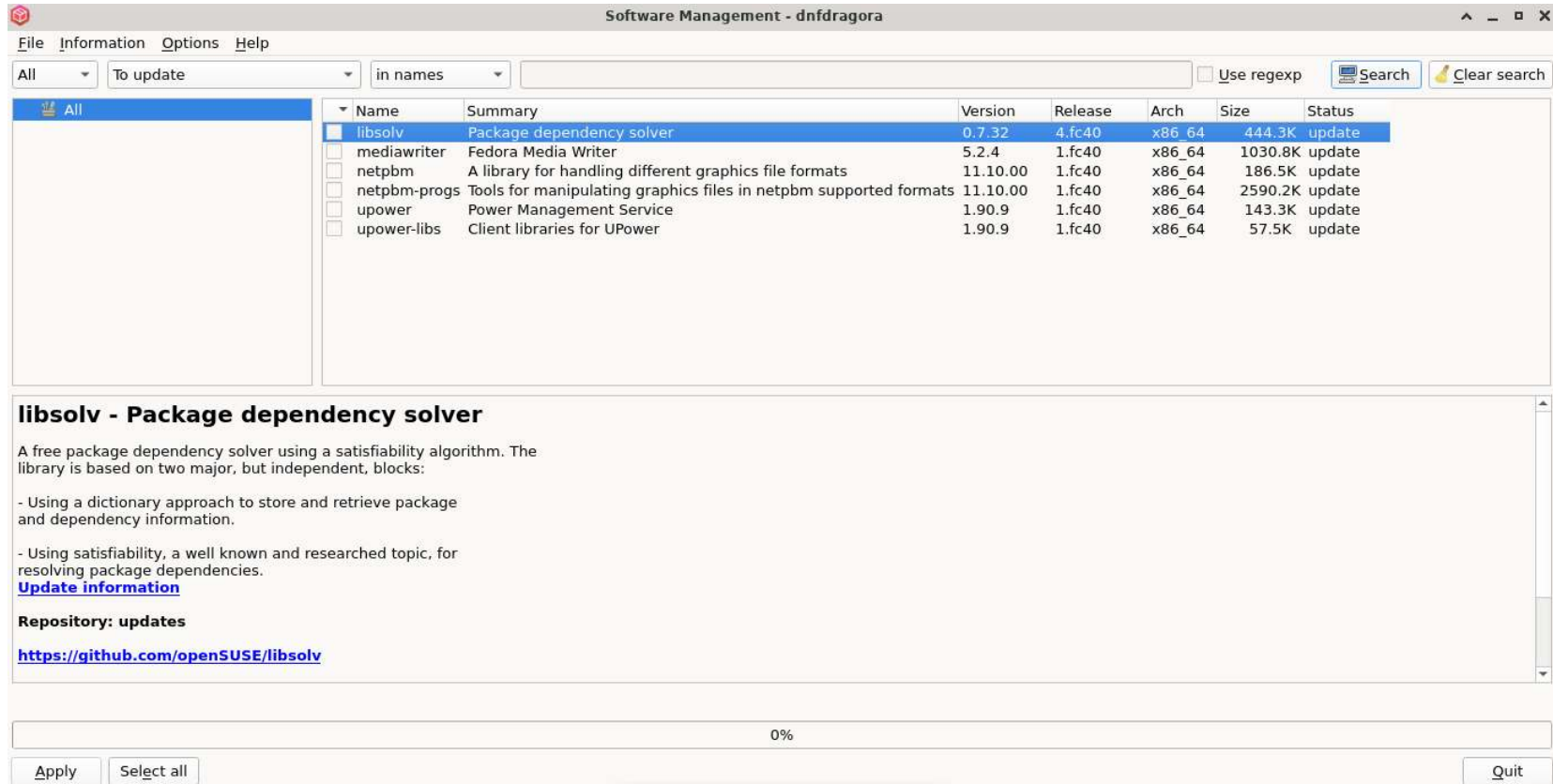
Define network parameters

Enable the root user and password (Same as administrator in Windows)

Setup at least one user account

Updating Installed Programs

dnfdragora – GUI for installing, removing and updating packages



The screenshot shows the 'Software Management - dnfdragora' window. The interface includes a menu bar (File, Information, Options, Help), a search bar, and a table of packages. The 'To update' filter is selected. The table lists several packages, with 'libsolv' highlighted. Below the table, the details for 'libsolv' are displayed, including its description and repository information.

Name	Summary	Version	Release	Arch	Size	Status
<input checked="" type="checkbox"/> libsolv	Package dependency solver	0.7.32	4.fc40	x86_64	444.3K	update
<input type="checkbox"/> mediawriter	Fedora Media Writer	5.2.4	1.fc40	x86_64	1030.8K	update
<input type="checkbox"/> netpbm	A library for handling different graphics file formats	11.10.00	1.fc40	x86_64	186.5K	update
<input type="checkbox"/> netpbm-progs	Tools for manipulating graphics files in netpbm supported formats	11.10.00	1.fc40	x86_64	2590.2K	update
<input type="checkbox"/> upower	Power Management Service	1.90.9	1.fc40	x86_64	143.3K	update
<input type="checkbox"/> upower-libs	Client libraries for UPower	1.90.9	1.fc40	x86_64	57.5K	update

libsolv - Package dependency solver

A free package dependency solver using a satisfiability algorithm. The library is based on two major, but independent, blocks:

- Using a dictionary approach to store and retrieve package and dependency information.
- Using satisfiability, a well known and researched topic, for resolving package dependencies.

[Update information](#)

Repository: updates

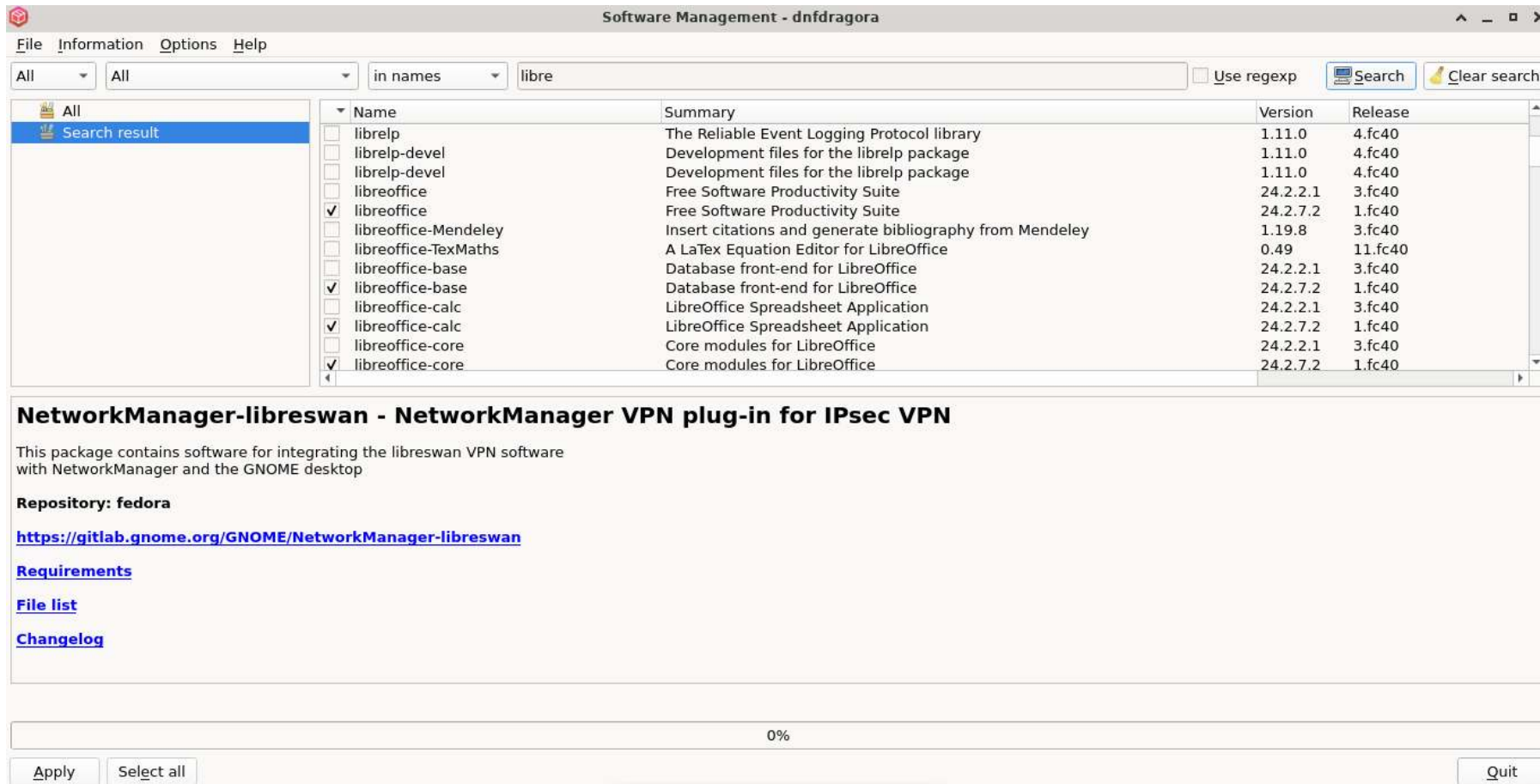
<https://github.com/openSUSE/libsolv>

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Apply Select all Quit

Installing or Removing Programs

dnfdragora – GUI for installing, removing and updating packages



The screenshot shows the dnfdragora software management window. The search criteria are set to 'All' in 'All' repositories, searching for packages 'in names' containing 'libre'. The search results table lists various LibreOffice-related packages, with several checked for selection. Below the table, the details for the selected package 'NetworkManager-libreswan' are displayed, including its description, repository, and links to the source code, requirements, file list, and changelog.

Name	Summary	Version	Release
<input type="checkbox"/> librelp	The Reliable Event Logging Protocol library	1.11.0	4.fc40
<input type="checkbox"/> librelp-devel	Development files for the librelp package	1.11.0	4.fc40
<input type="checkbox"/> librelp-devel	Development files for the librelp package	1.11.0	4.fc40
<input type="checkbox"/> libreoffice	Free Software Productivity Suite	24.2.2.1	3.fc40
<input checked="" type="checkbox"/> libreoffice	Free Software Productivity Suite	24.2.7.2	1.fc40
<input type="checkbox"/> libreoffice-Mendeley	Insert citations and generate bibliography from Mendeley	1.19.8	3.fc40
<input type="checkbox"/> libreoffice-TexMaths	A LaTeX Equation Editor for LibreOffice	0.49	11.fc40
<input type="checkbox"/> libreoffice-base	Database front-end for LibreOffice	24.2.2.1	3.fc40
<input checked="" type="checkbox"/> libreoffice-base	Database front-end for LibreOffice	24.2.7.2	1.fc40
<input type="checkbox"/> libreoffice-calc	LibreOffice Spreadsheet Application	24.2.2.1	3.fc40
<input checked="" type="checkbox"/> libreoffice-calc	LibreOffice Spreadsheet Application	24.2.7.2	1.fc40
<input type="checkbox"/> libreoffice-core	Core modules for LibreOffice	24.2.2.1	3.fc40
<input checked="" type="checkbox"/> libreoffice-core	Core modules for LibreOffice	24.2.7.2	1.fc40

NetworkManager-libreswan - NetworkManager VPN plug-in for IPsec VPN

This package contains software for integrating the libreswan VPN software with NetworkManager and the GNOME desktop

Repository: fedora

<https://gitlab.gnome.org/GNOME/NetworkManager-libreswan>

[Requirements](#)

[File list](#)

[Changelog](#)

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Apply Select all Quit

Updating to a New Version of Fedora

Best done through the command line interface (CLI)

All commands are case sensitive

Open a terminal session and enter commands marked in **red**:

Activate administrator mode you will be prompted for a password

su

Make sure all outstanding updates are applied

dnf update

dnf --refresh upgrade

Make sure you have the latest upgrade package

dnf install dnf-plugin-system-upgrade

New Version of Fedora Continued

Download the version you wish to upgrade to

```
dnf system-upgrade download --skip-broken --releasever=42
```

Start the install process

```
dnf system-upgrade reboot
```

Remove upgrade work files

```
dnf system-upgrade clean
```

Cleanup any unused packages

```
dnf clean packages
```

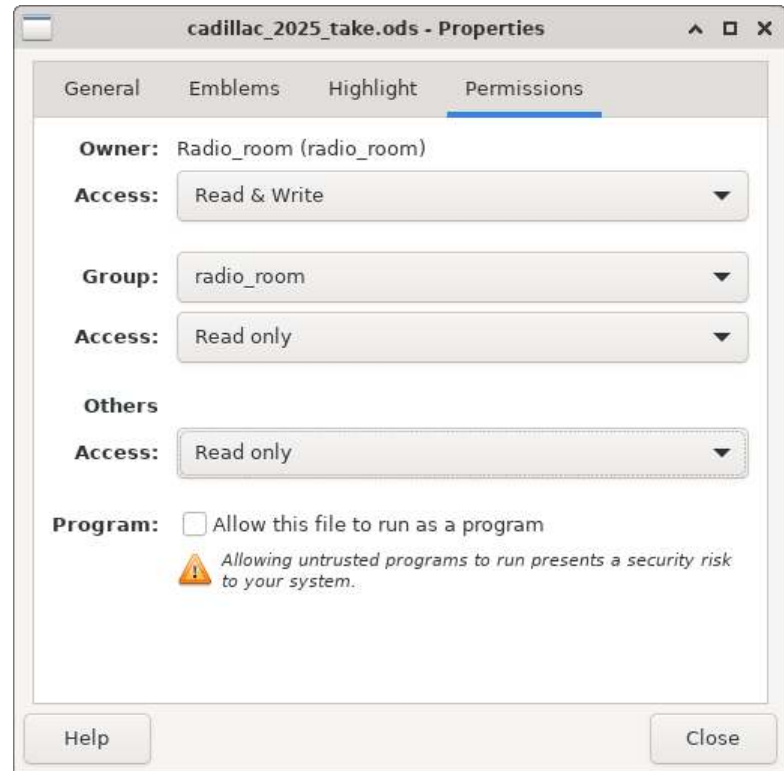
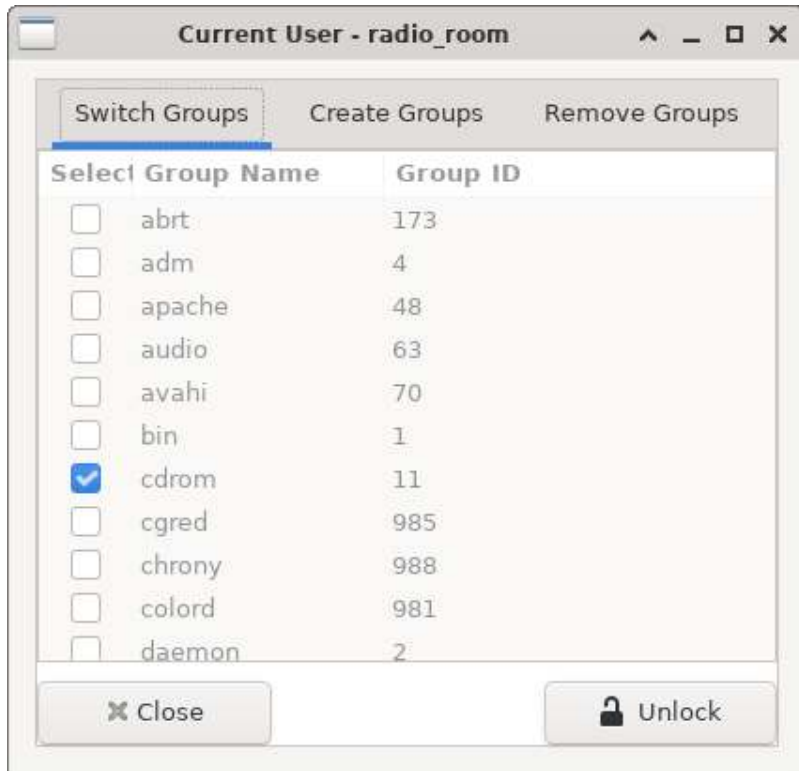
Make sure you have all of the current updates

```
dnf update
```

LINUX RESOURCE ACCESS

Access to LINUX resources based on owner/group

To have access you must be the owner of the resource or a member of a group that has access even system resources (kernel functions)



Web Site for All Things Fedora

<https://fedoraproject.org>