

Connexion Wifi

Suivre : https://wiki.st.com/stm32mpu/wiki/How_to_setup_wifi_connection#ifconfig

- connaître identifiant (SSID) et mot de passe wifi
 - exemple ici : SSID = Livebox-B7D0
 - <your_ssid_key> : à remplacer par mot de passe

```
root@stm32mp1:~# wpa_passphrase Livebox-B7D0 <your_ssid_key> >> /etc/wpa_supplicant.conf
```

```
root@stm32mp1:~# cat /etc/wpa_supplicant.conf
ctrl_interface=/var/run/wpa_supplicant
ctrl_interface_group=0
update_config=1

network={
    key_mgmt=NONE
}
network={
    ssid="Livebox-B7D0"
```

```
root@stm32mp1:~# wpa_supplicant -B -iwlan0 -c /etc/wpa_supplicant.conf
Successfully initialized wpa_supplicant
root@stm32mp1:~#
```

```
root@stm32mp1:~# iw wlan0 link
Connected to f0:81:75:76:b7:d0 (on wlan0)
    SSID: Livebox-B7D0
    freq: 2412
    RX: 3852 bytes (27 packets)
    TX: 4252 bytes (29 packets)
    signal: -44 dBm
    rx bitrate: 65.0 MBit/s
    tx bitrate: 24.0 MBit/s

    bss flags:          short-slot-time
    dtim period:       3
    beacon int:        100
```

```
root@stm32mp1:~# dhclient wlan0
root@stm32mp1:~# ip addr show wlan0
3: wlan0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:9d:6b:97:97:88 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.16/24 brd 192.168.1.255 scope global wlan0
        valid_lft forever preferred_lft forever
    inet6 2a01:cb05:5:8400:29d:6bff:fe97:9788/64 scope global dynamic mngtmpaddr
        valid_lft 1793sec preferred_lft 593sec
    inet6 fe80::29d:6bff:fe97:9788/64 scope link
        valid_lft forever preferred_lft forever
root@stm32mp1:~#
```

- Vérification de la connexion : ping de l'adresse ip présente sur le wlan0 ci-dessus.

```
root@stm32mp1:~# ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.
64 bytes from 192.168.1.1: icmp_seq=1 ttl=64 time=34.1 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=64 time=22.6 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=64 time=20.7 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=64 time=8.87 ms
64 bytes from 192.168.1.1: icmp_seq=5 ttl=64 time=17.9 ms
64 bytes from 192.168.1.1: icmp_seq=6 ttl=64 time=6.62 ms
64 bytes from 192.168.1.1: icmp_seq=7 ttl=64 time=14.7 ms
```

```
root@stm32mp1:~# echo "[Match]" > /lib/systemd/network/51-wireless.network
root@stm32mp1:~# echo "Name=wlan0" >> /lib/systemd/network/51-wireless.network
root@stm32mp1:~# echo "[Network]" >> /lib/systemd/network/51-wireless.network
root@stm32mp1:~# echo "DHCP=ipv4" >> /lib/systemd/network/51-wireless.network
root@stm32mp1:~# cat /lib/systemd/network/51-wireless.network
[Match]
Name=wlan0
[Network]
DHCP=ipv4
```

```
root@stm32mp1:~# ifconfig wlan0 up
root@stm32mp1:~# iw dev wlan0 scan |grep SSID
      SSID: Livebox-B7D0
```

```
root@stm32mp1:~# systemctl enable wpa_supplicant@wlan0.service
Created symlink /etc/systemd/system/multi-user.target.wants/wpa_supplicant@wlan0
.service → /lib/systemd/system/wpa_supplicant@.service.
root@stm32mp1:~#
root@stm32mp1:~# systemctl restart systemd-networkd.service
root@stm32mp1:~# systemctl restart systemd-networkd.service
root@stm32mp1:~# systemctl restart wpa_supplicant@wlan0.service
```

Si Network Unreachable après reboot par exemple :

- `rm /var/run/wpa_supplicant/wlan0`
- `wpa_supplicant -B -iwlan0 -c /etc/wpa_supplicant.conf`

[illegible]