

# Sound Monitor

## PC

### Prerequisite

```
sudo apt-get install netdiscover rrdtool cifs-utils  
  
# generate ssh keys  
ssh-keygen
```

gedit preferences → editor

```
tab width: 4  
check insert spaces instead of tabs
```

Discover RADXA

```
sudo netdiscover  
...  
192.168.2.44    ac:a2:13:42:1c:14 Shenzhen Bilian electronic CO.,LTD  
...
```

Upload key to RADXA (password is rock)

```
ssh-copy-id rock@192.168.x.y
```

### Connect

Connect to RADXA

```
# user rock, password rock  
ssh rock@192.168.x.y
```

connettersi alla rete WIFI (vedi sotto)

### Graphs

Mount remote share

```
mkdir /tmp/monitor  
sudo mount -t cifs -o uid=valerio,guest //192.168.2.44/monitor /tmp/monitor  
cd /tmp/monitor
```

Edit

```
gedit /tmp/monitor/monitor/capture.py
```

Generate graph

```
ssh rock@192.168.2.44 monitor_graph
```

## RADXA

- [radxa pro](#)
- battery CR1220 3V

## Python monitor

Project is in **/home/rock/monitor**

run

```
sudo systemctl stop monitor

# start in foreground
monitor_run

# stop with CTRL+C
```

edit code

```
nano ~/monitor/monitor/capture.py
```

## WIFI

```
sudo nmcli device wifi connect <ssid> password <password>
sudo reboot
# staccare la ethernet
```

## Service

/etc/systemd/system/monitor.service

```
[Unit]
Description=Monitor

[Service]
Type=simple
```

```
User=rock
ExecStart=/usr/local/bin/monitor_run
After=network.target
Wants=time-sync.target

[Install]
WantedBy=multi-user.target
```

Enable

```
systemctl enable monitor.service
```

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Permanent link:  
<https://wiki.csgalileo.org/tips/radxa/monitor?rev=1463142455>

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