

Fedora

What is Fedora?

Fedora is a Linux based operating system, developed by the community supported Fedora Project and sponsored by Red Hat. Fedora's mission statement is: "Fedora is about the rapid progress of Free and Open Source software."

One of Fedora's main objectives is not only to contain free and open source software, but also to be on the leading edge of such technologies. Also, developers in Fedora prefer to make upstream changes instead of applying fixes specifically for Fedora—this ensures that updates are available to all Linux distributions.

One of major factor is Fedora will always be free for to use, modify and redistribute for everybody everywhere in the world.

Who uses Fedora?

- Linus Torvalds, the creator and primary maintainer of Linux does
- NASA systems
- Roadrunner, the number one Supercomputer in the world
- Over a hundred derivative distributions including Red Hat Enterprise Linux and OLPC
- Even some Robots do
- Millions of other users

Fedora Installation

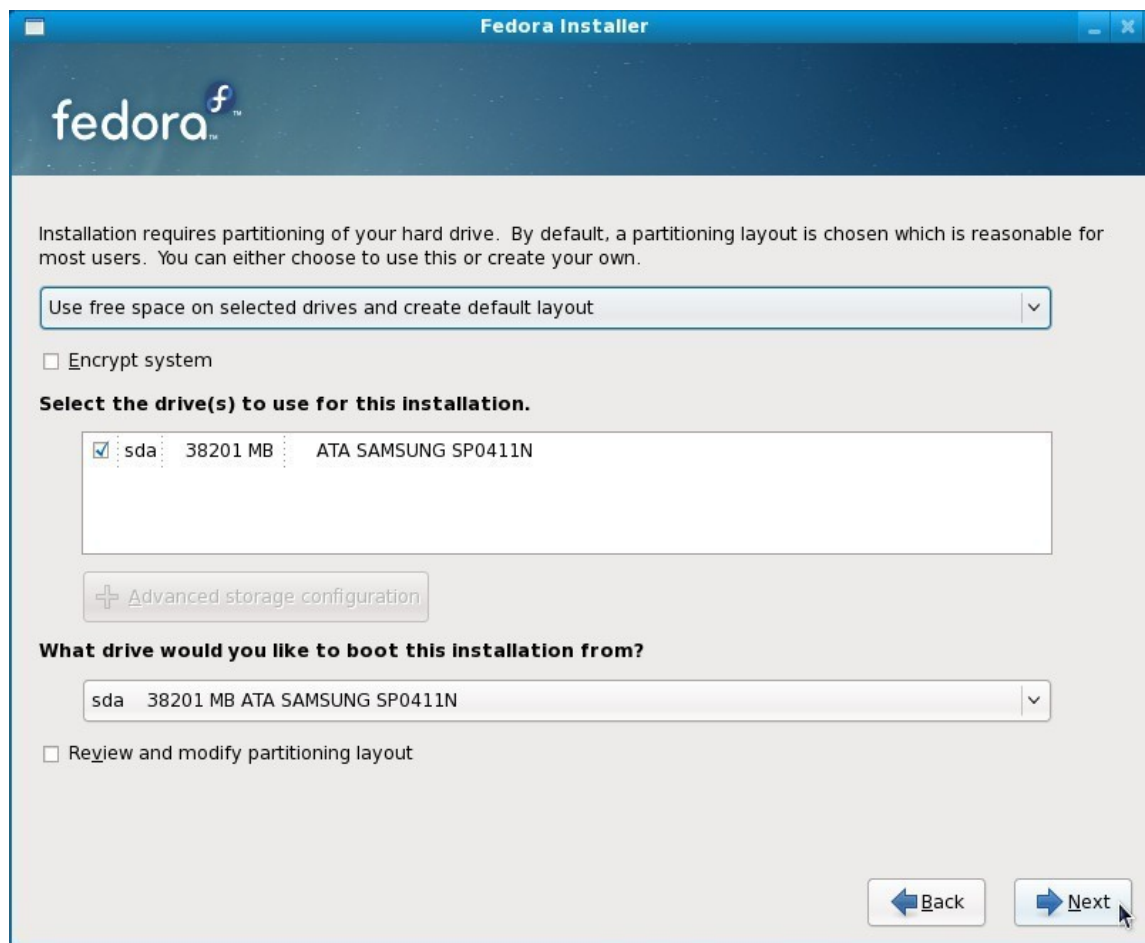
Free up some space. A size of 5-10 GB should be plenty for Fedora 10 Live media installation. You can do this from Windows, Control Panel> Administrative Tools> Computer Management> Disc Management. . To use the Live media, make sure your computer supports booting from its CD or DVD drive.

Booting the Live media:

Now insert the disk. Hit **Enter** when the boot screen appears and wait for it to load into memory. At the login prompt, select **Automatic Login**. You can now play around with it if you like. If you are sure that you want to install Fedora 10 on your hard drive, click on **Install to Hard Drive**.

Installing:

The **Fedora Installer** starts. Click on **Next**. Select your **keyboard layout**, U.S. English is ok. And click on **Next**. Type a name for the computer. It can be anything you want or you can leave the hostname as is and click on **Next**. Select your location (country/city), and click **Next**. Enter the root (Administrator) password (twice to verify it) and **Next**.



The screenshot shows the 'Fedora Installer' window. At the top, the Fedora logo is displayed. Below it, a message states: 'Installation requires partitioning of your hard drive. By default, a partitioning layout is chosen which is reasonable for most users. You can either choose to use this or create your own.' A dropdown menu is set to 'Use free space on selected drives and create default layout'. There is an unchecked checkbox for 'Encrypt system'. The section 'Select the drive(s) to use for this installation.' contains a table with one entry: 'sda 38201 MB ATA SAMSUNG SP0411N', which is checked. Below this is a button for '+ Advanced storage configuration'. The section 'What drive would you like to boot this installation from?' has a dropdown menu set to 'sda 38201 MB ATA SAMSUNG SP0411N'. There is an unchecked checkbox for 'Review and modify partitioning layout'. At the bottom right, there are 'Back' and 'Next' navigation buttons.

Fedora Installer

fedora^f

Installation requires partitioning of your hard drive. By default, a partitioning layout is chosen which is reasonable for most users. You can either choose to use this or create your own.

Use free space on selected drives and create default layout

Encrypt system

Select the drive(s) to use for this installation.

<input checked="" type="checkbox"/>	sda	38201 MB	ATA SAMSUNG SP0411N
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+ Advanced storage configuration

What drive would you like to boot this installation from?

sda 38201 MB ATA SAMSUNG SP0411N

Review and modify partitioning layout

Back Next

Now from the partitioning layout, select **Use free space on selected drives and create default layout** and click **Next**. Now click **Write changes to disk**, the installation will start. This can take a few minutes. When the installation is over, you will get a "**Congratulations, the installation is complete**" screen. Click the **close** button and restart the computer from **System> Shut Down> Restart**. Don't forget to remove the Live CD from the CD drive before the system boots again!

Post Installation:

After rebooting the system, you will get a graphical screen "**Press any key to enter the menu**". Press any key then select **Fedora** and press **Enter**. Be quick to enter the menu, because you will see this screen only for three seconds. If you miss the screen reboot the system and try again.

The system will continue to boot and in a few seconds you will see the First Boot Configuration Wizard. Click **Forward** on the Welcome screen. Click **Forward** on the License screen. Create a user for the system and click Forward. Set the date and time and click **Forward**. Send your hardware profile to the Fedora Project (optional) and click **Finish**. you will see the login screen. Enter the password for the user you've just created. That's it! Enjoy the ultimate and breathtaking Fedora 10 Linux distribution!

Auto mount NTFS drives at startup

- Go to **Main Menu>Applications>Settings>Authorizations**.
- Now find out, **Hal>Storage**. Now select each of the options under Storage and click **Edit**, under "**Implicit Authorizations**" and change everything, like this:
Anyone: Yes
Console: No
Active Console: Yes

Configuring Nautilus (File Browser):

Normally Nautilus open every folder in a new window.
To fix this, follow this instructions.

- Go to **Main Menu>System>Personal>File Management**.
- Now click the **Behavior** tab. Put a check next to **Always open in browser windows** .

Software Installation in Fedora

Fedora has thousands of pieces of software that can be downloaded and automatically installed from the Internet. Many of the packages are only available from rpmfusion. To configure your system so that you can install packages from rpmfusion and some other third party repository, follow these instructions:

- Go to, **Main Menu>Applications>System Tools>Terminal**.
- To become root (Administrator), type:
su -
- Type the following command and press **Enter**:
rpm -Uvh http://download1.rpmfusion.org/free/fedora/rpmfusion-free-release-stable.noarch.rpm http://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-release-stable.noarch.rpm http://rpm.livna.org/livna-release.rpm http://linuxdownload.adobe.com/adobe-release/adobe-release-i386-1.0-1.noarch.rpm

This will enable you all kind of proprietary software.

- Now you can use the graphical tools to install software. Go to **Main Menu>System>Administration**, and then click on "**Add/Remove Software**".
- Simply search for the software you want to install (see the section "**Linux Software List**") and select packages, after that click **Install**.

Multimedia (DVD, mp3, etc) playback in Fedora

To install all the codecs, applications and plugins at once, follow this steps:

- Go to, **Main Menu>Applications>System Tools>Terminal**.
- To become root (Administrator), type:
su -
 1. Type the following command and press **Enter**:
yum -y install libdvdcss libdvddread libdvddplay libdvddnav lsdvd libdvbpsixine-lib-extras-nonfree xine-lib-extras gstreamer gstreamer-plugins-good gstreamer-plugins-bad gstreamer-plugins-ugly compat-libstdc++-33 vlc flash-plugin
 2. To installing WMA codecs type:
**cd /tmp/
wget http://www.mplayerhq.hu/MPlayer/releases/codecs/all-20071007.tar.bz2
tar xfvj all-20071007.tar.bz2
mkdir /usr/lib/codecs/
cp all-20071007/* /usr/lib/codecs/
ln -s /usr/lib/codecs/ /usr/lib/win32**

NVIDIA driver Installation

To install the nvidia driver from terminal, follow this steps:

- Go to, **Main Menu>Applications>System Tools>Terminal**.
- To become root (Administrator), type:
su -
- 1. If you have a Riva or TNT card, type:
yum install kmod-nvidia-legacy
- 2. If you are using a GeForce2, 3 or 4 (including MX) card, type:
yum install kmod-nvidia-96xx
- 3. If you are using a GeForce FX (5xxx) card, type:
yum install kmod-nvidia-173xx
- 4. For other types of card GeForce 6, 7, 8, 9 & 200 series cards, type:
yum install kmod-nvidia-173xx
- Now type,
nvidia-config-display enable
service nvidia restart

ATI driver Installation

To install the ATI driver from terminal, follow this steps:

- Go to, **Main Menu>Applications>System Tools>Terminal**.
- To become root (Administrator), type:
su -
- Now type:
yum install kmod-fglrx
- And type:
fglrx-config-display enable
service fglrx restart

Linux Software List

Internet:

Web Browser: Firefox, Opera, Konqueror, Epiphany, Links, Dillo

E-Mail Messaging: Thunderbird, Evolution, Kmail, Sylpheed, Claws Mail, Balsa, Arrow, Aethera

Instant Messaging: Pidgin, Kopete, Kmess, Skype, aMSN, Yahoo Messenger for Unix

RSS aggregator: Liferea, Akregator, Thunderbird, RSSOwl, KNewsTicker

Downloader: Wget, Downloader for X (D4X), Aria, Getleft, K Get, Utlgfe

FTP Client : GFTP, Filezilla, K FTP, Kasablanca

Download P2P apart from BitTorrent : aMule, LimeWare, Lopster, MLDonkey, GTK Gnutella,

Networking Utilities:

Torrent client: BitTorrent, Azureus, BitTornado, ABC, KTorrent

Audio / Video conference : GnomeMeeting

Remote assistance: VNC, ssh / openssh, TightVNC

Firewall: Shorewall, Kmyfirewall, Easy Firewall Generator, Firewall Builder, Guarddog, FireStarter, Iptables

Antivirus (mainly for windows partitions) : Clamav / Klamav, Avast, F-Prot

Anti-RootKit, anti-backdoor : chkrootkit, rkhunter

Update : prior distribution (see the documentation of distribution)

Encryption: GnuPG, KGPG, Gpg

Creating images / partition disk cloning: G4U (Ghost for Unix), Kbackup, PartImage

Multimedia:

Audio player: Amarok, VLC, XMMS, Juk, Noatun, MPlayer

Audioplayer with Audiotec: Amarok, Rhythmbox

Audio Rip: Sound Juicer, Grip

Audio encoding: SoundJuicer, Grip, KaudioCreator, Kaffeine, Audacity

Player video /DVD: Xine, Mplayer, VLC, Kaffeine, Totem, Ogle, Dragon Player

Video Editor: Cinelerra, Kino, Avidemux, CinePaint

Audio/ video encoder: OGMrip, K9copy, k3b, Winki The Ripper, Thoggen

Flash player: Adobe Flash Player

Graphics:

Image Viewer: GwenView, GQView, Kview, ShowImg, gThumb, quickshow

Bitmap Paint : Gimp, Krita, Pixel32

Vector Design: Inkscape, Sodipodi, Karbon14, Xara LX

3D paint: Blender, KPovModeler

Diagrams: Dia

Screen shots : KSnapshot (KDE), gnome-screenshot, ImageMagick

Office:

Office suites : OpenOffice.org, Koffice

Word Processing: OpenOffice.org Writer, KWord

Spreadsheets: OpenOffice.org Spreadsheet, GNUmeric

Presentation: OpenOffice.org Impress, Kpresenter, Latex

Database : OpenOffice.org Base, Kexi
Publisher : OpenOffice.org Draw, Scribus
PDF viewer: Adobe Reader, Evince, KPDF, Xpdf
PDF Creator: OpenOffice.org, Ghostscript, ps2pdf, PDFLatex, Tex2PDF
Text file Editor: Kate, Kwrite, Gedit, Nedit
Software for bank management : Grisbi, GNUCash, KmyMoney
Optical character recognition (OCR): ClarOCR, Kooka, Gocr, Xsane

General Development:

Edition source code: Geany, Gedit, Kwrite
Compiler C: gcc
Compiler C++: g++
Database: MySQL, PostgreSQL
Assembler/Disassembler: nasm, as

Webmaster development:

Creating Web video: NVU, Kompozer
Creating Web sites by source: Bluefish, Quanta+, Screem
Server: Apache + PHP + MySQL, XAMPP, Tomcat (For Java Servlet and JSP)

Driver utilities:

Burner: K3B, Nero Linux
Partition manager: GParted, QTParted, GParted, DiskDrake (Mandriva), cfdisk, fdisk
Editor hexadecimal: GHex
Virtual machine: VirtualBox, VMware, Qemu

File Management:

File Manager: Dolphin, Nautilus, Konqueror, Thunar, Krusader, Kcommander, Gnozip, Karchiver, FileRoller, Ark, 7 Zip