

# Arp-Scan

**Arp-Scan** is a command line utility for scanning MAC addresses that are stored in the ARP Table. By default on Raspbian the timeout for ARP table entries is 60s, you can check `cat /proc/sys/net/ipv4/neigh/default/gc_stale_time` for exact time.

## Installation

To install Arp-Scan, from the command line enter: Note: you may have to do a `sudo apt-get update` first.

```
sudo apt-get install arp-scan
```

## Operation

To use **arp-scan** enter the following from the command line:

```
sudo arp-scan -l
```

**arp-scan** will not show the **local NIC** doing the scan mac address

## Example Output

```
Interface: eth0, datalink type: EN10MB (Ethernet)
Starting arp-scan 1.8.1 with 256 hosts (http://www.nta-monitor.com/tools/arp-scan/)
192.168.100.1    11:1d:aa:a6:66:1b    DrayTek Corp.
192.168.100.2    aa:ac:6f:0c:cf:66    Dell Inc
192.168.100.3    ac:da:0b:6b:cd:ab    (Unknown)
192.168.100.4    ab:61:bb:df:da:dd    (Unknown)
192.168.100.5    aa:00:eb:06:ba:bd    (Unknown)
192.168.100.6    aa:00:eb:a0:ba:ab    (Unknown)
192.168.100.7    aa:aa:b6:6a:ba:d1    (Unknown)
192.168.100.16   b1:bd:6c:1e:b6:bb    (Unknown)
192.168.100.61   11:1a:fb:bb:6b:a6    BSKyB Ltd
192.168.100.66   a6:aa:6e:b1:ba:d1    (Unknown)
192.168.100.66   a6:aa:6e:b1:ba:d1    (Unknown) (DUP: 2)
192.168.100.60   aa:ae:6a:0b:ba:a1    (Unknown)
192.168.100.62   11:ae:fa:f1:ab:aa    (Unknown)
192.168.100.63   fb:6c:ba:ec:1f:ab    (Unknown)
192.168.100.64   aa:ae:6a:1a:10:1d    (Unknown)
```

**\*Note:** these are fabricated IP and MAC Addresses so don't go looking for them :)

## Searching for a particular MAC

If there are a lot of devices on the network, and you know the MAC, you can search using **arp-scan** and filter the output with **grep**

```
sudo arp-scan -l | grep "MAC"
sudo arp-scan -l | grep "00:a1:d0:00-4a:01"
```

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