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How to configure a Wifi without Network Manager

First step

- Make sure your drivers are properly installed and your network card is recognised
- Close Network-Manager (right clic in task bar => Quit)
- Open a terminal
- Login as a root (su)

```
username@pardus ~ $ su
Password : xxxxxxxxxx
pardus username #
```

- Set down all of your network interfaces :

```
pardus username # ifconfig eth0 down
pardus username # ifconfig eth1 down
```

Finding informations you need

- use the iwlist command to find out the information you need about your network. You need only two : the *ESSID* and the *channel*

```
pardus username # iwlist scanning

lo        Interface doesn't support scanning.
eth0      Interface doesn't support scanning.
eth1      Scan completed :
         Cell 01 - Address: 00:11:92:EE:1E:50
                   ESSID:"http://en.pardus-wiki.orgOWL-VISITOR"http://en.pardus-wiki.org
                   Protocol:IEEE 802.11bg
                   Mode:Master
                   Channel:1
                   Encryption key:off
                   Bit Rates:1 Mb/s; 2 Mb/s; 5.5 Mb/s; 6 Mb/s; 9 Mb/s
                             11 Mb/s; 12 Mb/s; 18 Mb/s; 24 Mb/s; 36 Mb/s
                             48 Mb/s; 54 Mb/s
                   Quality=41/100  Signal level=-76 dBm
                   Extra: Last beacon: 244ms ago
         Cell 02 - Address: 00:11:92:EE:1E:51
                   ESSID:"http://en.pardus-wiki.orgOWL-VPN"http://en.pardus-wiki.org
                   Protocol:IEEE 802.11bg
                   Mode:Master
                   Channel:1
```

```
                    Encryption key:off
                    Bit Rates:1 Mb/s; 2 Mb/s; 5.5 Mb/s; 6 Mb/s; 9 Mb/s
                              11 Mb/s; 12 Mb/s; 18 Mb/s; 24 Mb/s; 36 Mb/s
                              48 Mb/s; 54 Mb/s
                    Quality=35/100  Signal level=-79 dBm
                    Extra: Last beacon: 241ms ago
...
          Cell 09 - Address: 00:1B:2A:F7:77:53
                    ESSID:"http://en.pardus-wiki.orgPhysics_M"http://en.pardus-wiki.org
                    Protocol:IEEE 802.11bg
                    Mode:Master
                    Channel:4
                    Encryption key:on
                    Bit Rates:1 Mb/s; 2 Mb/s; 5.5 Mb/s; 6 Mb/s; 9 Mb/s
                              11 Mb/s; 12 Mb/s; 18 Mb/s; 24 Mb/s; 36 Mb/s
                              48 Mb/s; 54 Mb/s
                    Quality=37/100  Signal level=-78 dBm
                    Extra: Last beacon: 185ms ago
```

- Find out the right network, and remember the lines essid and channel.

Setting up your wifi network

- use iwconfig this way : iwconfig eth1 essid "http://en.pardus-wiki.orgnameofthenetwork"http://en.pardus-wiki.org mode Auto channel n°ofthechannel

For example, for the Physics_M network previously spotted :

```
pardus ouardane # iwconfig eth1 essid Physics_M mode Auto channel 4
```

- if your network is protected by a key, use iwconfig key. You have to know if your network is protected in an "http://en.pardus-wiki.orgopen"http://en.pardus-wiki.org way or a "http://en.pardus-wiki.orgrestricted"http://en.pardus-wiki.org way (meaning that some connection is possible or not without the key). If you don't know, just try the two. If your key is and HEX key (numbers and letters A,B,C,D,E or F) juste copy your key after, if it is not, it is an ASCII key, and you have to write *s:* before your key

For an open HEX key

```
pardus ouardane # iwconfig eth1 key open XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

For a restricted HEX key

```
pardus ouardane # iwconfig eth1 key restricted XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

For an open ASCII key

```
pardus ouardane # iwconfig eth1 key open s:XXXXXXXXXXXXXXXXXX
```

For an restricted ASCII key

```
pardus ouardane # iwconfig eth1 key restricted s:XXXXXXXXXXXXXXXXXX
```

Connect to internet !

- Set up your interface using ifconfig :

```
pardus username # ifconfig eth1 up
```

- Connect to internet :

```
pardus username # dhcpcd eth1
pardus username #
```

If the terminal wait for your instruction without returning an error, you are connected!