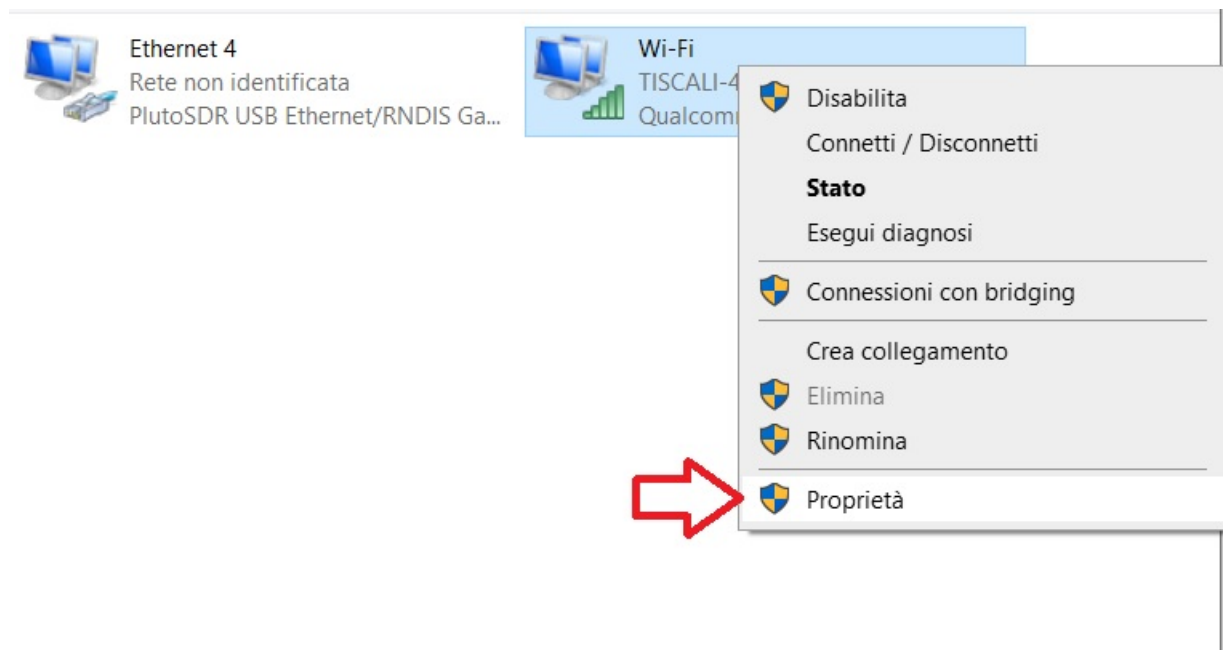


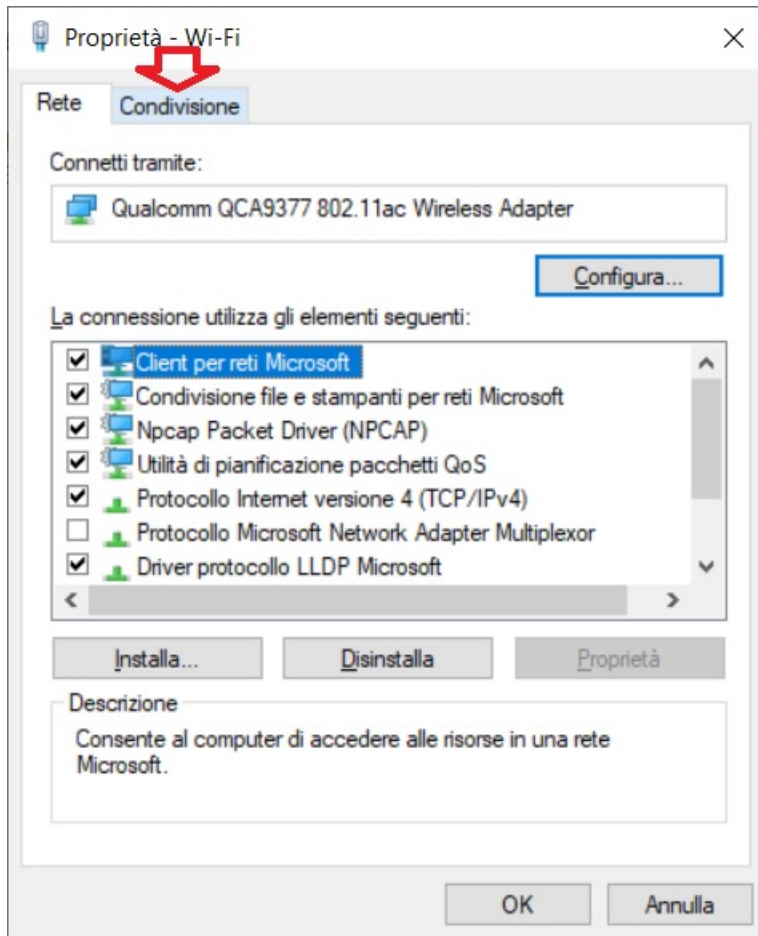
How to connect Adalm Pluto to the Internet without using the USB / Ethernet adapter

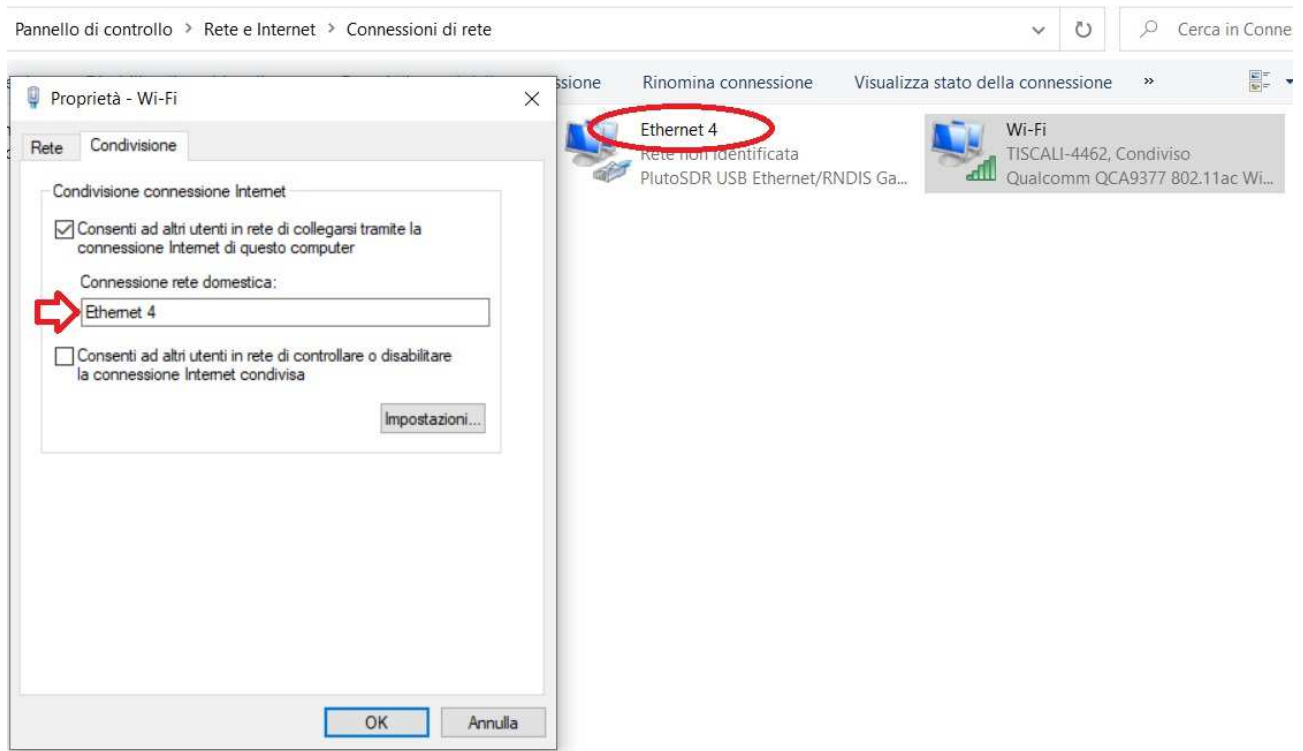
by Roberto ISOGRB

- 1- Access Pluto in SSH on its IP address 192.168.2.1 with (*root/analog*)
- 2- Enter the static route for the Internet on the Pluto:
route add default gw 192.168.2.10 usb0
- 3- On your PC, select the property item on the wired Ethernet or Wi-Fi network (the one currently connected to the Internet):

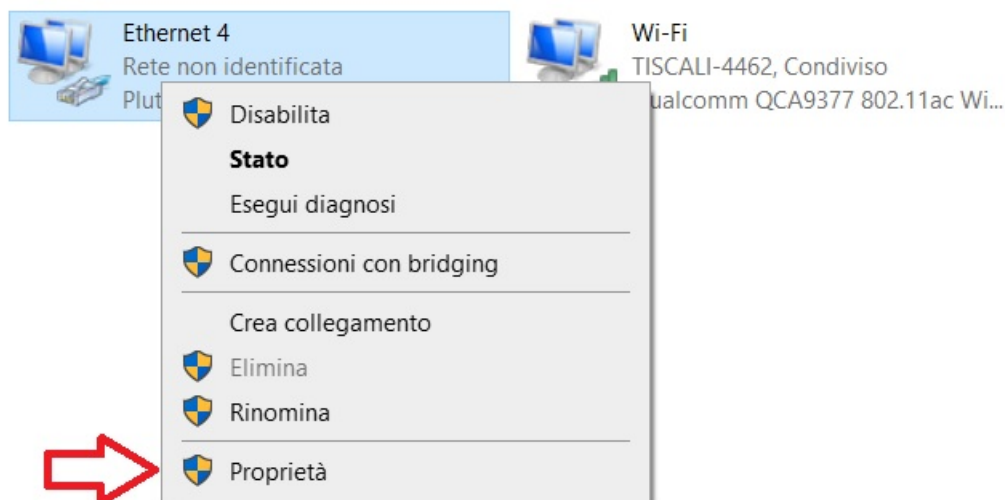


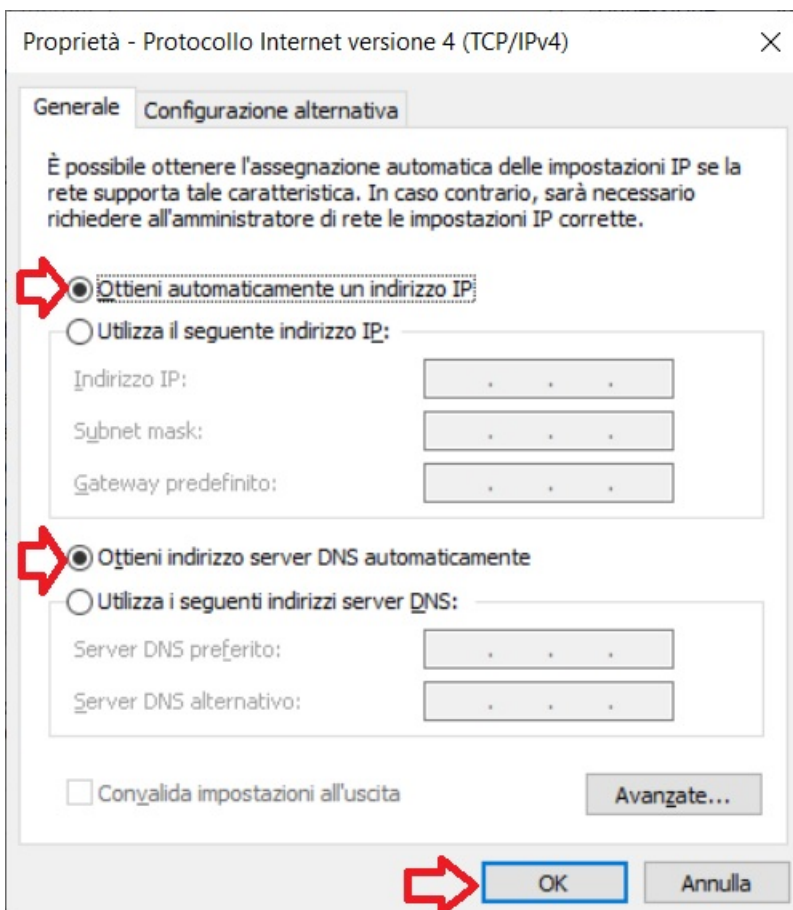
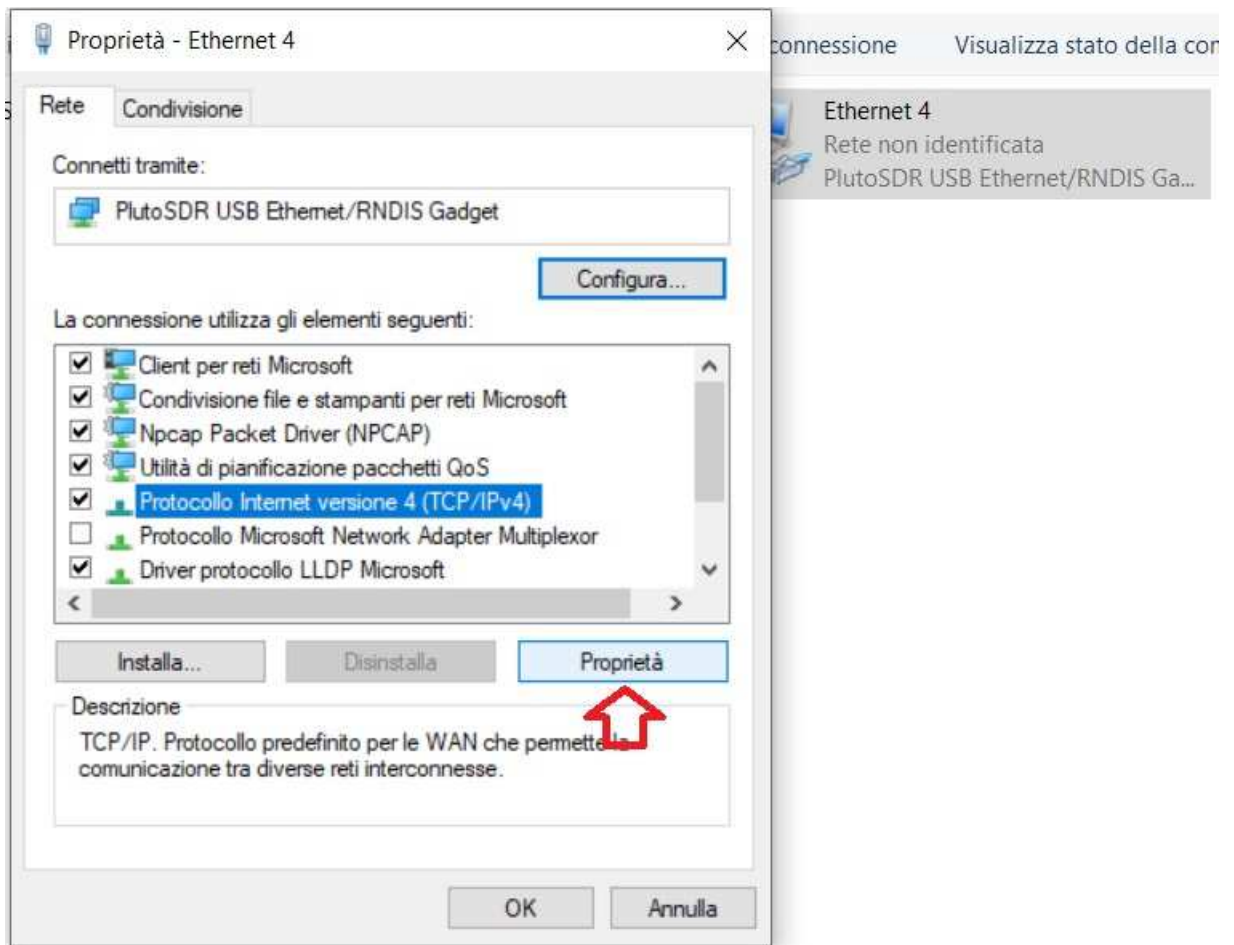
From the Sharing menu, activate "***Allow other users on the network ...***", then select the Pluto network, in my case **Ethernet4** and confirm with **OK**:





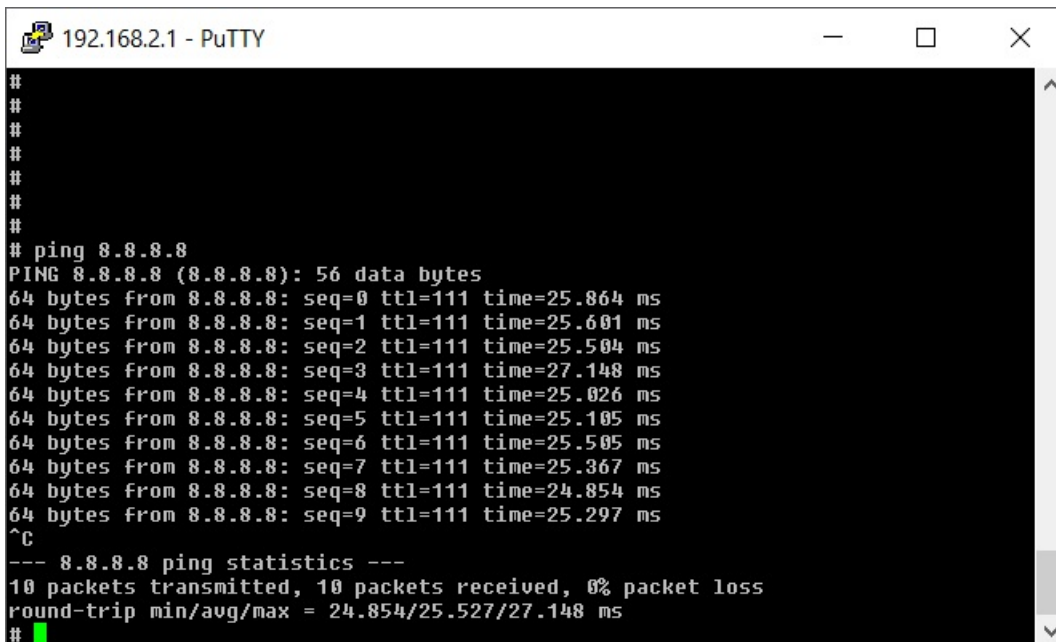
Now access the properties of the Pluto network, in my case **Ethernet4** and **select Automatic IP address and DNS**, as after the Windows Internet sharing is activated, it sets the wrong IP address 192.168.137.1 for the Pluto network, different from the one that it should have 192.168.2.10:





Let's now do the Internet achievement test from the Pluto:

ping 8.8.8.8

A screenshot of a PuTTY terminal window titled "192.168.2.1 - PuTTY". The terminal shows a series of hash symbols (#) followed by the command "# ping 8.8.8.8". The output displays "PING 8.8.8.8 (8.8.8.8): 56 data bytes" and ten lines of ping results, each showing "64 bytes from 8.8.8.8: seq=[0-9] ttl=111 time=[various] ms". Below the ping results, the user presses Ctrl-C (^C), and the terminal shows "--- 8.8.8.8 ping statistics ---", "10 packets transmitted, 10 packets received, 0% packet loss", and "round-trip min/avg/max = 24.854/25.527/27.148 ms". A green cursor is visible at the end of the final line.

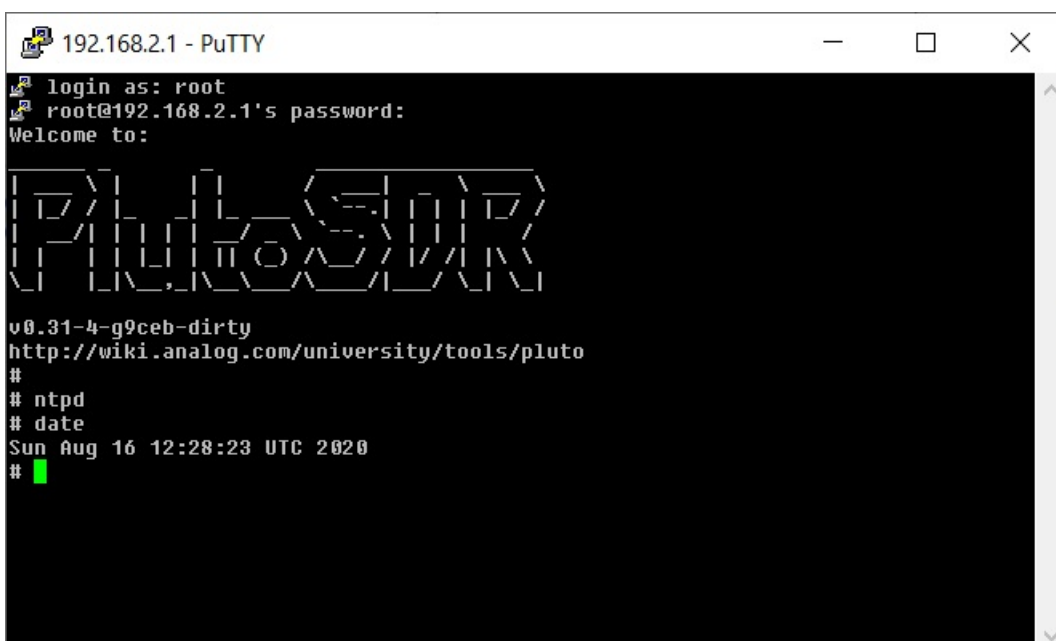
```
#
#
#
#
#
#
# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8): 56 data bytes
64 bytes from 8.8.8.8: seq=0 ttl=111 time=25.864 ms
64 bytes from 8.8.8.8: seq=1 ttl=111 time=25.601 ms
64 bytes from 8.8.8.8: seq=2 ttl=111 time=25.504 ms
64 bytes from 8.8.8.8: seq=3 ttl=111 time=27.148 ms
64 bytes from 8.8.8.8: seq=4 ttl=111 time=25.026 ms
64 bytes from 8.8.8.8: seq=5 ttl=111 time=25.105 ms
64 bytes from 8.8.8.8: seq=6 ttl=111 time=25.505 ms
64 bytes from 8.8.8.8: seq=7 ttl=111 time=25.367 ms
64 bytes from 8.8.8.8: seq=8 ttl=111 time=24.854 ms
64 bytes from 8.8.8.8: seq=9 ttl=111 time=25.297 ms
^C
--- 8.8.8.8 ping statistics ---
10 packets transmitted, 10 packets received, 0% packet loss
round-trip min/avg/max = 24.854/25.527/27.148 ms
#
```

By activating *ntpd* you can update the date and time of the Pluto

ntpd

With the *date* command you can see the correct date and time

date

A screenshot of a PuTTY terminal window titled "192.168.2.1 - PuTTY". The terminal shows a login sequence: "login as: root", "root@192.168.2.1's password:", and "Welcome to:". Below this is a large ASCII art logo for "PLUTO". Underneath the logo, the terminal displays "v0.31-4-g9ceb-dirty" and a URL "http://wiki.analog.com/university/tools/pluto". The user then enters "# ntpd" and "# date", and the terminal shows the output "Sun Aug 16 12:28:23 UTC 2020". A green cursor is visible at the end of the final line.

```
login as: root
root@192.168.2.1's password:
Welcome to:

PLUTO

v0.31-4-g9ceb-dirty
http://wiki.analog.com/university/tools/pluto
#
# ntpd
# date
Sun Aug 16 12:28:23 UTC 2020
#
```