

```
#This is a script to automate installing a graphics workstation quickly.  
I use Fedora 37 Cinnamon Spin
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```
# first make sure this is a Linux and not windows document as CRLF  
doesn't work with Bash scripts.  
#I have a folder desktop-files that has all desktop icons already loaded  
so I don't have to do each program and copy link to the desktop.  
# copy this to your /home/username/Downloads folder  
# copy a few files into /Downloads: smb.conf, Xwrapper.config,  
wsdd.service  
#change fedora37 to whatever you want your hostname to be  
hostnamectl set-hostname fedora37  
dnf -y install samba  
systemctl enable smb  
systemctl start smb  
systemctl enable nmb  
systemctl start nmb  
  
# edit hostname and username in smb.conf  
#I have the smb.conf file all setup in /Downloads and just copy it in to  
/etc/samba  
yes | cp /home/your-user-name/Downloads/smb.conf /etc/samba/smb.conf
```

```
firewall-cmd --add-service=samba --permanent  
firewall-cmd --reload  
firewall-cmd --zone=public --add-port=137/tcp --permanent  
firewall-cmd --zone=public --add-port=137/udp --permanent  
firewall-cmd --zone=public --add-port=138/tcp --permanent  
firewall-cmd --zone=public --add-port=138/udp --permanent  
firewall-cmd --zone=public --add-port=139/tcp --permanent  
firewall-cmd --zone=public --add-port=139/udp --permanent  
firewall-cmd --zone=public --add-port=445/tcp --permanent  
firewall-cmd --zone=public --add-port=445/udp --permanent  
firewall-cmd --add-source-port=137/tcp --permanent  
firewall-cmd --add-source-port=138/tcp --permanent  
firewall-cmd --add-source-port=139/tcp --permanent  
firewall-cmd --add-source-port=445/tcp --permanent  
firewall-cmd --reload
```

```
firewall-cmd --zone=public --add-port=3389/tcp --permanent  
firewall-cmd --zone=public --add-port=3389/udp --permanent  
firewall-cmd --zone=public --add-port=3350/tcp --permanent  
firewall-cmd --zone=public --add-port=3350/udp --permanent  
firewall-cmd --zone=public --add-port=6789/tcp --permanent  
firewall-cmd --zone=public --add-port=6789/udp --permanent  
firewall-cmd --add-source-port=3389/tcp --permanent  
firewall-cmd --add-source-port=3389/udp --permanent  
firewall-cmd --add-source-port=3350/tcp --permanent  
firewall-cmd --add-source-port=3350/udp --permanent  
firewall-cmd --reload
```

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firewall-cmd --permanent --add-source-port=22081/udp --zone=public
```

```
firewall-cmd --zone=public --add-port=32400/tcp --permanent
firewall-cmd --zone=public --add-port=32400/udp --permanent
firewall-cmd --zone=public --add-port=1900/udp --permanent
firewall-cmd --zone=public --add-port=3005/tcp --permanent
firewall-cmd --zone=public --add-port=32412/udp --permanent
firewall-cmd --zone=public --add-port=32413/udp --permanent
firewall-cmd --zone=public --add-port=32414/udp --permanent
firewall-cmd --zone=public --add-port=32469/tcp --permanent
firewall-cmd --reload
```

```
setsebool -P samba_enable_home_dirs on
setsebool -P samba_export_all_rw=1
```

#this allows me to remote into my linux computer from a Windows PC.

```
dnf -y install xrdp
systemctl enable xrdp.service
systemctl start xrdp.service
systemctl enable xrdp-sesman.service
systemctl start xrdp-sesman.service
```

```
#vi /etc/sysconfig/desktop
yes | cp /home/your-user-name/Downloads/desktop /etc/sysconfig/desktop
#echo unset DBUS_SESSION_BUS_ADDRESS; cinnamon-session
#edit the file /etc/X11/Xwrapper.config and set allowed_users=anybody
there.
touch /etc/X11/Xwrapper.config
yes | cp /home/your-user-name/Downloads/Xwrapper.config /etc/X11
chcon --type=bin_t /usr/sbin/xrdp
chcon --type=bin_t /usr/sbin/xrdp-sesman
systemctl reenale xrdp.service
systemctl start xrdp.service
```

```
dnf -y install https://download1.rpmfusion.org/free/fedora/rpmfusion-
free-release-$(rpm -E %fedora).noarch.rpm
https://download1.rpmfusion.org/nonfree/fedora/rpmfusion-nonfree-release-
$(rpm -E %fedora).noarch.rpm
```

this is for an nvidia geforce 710 card - substitute your video card
adapter drivers

```
dnf -y install akmod-nvidia-470xx xorg-x11-drv-nvidia-470xx xorg-x11-drv-
nvidia-470xx-cuda
#dnf install xorg-x11-drv-nvidia-libs.i686 if using Wine and Windows apps
#dnf install xorg-x11-drv-nvidia-cuda
```

```
#for Fedora 37 laptop lgb GT330m video card
#dnf -y install akmod-nvidia-340xx
#dnf -y xorg-x11-drv-nvidia-340xx
#dnf -y xorg-x11-drv-nvidia-340xx-cuda
```

```
#reboot

#these are the programs I use on a regular basis and script load them
dnf -y install java
dnf -y install handbrake handbrake-gui
dnf -y install gparted
dnf -y install vlc
#nf -y install ffmpeg

dnf -y install remmina
#needed to get into old netgear readynas
update-crypto-policies --set DEFAULT:FEDORA32

dnf -y install inkscape
dnf -y install gimp
dnf -y install filezilla
dnf -y install audacious
dnf -y install audacity
dnf -y install scribus

cd /home/your-user-name/Downloads

#this is a video editing package that allows combining multiple CD cuts
into one large movie.
cd /home/your-user-name/Downloads
cp -R /home/your-user-name/Downloads/LosslessCut-linux-x64/
/opt/LosslessCut/
#I keep losslesscut.desktop and icon.png in the /LosslessCut-stuff
cp /home/your-user-name/Downloads/LosslessCut-stuff/losslesscut.desktop
/usr/share/applications/losslesscut.desktop
cp /home/your-user-name/Downloads/LosslessCut-stuff/icon.png
/opt/LosslessCut/resources/

wget https://github.com/mifi/lossless-
cut/releases/download/v3.46.2/LosslessCut-linux-x64.tar.bz2
bunzip2 /home/your-user-name/Downloads/LosslessCut-linux-x64.tar.bz2
tar -xf /home/your-user-name/Downloads/LosslessCut-linux-x64.tar
#cp Losslesscut.desktop /usr/share/applications/losslesscut.desktop
#cp icon.png /opt/LosslessCut/resources/
chmod +x /usr/share/applications/losslesscut.desktop
#desktop-file-dnf update -y-validate
/usr/share/applications/losslesscut.desktop
#desktop-file-install /usr/share/applications/losslesscut.desktop
# make sure /opt/LosslessCut/losslesscut has group wheel and exec checked
chgrp -R wheel /opt/LosslessCut
chmod -R 775 /opt/LosslessCut

yes | cp /home/your-user-name/Downloads/desktop-files/*.* /home/your-
user-name/Desktop

#Brave Browser
```

```

dnf -y config-manager --add-repo https://brave-browser-rpm-
release.s3.brave.com/x86_64/
rpm --import https://brave-browser-rpm-release.s3.brave.com/brave-
core.asc
dnf -y install brave-browser

#Printers
# I already downloaded my Brother printer drivers and place in /Downloads
# only if neededgunzip linux-brprinter-installer-*.*.*.gz
bash linux-brprinter-installer-2.2.2-1 mfc-7860dw
bash linux-brprinter-installer-2.2.2-1 hl-3170cdw

#change your-user-name yo the user in /home/user
smbpasswd -a your-user-name
#all my Windows fonts are pre-copied to /Downloads/Fonts
cp /home/your-user-name/Downloads/Fonts/*. * to /usr/share/fonts/

#***** all manually run hereafter
#*****

#Microsoft Edge
#$ sudo rpm --import https://packages.microsoft.com/keys/microsoft.asc
#$ sudo dnf config-manager --add-repo
https://packages.microsoft.com/yumrepos/edge
#$ sudo mv /etc/yum.repos.d/packages.microsoft.com_yumrepos_edge.repo
/etc/yum.repos.d/microsoft-edge-dev.repo
#$ sudo dnf -y install microsoft-edge-dev

#visudo change to open from desktop
# Allows people in group wheel to run all commands
#comment out
#%wheel ALL=(ALL)          ALL

#uncomment
## Same thing without a password
%wheel ALL=(ALL:ALL)      NOPASSWD: ALL

#vi /etc/selinux/config
#set selinux to disabled

#to load Makemkv to take blue-ray and regular DVD's and make .mkv movies
dnf -y config-manager --add-repo=https://negativol7.org/repos/fedora-
multimedia.repo
dnf -y install makemkv

# get ccextractor
#wget https://negativol7.org/repos/multimedia/fedora-
37/x86_64/ccextractor-0.94-2.fc36.x86_64.rpm
dnf -y install ccextractor
#Edit makemkv and expert-advanced and location of ccextractor is
/bin/ccextractor
sudo dnf config-manager --set-disabled fedora-multimedia

```

The install process may take some time. Please wait until it is complete.

***** for plex server *****

cd /mnt

[root@plexfl mnt]# mkdir Plexdrive

[root@plexfl mnt]# chmod -R 775 /mnt/Plexdrive

[root@plexfl mnt]# chgrp wheel /mnt/Plexdrive

[root@plexfl mnt]#

The install process may take some time. Please wait until it is complete.

***** for plex server *****

Plex Media Server setup

Download latest Plex Media Server from plex.tv (currently

1.29.xxxxxxxxxx)

#install this specific version so playlists from iTunes will be imported.

dnf -y install /home/dagunny/Downloads/plex-servers/plexmediaserver-

1.17.0.1841-d42cfa161.x86_64.rpm

systemctl enable plexmediaserver.service && systemctl start

plexmediaserver

sudo gpasswd -a plex yourusername

chmod -R 755 /mnt/Plexdrive/ - your entire Plex XFS drive

In the firewall GUI - open Plex ports

To import iTunes Play Lists

edit the iTunes Media Library.xml to use the Linux path

file://localhost/mnt/Plexdrive/Music/...

Programs I have successfully run under Wine:

Search and Replace (Funduc)

iTunes

iTunes Export (playlists and songs to m3u) using Adobe Air (set clock to 1 Oct 2017)

Any Video Converter

Minitool Partition Manager (like gparted)

First Time startup

<http://localhost:32400/web>

firewall-cmd --zone=public --add-port=1900/udp --permanent

firewall-cmd --zone=public --add-port=5353/udp --permanent

firewall-cmd --zone=public --add-port=8324/tcp --permanent

firewall-cmd --zone=public --add-port=32410/udp --permanent

firewall-cmd --zone=public --add-port=32412/tcp --permanent

firewall-cmd --zone=public --add-port=32413/udp --permanent

firewall-cmd --zone=public --add-port=32414/udp --permanent

firewall-cmd --zone=public --add-port=32469/tcp --permanent

After Plexserver is all running, update to the 1.29 version.

#Add the fstab as follows for different drives

#if sharing ntfs drives with a Windows computer - do powercfg /hibernate off on the windows PC

UUID=1CA61CAA6F5EAE32 /Plexdrive ntfs

defaults,nls=utf8,umask=000,uid=1000,gid=1000,windows_names 0 0

for XFS drive

UUID=1CA61CAA6F5EAE32 /Plexdrive xfs defaults 0 0

for ext4

UUID=1CA61CAA6F5EAE32 /Plexdrive ext4 defaults 0 0

