



The **arping** tool is designed to allow us to identify every machine on a local area network by means sending a broadcast ARP request. The basic arguments to use the tool are defined as follows. Please note that to use this tool you must be root.

We can use **arping** to identify if a specific IP is connected to the network, as follows:

```
kali@kali:~$ sudo arping -i eth0 192.168.2.12
ARPING 192.168.2.12
60 bytes from 00:0c:29:19:59:34 (192.168.2.12): index=0 time=606.833 usec
```

The following options are useful when performing an arping scan.

-c count	Only send count requests.
-i interface	Send the data out on a specific interface.
-p MAC	Turn on promiscuous mode on interface, use this if you don't "own" the MAC address
	you are using.
-s MAC	Set source MAC address. You may need to use −p with this
-S IP	Set the source IP address to be used
-T IP	Use -T as target address when pinging MACs that won't respond to a broadcast ping
	but perhaps to a directed broadcast. For example, to check the address of MAC-A,
	use knowledge of MAC-B and IP-B.
	<pre>\$ arping -S <ip-b> -s <mac-b> -p <mac-a></mac-a></mac-b></ip-b></pre>
-t MAC	Set target MAC address to use when pinging IP address.
-v	Verbose output. Use twice for more messages.
-V vlan	VLAN tag to set. Defaults to no VLAN tag.
-W sec	Time to wait between pings.

So, via a bit of BASH scripting we can use arping to scan all machines on a local area network. In the following example we can arping every machine on a class C network via the command arpinhsh.sh 192.168.2. This command will then perform a single arping against every machine on the network 192.168.2.0/24

Just as a note to end on we can as to an arp ping scan using NMAP as follows:

kali@kali:~\$ nmap -sP -PR 192.168.2.0/24