

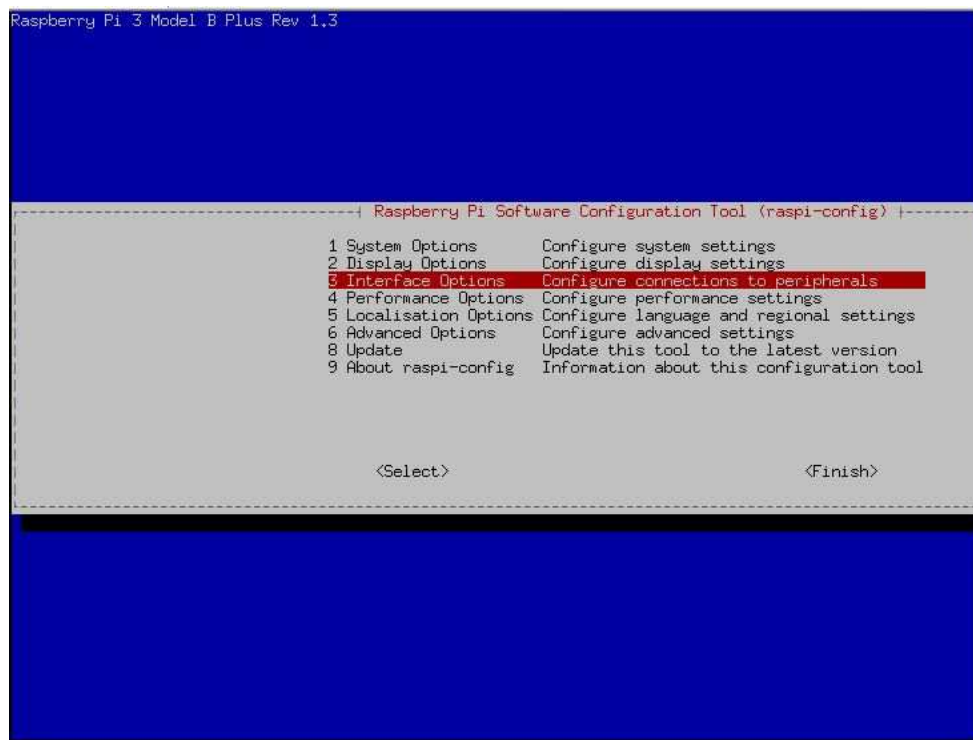
Installazione di SpyServer su raspberry Pi3 Pi3+ Pi4

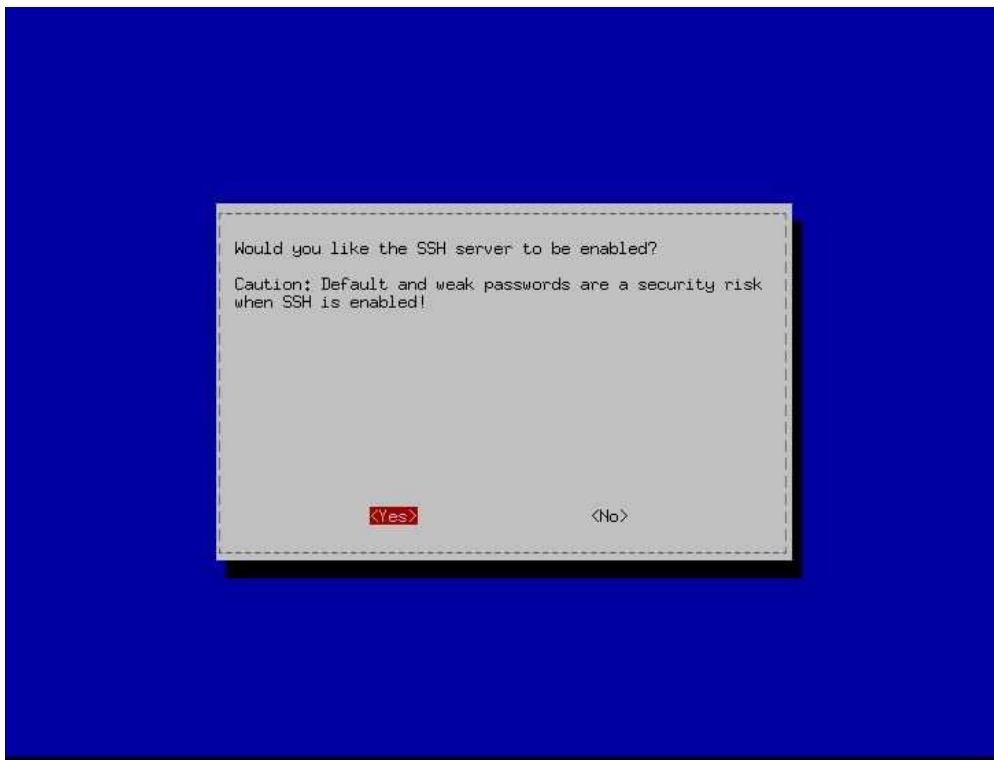
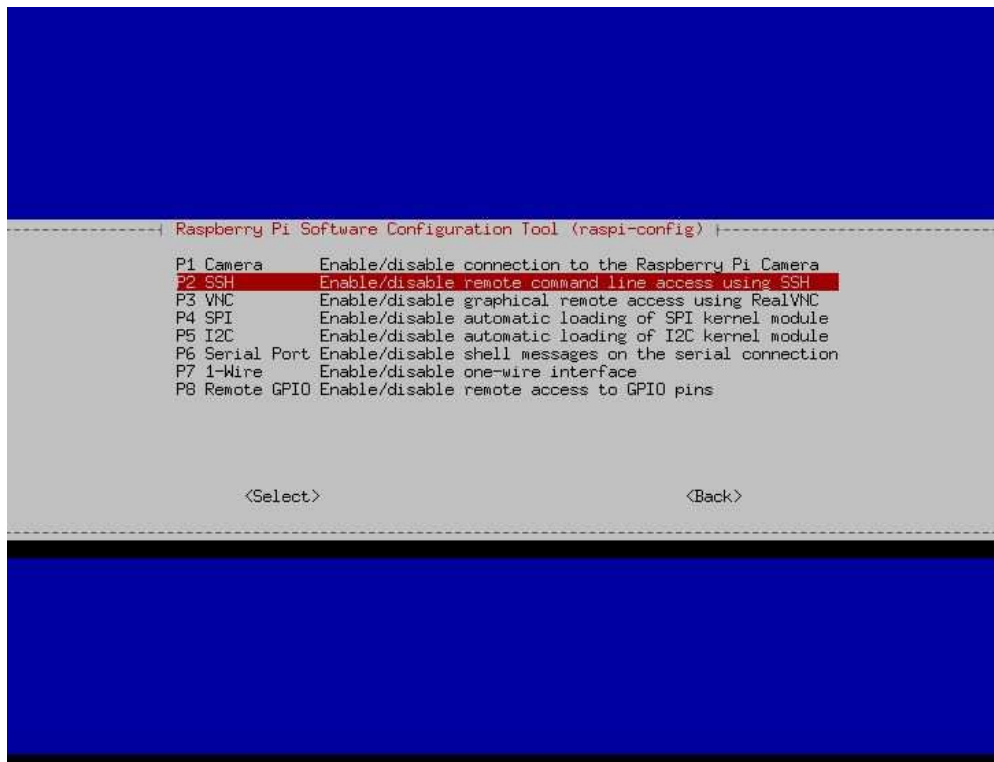
Scaricare dal sito <https://www.raspberrypi.org/software/> il software OS versione lite e su SD da 16Gb formattata installare S.O.



Installato il S.O. e dopo aver fatto accesso al RPI attivare il servizio SSH per accedere da remoto tramite putty o altro client SSH:

```
pi@raspberrypi:~ $ sudo raspi-config
```





Accedere da un client SSH (es. putty) ed eseguire il seguente comando da root (su root) dopo aver settato la password id root :

```
apt-get install rtl-sdr librtlsdr-dev
```

```

Linux raspberrypi 5.4.79-v7+ #1373 SMP Mon Nov 23 13:22:33 GMT 2020 armv7l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
last login: Fri Jan  8 12:46:58 2021 from 172.16.1.7

Wi-Fi is currently blocked by rfkill.
Use raspi-config to set the country before use.

pi@raspberrypi:~$ apt-get install rtl-sdr librtlsdr-dev
E: Could not open lock file /var/lib/dpkg/lock-frontent - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontent), are you root?
pi@raspberrypi:~$ su
Password:
root@raspberrypi:/home/pi# apt-get install rtl-sdr librtlsdr-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  librtlsdr0 libusb-1.0-0-dev libusb-1.0-doc
The following NEW packages will be installed:
  librtlsdr-dev librtlsdr0 libusb-1.0-0-dev libusb-1.0-doc rtl-sdr
0 upgraded, 5 newly installed, 0 to remove and 0 not upgraded.
Need to get 358 kB of archives.
After this operation, 2,122 kB of additional disk space will be used.
Do you want to continue? [Y/n]

```

Scaricare il programma Spyserver per la versione del vostro RPi dai seguenti link:

<https://airspy.com/?ddownload=4247> 32 bit ARM Pi3 Pi3+

<https://airspy.com/?ddownload=5795> 64 bit ARM Pi4

```

wget -O spyserver.tgz http://airspy.com/?ddownload=4247
O
wget -O spyserver.tgz http://airspy.com/?ddownload=5795

```

scompattare il file in una cartella /home/pi/Spyserver

```
mkdir /home/pi/Spyserver
```

```
cd Spyserver
```

```
tar xvfz spyserver.tgz
```

Configurare il file /home/pi/Spyserver/spyserver.config con i parametri corretti :

```

/home/pi/Spyserver/spyserver.config  [+M--] 21 L;C  1+ 9  10/1353  *(150./2605b) 0010 0x00A  [*][X]
# SPY Server Configuration File

# TCP Listener
#
bind_host = 172.16.1.166
bind_port = 8077

# List Server in Airspy Directory
#
list_in_directory = 1

# Owner Name^M
# For example: John Doe LBZEE^M
owner_name =^M
^M
# Owner email^M
# For example: john@doe.com^M
owner_email =^M
^M
# Antenna^M
# For example: Random Wire/Magnetic Loop/Mini-Whip/Inverted V/etc.^M
antenna_type =^M
^M
# Antenna Location^M
# For example: 49.558332, 2.294560^M
antenna_location =^M
^M
# General Description^M
#^M
general_description =^M
^M
# User sessions^M
#^M
maximum_clients = 1^M
^M
# Maximum session duration^M
# In minutes. 0 for no limit^M
#^M
maximum_session_duration = 30^M
^M
1Help  2Save  3Mark  4Replac  5Copy  6Move  7Search  8Delete  9FullLn  10Quit

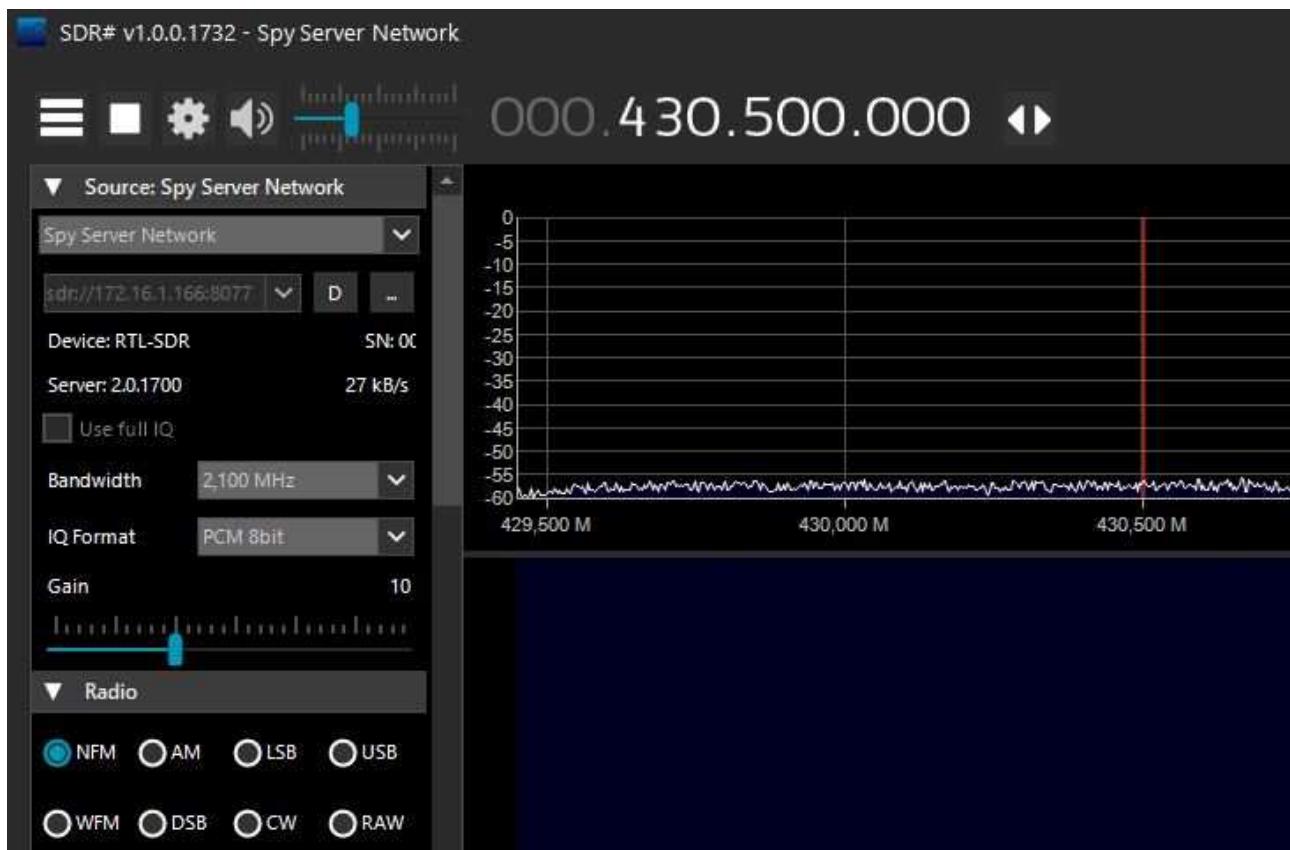
```

Dopo aver modificato correttamente il file di configurazione, lanciare il comando:

```
root@raspberrypi:/home/pi/Spyserver# ./spyserver
```

```
root@raspberrypi:/home/pi# cd Spyserver/  
root@raspberrypi:/home/pi/Spyserver# ./spyserver  
SPY Server v2.0.1700  
Copyright (C) 2016-2018 Youssef Touil - https://airspy.com  
Reading the configuration file: spyserver.config  
Listening for connections on 172.16.1.166:8077
```

Da un altro PC collegarsi con SDRSharp al server utilizzando come sorgente Spy Server Network e inserendo il Vs. IP e la porta desiderata `sdr://xx.xx.xx.xx:8077` :



Se tutto funziona correttamente, sarete connessi e sul raspberry comparirà la seguente videata:

```
root@raspberrypi:/home/pi# cd Spyserver/  
root@raspberrypi:/home/pi/Spyserver# ./spyserver  
SPY Server v2.0.1700  
Copyright (C) 2016-2018 Youssef Touil - https://airspy.com  
Reading the configuration file: spyserver.config  
Listening for connections on 172.16.1.166:8077  
Accepted client 172.16.1.7:61033 running SDR# v1.0.0.1732 on Microsoft Windows NT 6.2.9200.0  
Device was sleeping. Wake up!  
Detached kernel driver  
Found Rafael Micro R820T tuner  
Exact sample rate is: 2500000.107620 Hz  
[R82XX] PLL not locked!  
Acquired an RTL-SDR device  
Allocating 15 zero-copy buffers
```

L'installazione è terminata per lanciare in automatico Spyserver all'accensione del raspberry come servizio, il primo passo è creare un file chiamato `spyserver.service` e salvarlo in `/etc/systemd/system/`
`sudo nano /etc/systemd/system/spyserver.service`

Aggiungere il seguente testo al file e salvarlo

[Unit]

Description=Spy Server

Wants=network-online.target

After=network-online.target

[Service]

ExecStartPre=/bin/sleep 15

ExecStart=/home/pi/Spyserver/./spyserver spyserver.config

WorkingDirectory=/home/pi/Spyserver

StandardOutput=inherit

StandardError=inherit

Restart=always

User=pi

[Install]

WantedBy=multi-user.target

Ora puoi fare partire e fermare Spyserver con i seguenti comandi:

sudo systemctl start spyserver.service

sudo systemctl stop spyserver.service

sudo systemctl status spyserver.service

Questo comando attiva il servizio automaticamente al boot del raspberry:

sudo systemctl enable spyserver.service

by pino@ik1jns