

# ETHICAL SOFTWARE COMMUNITY

Fedora Server

## **TABLE OF CONTENTS**

|   |           |
|---|-----------|
| <b>Fedora Server Basic.....</b>   |           |
| Installing Fedora Server With Gnome Desktop.....                                      |           |
| (P.S. USB Boot Loader worked as a means for<br>burning the ISO file to your USB)..... |           |
| <b>SSH.....</b>   | <b>20</b> |
| Enabling SSH in Fedora Server.....  | 21        |

# **Fedora Server Basic**

# Installing Fedora Server With Gnome Desktop

**Step 1.** First and foremost, In order to install Fedora Server, you need the following devices;

- Formatted USB Flash Drive (No Data Inside)
- Desktop/Laptop (Windows **Pre-Installed**)

**Step 2.** Follow the step accordingly for installing the **USB boot loader!**

*We won't need to download an ISO file since the Fedora Media Writer will help with it.*

**(P.S. USB Boot Loader worked as a means for burning the ISO file to your USB)**

- go ahead and download **Fedora Media Writer** from the [URL](#) below (Select your OS: Windows Icon).

<https://getfedora.org/fmw/FedoraMediaWriter-win32-latest.exe>

- **Double Click** the download file and Click **Yes** if they ask permission to write on your device.
- **Agree** on the terms and continue the installation.



Fedora Media Writer Setup



### **License Agreement**

Please review the license terms before installing Fedora Media Writer.



Press Page Down to see the rest of the agreement.

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., <<http://fsf.org/>>  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your

If you accept the terms of the agreement, click I Agree to continue. You must accept the  
agreement to install Fedora Media Writer.

Nullsoft Install System v3.07 —

I Agree

Cancel



Fedora Media Writer Setup



### Choose Install Location

Choose the folder in which to install Fedora Media Writer.



Setup will install Fedora Media Writer in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.

Destination Folder

C:\Program Files (x86)\Fedora Media Writer

[Browse...](#)

Space required: 130.9 MB

Space available: 386.1 GB

Nullsoft Install System v3.07

[< Back](#)

[Install](#)

[Cancel](#)



Fedora Media Writer Setup



### Installation Complete

Setup was completed successfully.



Completed

Show details

Nullsoft Install System v3.07

< Back

Next >

Cancel



Fedora Media Writer Setup



## Completing Fedora Media Writer Setup

Fedora Media Writer has been installed on your computer.

Click Finish to close Setup.

Run Fedora Media Writer

< Back

Finish

Cancel

- Click on the “**Next**” button.



### Select Image Source

- Download automatically
- Select .iso file

About

 Next

- select Fedora Server and Click Next

### Select Fedora Release

Select from:

- Official Editions
- Emerging Editions
- Spins
- Labs

Fedora Workstation

Fedora IoT

Fedora Server

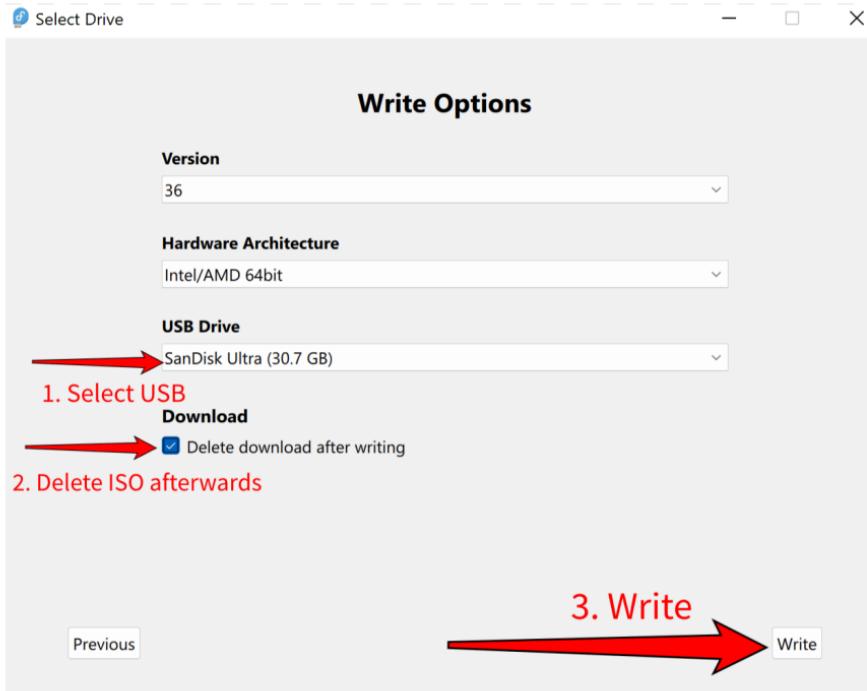
 1.

Previous

Next

 2.

- **Select** your USB Flash Drive.
- Select the “**Delete download**” option to save you some disk space.
- Simply press the button “**Write**” and wait for it to finish.



- You should see no error message and click “Finish”. You are good to go!
- (P.S. if there’s any error message, please contact the Linux Support Officer)

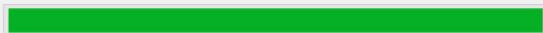
 Successfully written

- □ X



### Fedora Server 36 Successfully Written

Finished!



Restart and boot from SanDisk Ultra (30.7 GB) to start using Fedora Server.



### Step 3. Entering the boot session (In short)

1. Reboot your PC
2. Press Del and wait for a menu to pop up, then select your USB as a boot device.
3. If 2. is not working, please follow 4.
4. Press to enter the boot session and select your USB as the first boot loading device

If there are any difficulties getting the USB to boot, check out the link below for getting into the Boot Menu;

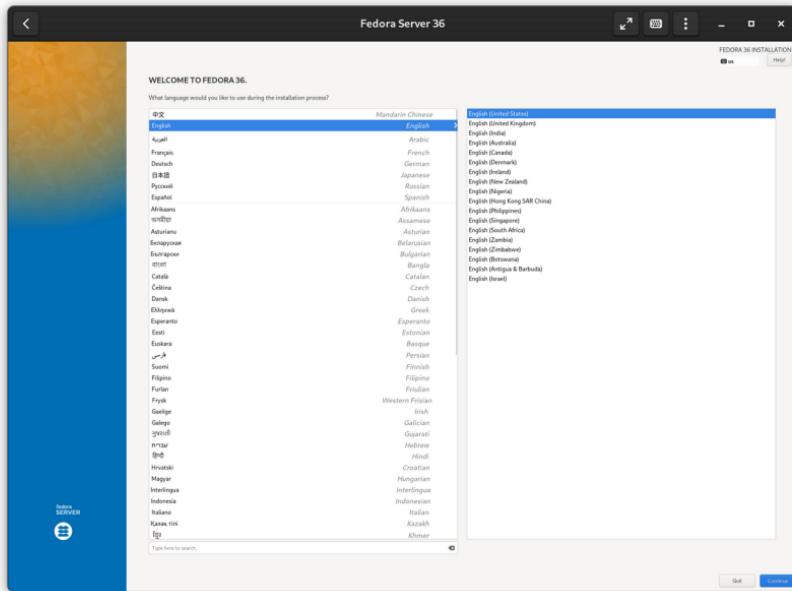
Regular Desktop:

<https://www.youtube.com/watch?v=wH9q3KSISvQ>

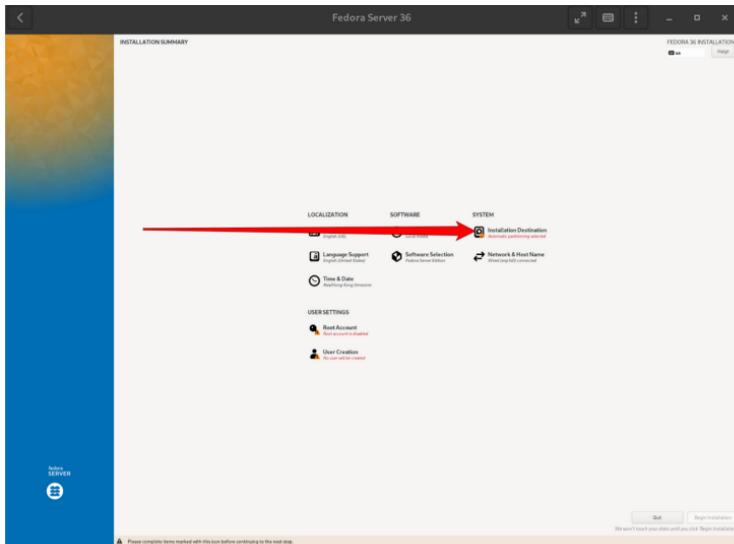
Apple Computer:

<https://www.youtube.com/watch?v=XJDwF1BY66Y>

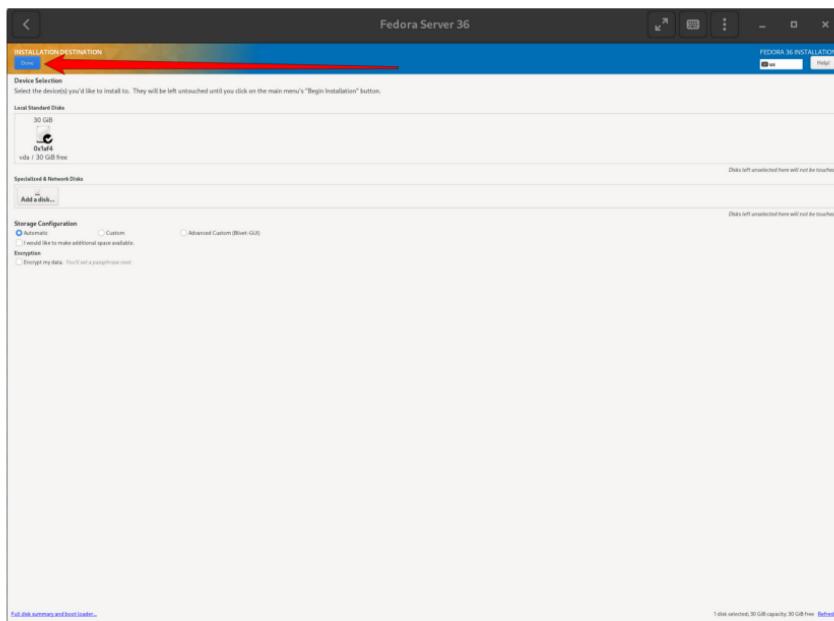
**Step 4.** You should then see the follow screen. Select the language you want to use. Then click on the “Continue” Button in the bottom-right corner.



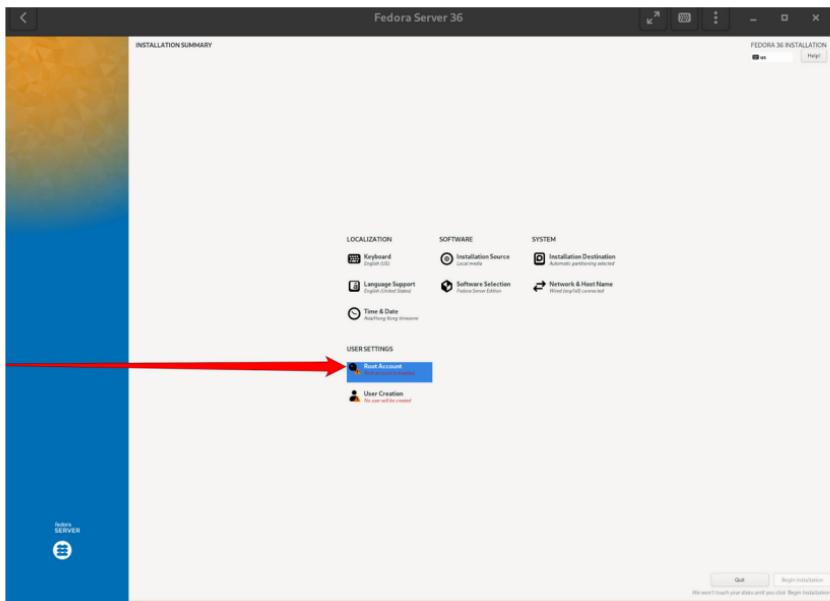
**Step 5.** Select the installation Destination as pointed by the arrow.



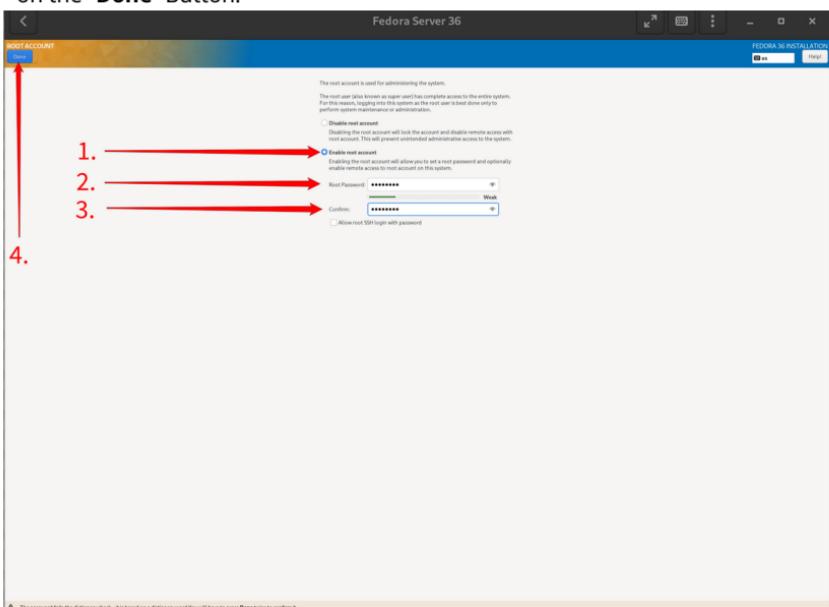
**Step 6.** You disk will be auto selected, if not, select the disk you would like to install the Fedora Server. Afterward, Click the “Done” Button as pointed.



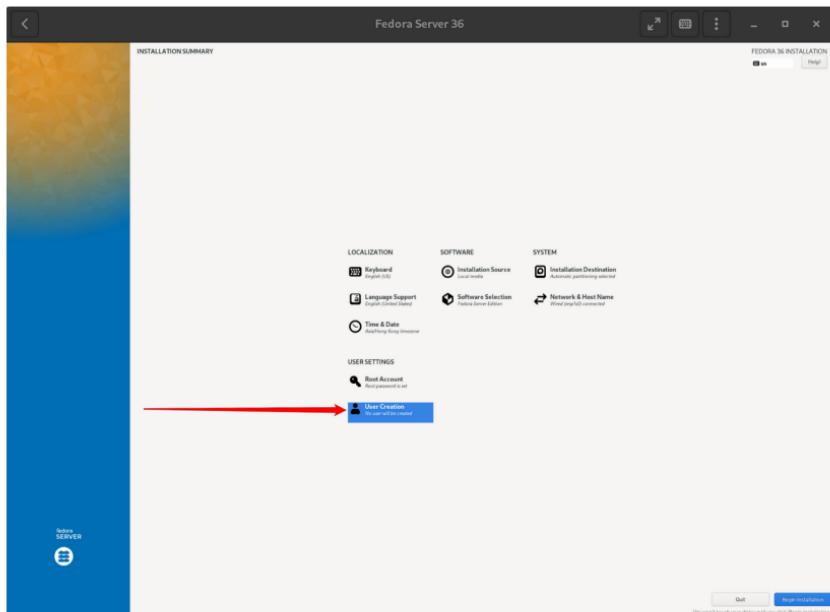
## Step 7. Select the “Root Account”



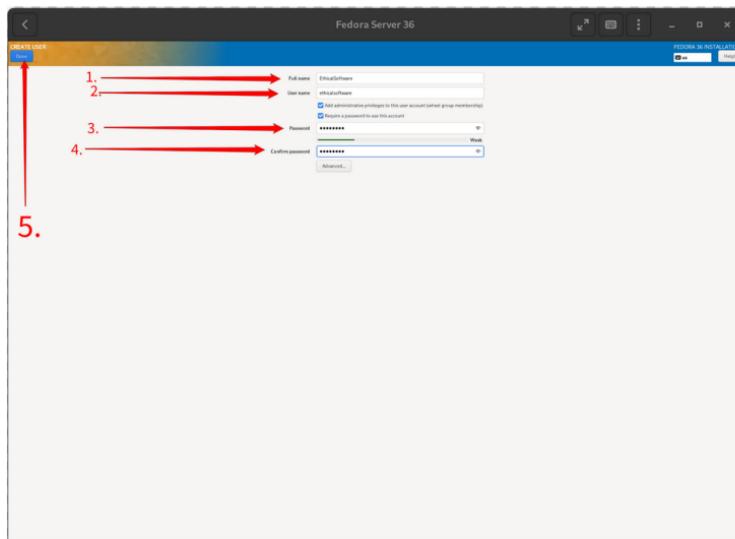
**Step 8. Select “Enable root account” and enter your root password. At last, Click on the “Done” Button.**



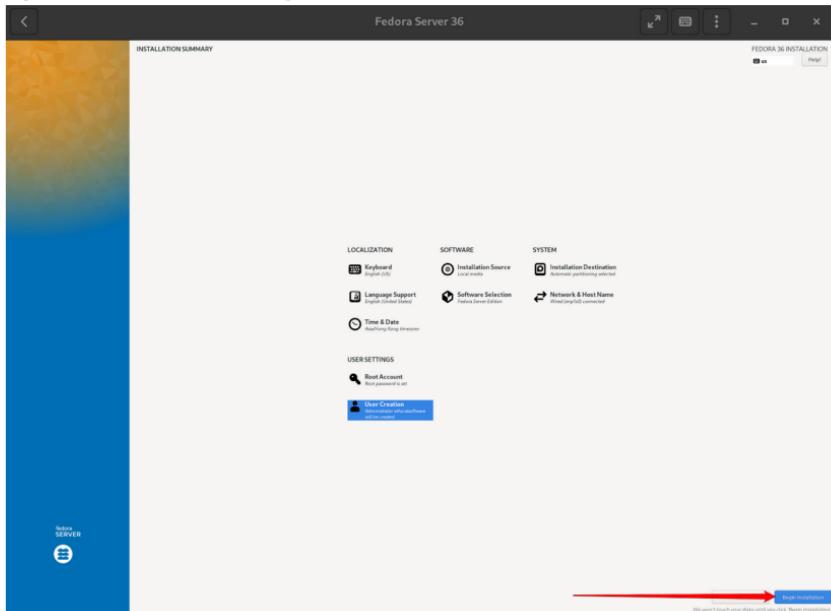
## Step 9. Now select the “User Creation”



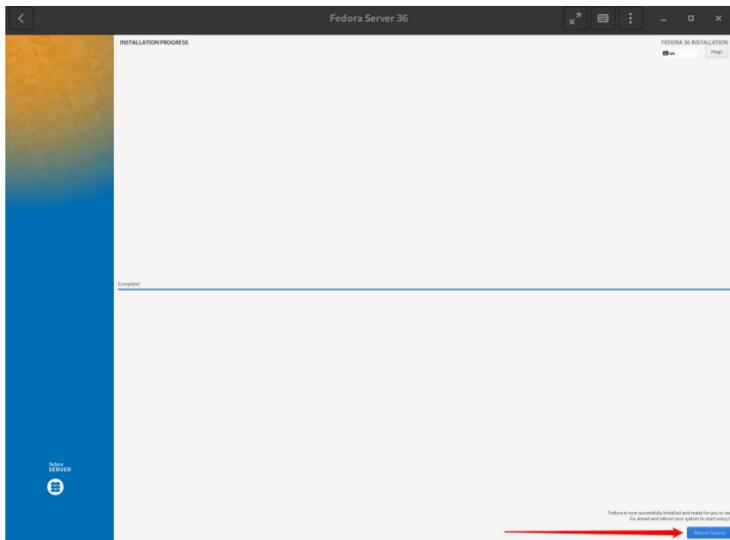
## Step 10. Enter your Username and Password, then click “Done”



**Step 11.** Left Click on the “Begin installation” Button.



**Step 12.** After installation, Click “Reboot System”.



**Step 13.** After reboot, you should see the following screen, enter the “Username and password” you just configured in the setup screen.

```
Fedora Linux 36 (Server Edition)
Kernel 5.17.5-300.fc36.x86_64 on an x86_64 (tty1)

Web console: https://fedora:9090/ or https://10.0.2.15:9090/
fedora login:ethicalsoftware
Password:
[ethicalsoftware@fedora ~]$ _
```

**Step 14.** Type the following command and enter your password:

If the ask for [y/N], enter “y”.

```
sudo dnf update
```

```

openssl1-libc-1:3.0.5-1.fc36.x86_64
pan-libs-1.5.2-13.fc36.x86_64
pcre2-10.40-1.fc36.x86_64
pesc-lite-1.9.8-1.fc36.x86_64
plocate-1.1.16-2.fc36.x86_64
python3-dnf-4.13.0-1.fc36.noarch
python3-freaxml-1.0.5-2.fc36.noarch
python3-hatkey-0.68.0-1.fc36.x86_64
python3-l1bs-3.18.6-1.fc36.x86_64
python3-rpm-4.17.1-3.fc36.x86_64
rpm-build-l1bs-4.17.1-3.fc36.x86_64
rpm-plugin-selinux-4.17.1-3.fc36.x86_64
rsync-3.2.5-1.fc36.x86_64
samba-client-libs-2:4.16.4-0.fc36.x86_64
samba-common-libs-2:4.16.4-0.fc36.x86_64
selinux-policy-targeted-36.14-1.fc36.noarch
setup-2.14.1-1.fc36.noarch
smartmontools-1:7.3-2.fc36.x86_64
squashfs-tools-4.5.1-1.fc36.x86_64
sssd-ad-2.7.3-1.fc36.x86_64
sssd-common-2.7.3-1.fc36.x86_64
sssd-ldap-2.7.3-1.fc36.x86_64
sssd-kcm-2.7.3-1.fc36.x86_64
sssd-nbm-2.7.3-1.fc36.x86_64
sssd-mdns-1.4map-2.7.3-1.fc36.x86_64
systemd-259.0-1.fc36.x86_64
systemd-oomd-defaults-258.8-1.fc36.noarch
systemd-resolved-258.8-1.fc36.x86_64
tpm2-tss-3.2.0-3.fc36.x86_64
tzdata-2022b-1.fc36.noarch
util-linux-core-2.39.1-1.fc36.x86_64
vim-common-2:9.0.213-1.fc36.x86_64
vim-default-editor-2:9.0.213-1.fc36.noarch
vim-filesystem-2:9.0.213-1.fc36.noarch
yum-4.13.0-1.fc36.noarch
zlib-1.2.11-32.fc36.x86_64
Installed:
  cronie-1.5.7-5.fc36.x86_64
  freetype-2.12.1-2.fc36.x86_64
  google-noto-serif-ot-fonts-28201286-10.fc36.noarch
  grub2-tools-efi-1:2.06-47.fc36.x86_64
  harfbuzz-4.0.8-2.fc36.x86_64
  kernel-core-5.18-280.fc36.x86_64
  mtools-4.0.48-1.fc36.x86_64
  reportd-0.7.4-8.fc36.x86_64
  pam-1.5.2-13.fc36.x86_64
  parted-3.4-13.fc36.x86_64
  pcre2-syntax-10.40-1.fc36.noarch
  pesc-lite-l1bs-1.9.8-1.fc36.x86_64
  python3-3.18.6-1.fc36.x86_64
  python3-dnf-plugins-core-4.2.1-1.fc36.noarch
  python3-gobjection-base-3.42.1-1.fc36.x86_64
  python3-l1bndl-0.68.0-1.fc36.x86_64
  python3-l1bndl2-2.9.14-1.fc36.x86_64
  rpm-4.17.1-3.fc36.x86_64
  rpm-l1bs-4.17.1-3.fc36.x86_64
  rpm-sign-l1bs-4.17.1-3.fc36.x86_64
  rsyslog-8.2284.0-2.fc36.x86_64
  samba-common-2:4.16.4-0.fc36.noarch
  selinux-policy-36.14-1.fc36.noarch
  setroubleshoot-server-3.3.30-1.fc36.x86_64
  shadow-utils-2:4.11.1-3.fc36.x86_64
  smartmontools-selinux-1:7.3-2.fc36.noarch
  sssd-2.7.3-1.fc36.x86_64
  sssd-client-2.7.3-1.fc36.x86_64
  sssd-common-2.7.3-1.fc36.x86_64
  sssd-ldap-2.7.3-1.fc36.x86_64
  sssd-krb5-2.7.3-1.fc36.x86_64
  sssd-map-2.7.3-1.fc36.x86_64
  sssd-mdns-2.7.3-1.fc36.x86_64
  systemd-259.0-1.fc36.x86_64
  systemd-pam-258.8-1.fc36.x86_64
  systemd-udev-258.8-1.fc36.x86_64
  tree-2.8.2-1.fc36.x86_64
  util-linux-2.39.1-1.fc36.x86_64
  util-linux-user-2.38-1.fc36.x86_64
  vim-data-2:9.0.213-1.fc36.noarch
  vim-enhanced-2:9.0.213-1.fc36.x86_64
  vim-minimal-2:9.0.213-1.fc36.x86_64
  zchunk-libs-1.2.2-1.fc36.x86_64
  cronie-anacron-1.5.7-5.fc36.x86_64
  google-noto-sans-mono-ot-fonts-28201286-10.fc36.noarch
  graphite2-1.34.9.fc36.x86_64
  grub2-tools-extra-1:2.06-47.fc36.x86_64
  kernel-5.18-280.fc36.x86_64
  kernel-modules-5.18-280.fc36.x86_64
  python3-gobjection-base-noarch-3.42.1-1.fc36.noarch
  rpm-plugin-systemd-inhibit-4.17.1-3.fc36.x86_64

```

Complete!  
[ethicalssoftware@fedora ~]\$

**Step 15.** Type the following command and enter your password:

```
sudo dnf -y group install "Basic Desktop" GNOME
```

```
xdg-desktop-portal-1.12.6-1.fc36.x86_64
xdg-desktop-portal-gtk-42.3-1.fc36.x86_64
xdg-desktop-portal-gtk-1.12.8-5.fc36.x86_64
xdg-user-dirs-9.17-19.fc36.x86_64
xdg-user-dirs-9tkt-0.19-22.fc36.x86_64
xen-libs-4.16.1-8.fc36.x86_64
xen-licenses-4.16.1-8.fc36.x86_64
xhost-1.0.8-3.fc36.x86_64
xkbcmap-1.4.5-3.fc36.x86_64
xmessagel-1.0.5-4.fc36.x86_64
xml-common-0.6.3-58.fc36.noarch
xmisccl-1.2.33-2.fc36.x86_64
xmisccl-openssl-1.2.33-2.fc36.x86_64
xmmodmap-1.0.19-3.fc36.x86_64
xmonad-basic-0.17.0-1.fc36.x86_64
xmonad-core-0.17.0-1.fc36.x86_64
xorg-x11-driv-amdgpu-22.0.0-1.fc36.x86_64
xorg-x11-driv-ati-19.1.0-7.fc36.x86_64
xorg-x11-driv-clevo-2.10.6-11.fc36.x86_64
xorg-x11-driv-fbdev-0.5.0-10.fc36.x86_64
xorg-x11-driv-intel-2.99.917-52.29200295.fc36.x86_64
xorg-x11-driv-libinput-1.2.1-1.fc36.x86_64
xorg-x11-driv-nouveau-11.1.0.17-3.fc36.x86_64
xorg-x11-driv-openh264-0.1.400-3.28218215git5fbdad06.fc36.x86_64
xorg-x11-driv-qxl-0.1.5-1.fc35.x86_64
xorg-x11-driv-rvvesa-2.5.0-9.fc35.x86_64
xorg-x11-driv-viare-13.2.1.16.fc35.x86_64
xorg-x11-driv-wacom-1.0.0-1.fc36.x86_64
xorg-x11-driv-wacom_serial-support-1.0.0-1.fc36.x86_64
xorg-x11-fonts-misc-7.5-33.fc36.noarch
xorg-x11-server-Xorg-1.28.14-7.fc36.x86_64
xorg-x11-server-Xwayland-22.1.3-1.fc36.x86_64
xorg-x11-server-common-1.28.14-7.fc36.x86_64
xorg-x11-xauth-1:1.1.1-2.fc36.x86_64
xorg-x11-xinit-1.4.0-14.fc36.x86_64
xrdb-1.2.1-3.fc36.x86_64
xss-lock-0.3.0-17.20140302git.fc36.x86_64
xterm-371-1.fc36.x86_64
xterm-resize-371-1.fc36.x86_64
yajl-2.1.0-18.fc36.x86_64
yelp-libs-2:42.1-1.fc36.x86_64
yelp-xsl-42.0-1.fc36.noarch
zenity-3.42.1-2.fc36.x86_64
zfs-fuse-0.7.2-23.fc36.x86_64
```

```
Complete!
[ethicalsoftware@fedora ~]$ _
```

**Step 16.** Type the following command to set Gnome to Default and enter your password:

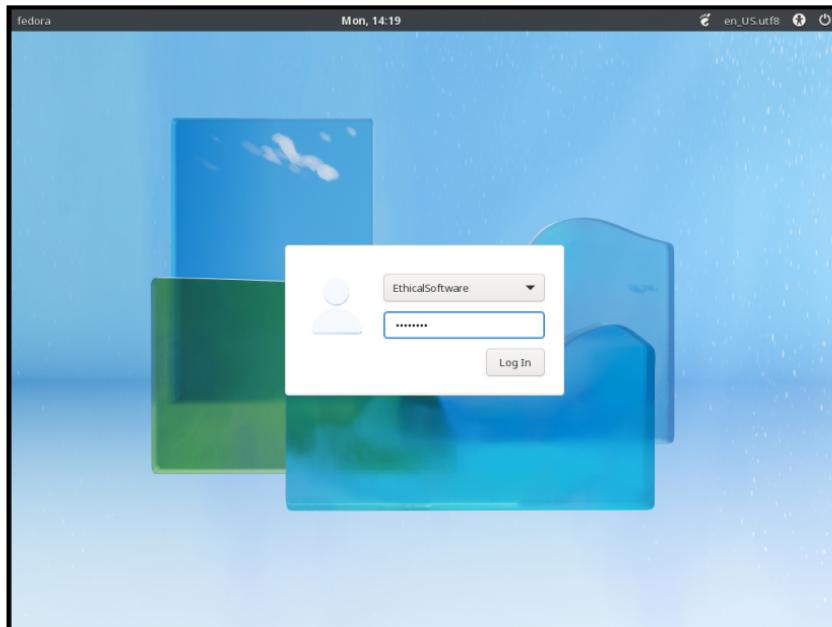
```
sudo systemctl set-default graphical.target
```

```
[ethicalsoftware@fedora ~]$ sudo systemctl set-default graphical.target
Removed /etc/systemd/system/default.target.
Created symlink /etc/systemd/system/default.target → /usr/lib/systemd/system/graphical.target.
[ethicalsoftware@fedora ~]$ _
```

**Step 17.** Type the following command to restart your Server.

```
sudo reboot
```

**Step 18.** You should see the Gnome GUI, please enter your password to login. Then you are good to go.



E.N.D

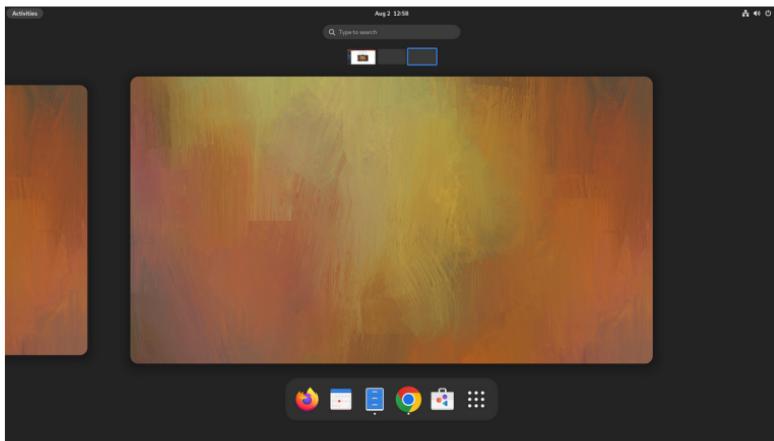
**SSH**

# Enabling SSH in Fedora Server

**Step 1.** First, on your Fedora, move your mouse to the **top-left corner** of your screen.

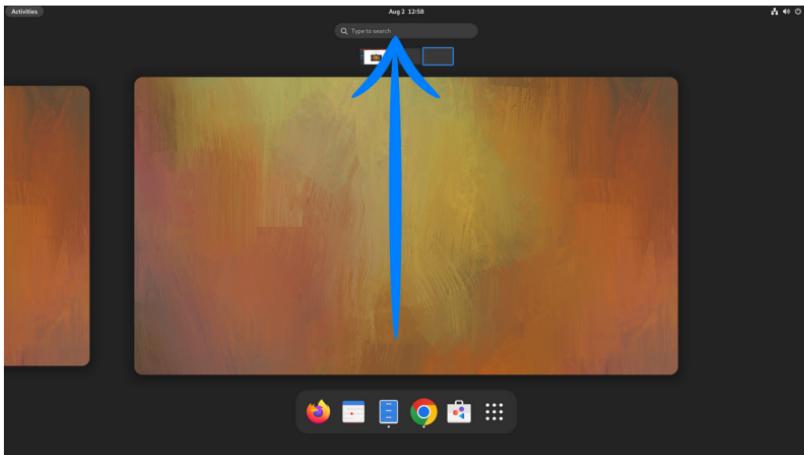
You should see the following screen:

*Example Output:*



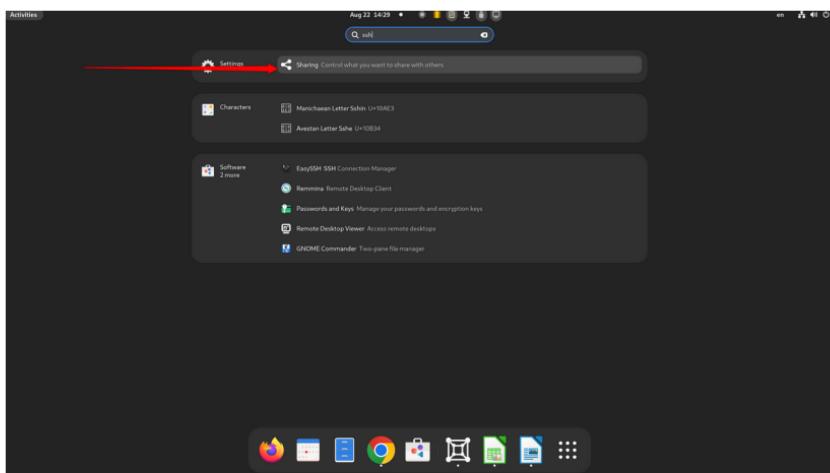
**Step 2.** Left Click "**Type to search**".

*Example Output:*



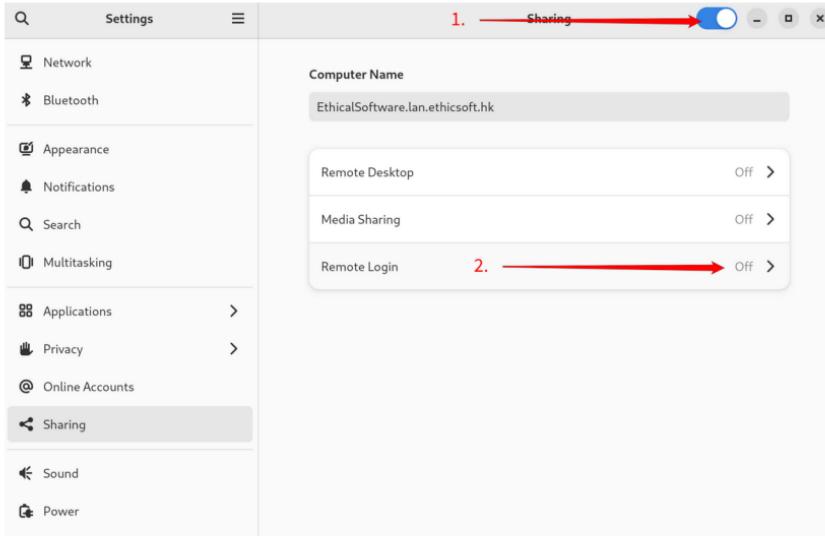
**Step 3.** Enter the word “ssh”. And click on the “Sharing” Option.

**Example Output:**



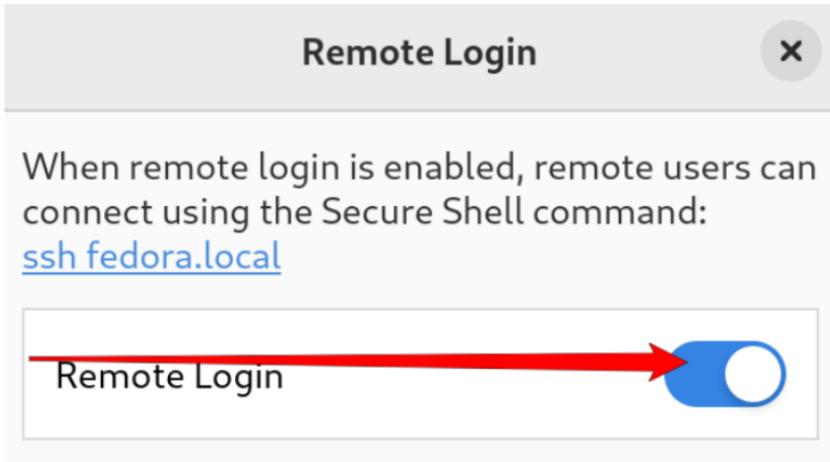
**Step 4.** Click on the “Sharing” Button and then go click on the Remote Login If it is “Off”.

**Example Output:**



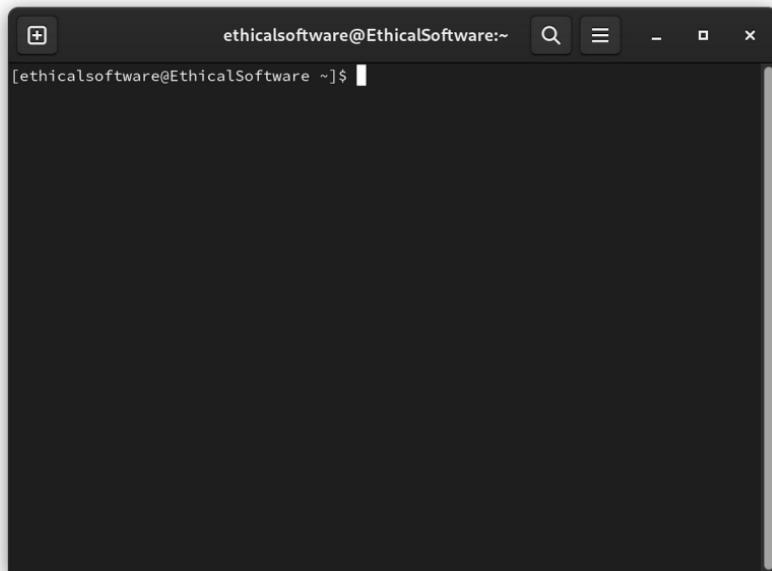
**Step 5.** Make sure you enabled the **Button** for “Remote Login”

**Example Output:**



**Step 6.** Repeat **Step 1-3** but enter “Terminal” instead.

*Example Output:*

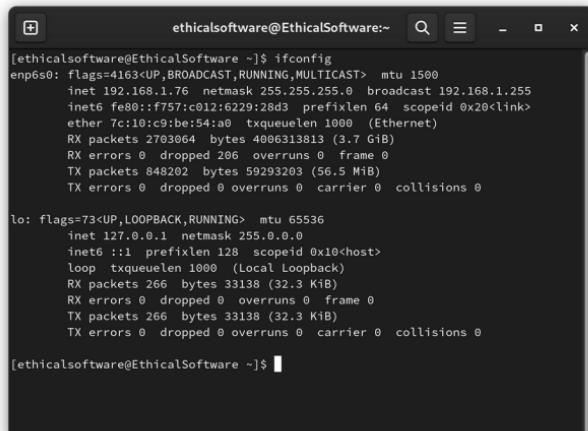


```
[ethicalsoftware@EthicalSoftware ~]$
```

**Step 7.** Enter the command, you will find out your LAN IP address :

```
ifconfig
```

*Example Output:*



```
ifconfig
[ethicalsoftware@EthicalSoftware ~]$ ifconfig
enp6s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.1.76  netmask 255.255.255.0 broadcast 192.168.1.255
              inet6 fe80::f757:c012:6229:2bd3  prefixlen 64  scopeid 0x20<link>
                ether 7c:10:c9:be:54:a0  txqueuelen 1000  (Ethernet)
                  RX packets 2703064  bytes 4006313813 (3.7 GiB)
                  RX errors 0  dropped 206  overruns 0  frame 0
                  TX packets 848202  bytes 59293203 (56.5 MiB)
                  TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
      inet 127.0.0.1  netmask 255.0.0.0
            inet6 ::1  prefixlen 128  scopeid 0x10<host>
              loop  txqueuelen 1000  (Local Loopback)
                RX packets 266  bytes 33138 (32.3 KiB)
                RX errors 0  dropped 0  overruns 0  frame 0
                TX packets 266  bytes 33138 (32.3 KiB)
                TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

[ethicalsoftware@EthicalSoftware ~]$
```

**Step 8.** Use another PC in your LAN, ssh connect it to the Fedora Server we created.

Enter the command and enter the ssh password:

```
ssh 192.168.1.76
```

**Example Output:**

```
[ethicalsoftware@fedora ssh]$ ssh 192.168.1.76
ethicalsoftware@192.168.1.76's password:
Last login: Mon Aug 22 14:42:45 2022
```

E.N.D