

Small tricks on Fedora

Connect to a tagged "VLAN"

Basics

The network connection to a tagged vlan is not working very good on Fedora26 (gnome at least). The configuration per GUI as described into the [documentation](#) can't be done because "VLAN connections" isn't present into the GUI of the NetworkManager of Gnome.

Therefore the connection must be configured by hand:

- Go to `/etc/sysconfig/network-scripts/` and find the file containing the parameters of your "normal" LAN connection, `ifcfg-enp5s0` in my case
- Create a new file with the name syntax `ifcfg-interface.vlanID` (`ifcfg-enp5s0.60` in my case)
- Enter the parameters into this new file:

```
LAN=yes
DEVICE=enp5s0.60
BOOTPROTO=none
ONBOOT=yes
IPADDR=192.168.XXX.YYY      # the IP of your machine into the vlan
NETMASK=AAA.BBB.CCC.DDD   # the mask of the vlan
GATEWAY=192.168.XXX.YYY   # of the vlan
NETWORK=192.168.XXX.0     # of the vlan
DNS1=192.168.XXX.YYY     # of the vlan
```

- restart the networking

```
$ sudo systemctl restart network.service
```

The connection into the vlan should be now active (ping should be possible).

Activate and deactivate the VLAN

Going to the NetworkManager, the active vlan connection is now visible.

It is possible too to disable it.

But it is not possible to enable it again!

The way to re-enable the connection is to go to the connection-editor:

```
$ nm-connection-editor
```

Then it is possible to go into the parameters of the vlan connection (e.g. enable or disable its auto-start). Setting for auto-connection and saving the configuration will re-enable the vlan connection and then it is possible to disable it again via the NetworkManager.

For re-enabling, go again to the connection-editor and re-save the parameters.



Don't forget to deactivate the auto-connection into the connection-editor after closing the vlan connection per Network-Manager if the auto-connection to the vlan at reboot is not wished!

[Source 1](#) [Source 2](#)

Desactive SELinux

Temporary

```
# /usr/sbin/setenforce 0
```

to deactivate SELinux and

```
# /usr/sbin/setenforce 1
```

for reactivation.

Durable setting

Edit `/etc/selinux/config` and replace `SELINUX=enforcing` through

```
SELINUX=disabled
```

and reboot.

For reactivation, do the contrary.

Desactive the firewall

```
systemctl stop firewalld
```

and for a durable setting do in addition:

```
systemctl disable firewalld
```

Dia for diagrams

Set the resolution for export:

On export, specify the PNG (anti-aliased = **anti-crénelé** in french) (*.png) exporter. When you click Save, it will ask you for the resolution. Change either the X or Y, and it will scale up the other so your image is not distored. Do not use the Cairo or Pixbuf exporters, as they do not ask you.

To specify the PNG exporter, select File→Export, and at the bottom of the Export Diagram dialog is a section Export Options and the drop down to list the available exporters.

Digikam

If the top menu bar is not present (= bar for settings), press "Strg"+"m" which switches the menu bar on and off.

Driver for wifi interface RTL8821CE

https://www.reddit.com/r/Fedora/comments/bkk6dg/install_rtl8821ce_in_fedora/



pas installé car autre interface wifi sur l'ordi (cf rtl8723de)

```

$ sudo dnf install kernel kernel-headers kernel-core kernel-debug kernel-
debug-core kernel-debug-devel kernel-debug-modules kernel-debug-modules-
extra kernel-devel kernel-modules kernel-modules-extra make automake gcc
gcc-c++ kernel-devel git dkms dnf-utils wget unrar
Mot de passe :
Adobe Systems Incorporated
3.0 kB/s | 2.9 kB      00:00
Fedora Modular 30 - x86_64
24 kB/s | 24 kB      00:01
Fedora Modular 30 - x86_64 - Updates
30 kB/s | 24 kB      00:00
Fedora 30 - x86_64 - Updates
28 kB/s | 23 kB      00:00
Fedora 30 - x86_64 - Updates
1.3 MB/s | 23 MB     00:18

```


kernel-debug-modules-extra 5.2.9-200.fc30 2.2 M	updates	x86_64
kernel-devel 5.2.9-200.fc30 13 M	updates	x86_64
kernel-modules-extra 5.2.9-200.fc30 2.1 M	updates	x86_64
dkms 2.6.1-3.fc30 78 k	fedora	noarch
Installation des dépendances:		
cpp 9.2.1-1.fc30 9.8 M	updates	x86_64
elfutils-libelf-devel 0.177-1.fc30 23 k	updates	x86_64
kernel-debug-core 5.2.9-200.fc30 31 M	updates	x86_64
kernel-debug-modules 5.2.9-200.fc30 29 M	updates	x86_64
zlib-devel 1.2.11-17.fc30 46 k	updates	x86_64
autoconf 2.69-29.fc30 698 k	fedora	noarch
isl 0.16.1-8.fc30 796 k	fedora	x86_64
libmpc 1.1.0-3.fc30 56 k	fedora	x86_64
m4 1.4.18-10.fc30 210 k	fedora	x86_64
perl-Thread-Queue 3.13-2.fc30 21 k	fedora	noarch

Résumé de la transaction

```
=====
=====
=====
```

Installer 20 Paquets

Taille totale des téléchargements : 139 M

Taille des paquets installés : 331 M
Voulez-vous continuer ? [o/N] :

Driver for wifi interface RTL8723DE

<https://h30434.www3.hp.com/t5/Notebook-Wireless-and-Networking/Realtek-8723DE-wifi-module-amp-Bluetooth-Linux-driver/td-p/6477307/page/6>
<https://superuser.com/questions/1301390/bluetooth-not-working-for-realtek-rtl8723de-hci0-didnt-find-patch-for-chip-i/1322067#1322067> post du 12 mai 2018

```
$ git clone -b extended https://github.com/lwfinger/rtlwifi_new.git
$ cd rtlwifi_new/
```

```
sudo dnf install kernel-headers
```

```
$ sudo dnf install @development-tools
```

Mot de passe :
Dernière vérification de l'expiration des métadonnées effectuée il y a 0:09:10 le lun. 02 sept. 2019 20:25:32 CEST.
Dépendances résolues.

Paquet	Architecture
Version	Dépôt
Taille	

Installation des paquets du groupe/module:

patch	x86_64
2.7.6-11.fc30	updates
126 k	
subversion	x86_64
1.12.2-1.fc30	updates
1.1 M	
systemtap	x86_64
4.1-1.fc30	updates
7.2 k	
diffstat	x86_64
1.62-2.fc30	fedora
38 k	
doxygen	x86_64
1:1.8.15-6.fc30	fedora

4.3 M	
patchutils	x86_64
0.3.4-13.fc30	fedora
106 k	
Installation des dépendances:	
cpp	x86_64
9.2.1-1.fc30	updates
9.8 M	
gcc	x86_64
9.2.1-1.fc30	updates
23 M	
subversion-libs	x86_64
1.12.2-1.fc30	updates
1.5 M	
systemtap-client	x86_64
4.1-1.fc30	updates
3.6 M	
systemtap-devel	x86_64
4.1-1.fc30	updates
2.3 M	
systemtap-runtime	x86_64
4.1-1.fc30	updates
448 k	
utf8proc	x86_64
2.3.0-1.fc30	updates
63 k	
apr	x86_64
1.6.5-3.fc30	fedora
106 k	
apr-util	x86_64
1.6.1-10.fc30	fedora
90 k	
dyninst	x86_64
10.0.0-7.fc30	fedora
3.8 M	
efivar-libs	x86_64
37-1.fc30	fedora
90 k	
isl	x86_64
0.16.1-8.fc30	fedora
796 k	
libmpc	x86_64
1.1.0-3.fc30	fedora
56 k	
libserf	x86_64
1.3.9-11.fc30	fedora
54 k	
mokutil	x86_64
1:0.3.0-11.fc30	fedora
41 k	
xapian-core-libs	x86_64

```

1.4.10-1.fc30          fedora
737 k
Installation des dépendances faibles:
  kernel-devel          x86_64
5.2.9-200.fc30        updates
13 M
  apr-util-bdb          x86_64
1.6.1-10.fc30         fedora
12 k
  apr-util-openssl     x86_64
1.6.1-10.fc30         fedora
14 k
Installation des groupes:
  Development Tools

```

Résumé de la transaction

```

=====
=====
=====

```

Installer 25 Paquets

```

Taille totale des téléchargements : 65 M
Taille des paquets installés : 219 M
Voulez-vous continuer ? [o/N] :

```

```

$ git checkout origin/extended -b extended
fatal: Une branche nommée 'extended' existe déjà.
$ sudo make install
$ sudo modprobe rtl8723de

```

Enabling / Disabling Wayland

For gdm session manager:

```
# nano /etc/gdm/custom.conf
```

and comment / uncomment the line WaylandEnable=false

Gparted and Wayland

I noticed some issues between Gparted and Wayland: when Wayland is activated, Gparted refuses to

open <https://forums.fedora-fr.org/viewtopic.php?id=66732>

Solution to open Gparted:

```
$ xhost +local:root && sudo gparted && xhost -
```

Installation du pilote proprio Nvidia

Source:

https://doc.fedora-fr.org/wiki/Carte_graphique_NVIDIA:_installation_des_pilotes_propri%C3%A9taires

Sur une F30 fraîchement installée:

```
dnf install akmod-nvidia-340*
```

suffit!

Kdenlive: paramètres de rendu d'une vidéo

- WebM ou mp4 / H.264/AAC fast
- qualité vidéo: 20 (⇒ à confirmer!)
- débit audio: 160 (⇒ à confirmer!)
- si il y a des saccades dans la vidéo: Balayage: "forcer entrelacé" ou "forcer progressif"
- dans "plus d'option" sélectionner la vitesse d'encodage

OpenVPN and SELinux

In order to avoid that SELinux blocks the connection to a server OpenVPN, store the certificates and keys into the folder `~/ .cert/` and give permissions 600. Finally run as root: `# restorecon -R -v /home_folder/of/user/.cert`

Source: <http://forums.fedoraforum.org/showthread.php?t=296243>

PDF

- to fill out and view filled pdf-files ⇒ install `okular`
- to make some simple modifications (insert or delete pages, rotations etc...) to pdf files ⇒ install `pdfmod`
- to compress a pdf file: run following command:

```
$ gs -dBATCH -dNOPAUSE -q -sDEVICE=pdfwrite -sOutputFile=fichier_reduit.pdf fichier_a_reduire.pdf
```

Polices d'écritures supplémentaires

https://doc.fedora-fr.org/wiki/Comment_Installer_des_polices_de_caract%C3%A8res_suppl%C3%A9me_ ntaires_%3F

View the journal of NetworkManager

Logged as root:

```
journalctl -u NetworkManager.service
```

Wayland or Xorg is running??

```
$ echo $XDG_SESSION_TYPE  
x11
```

⇒ Xorg is running

or

```
$ echo $XDG_SESSION_TYPE  
wayland
```

⇒ wayland is running in this case

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