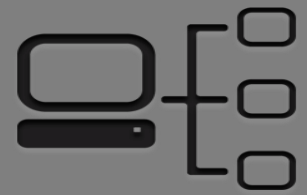


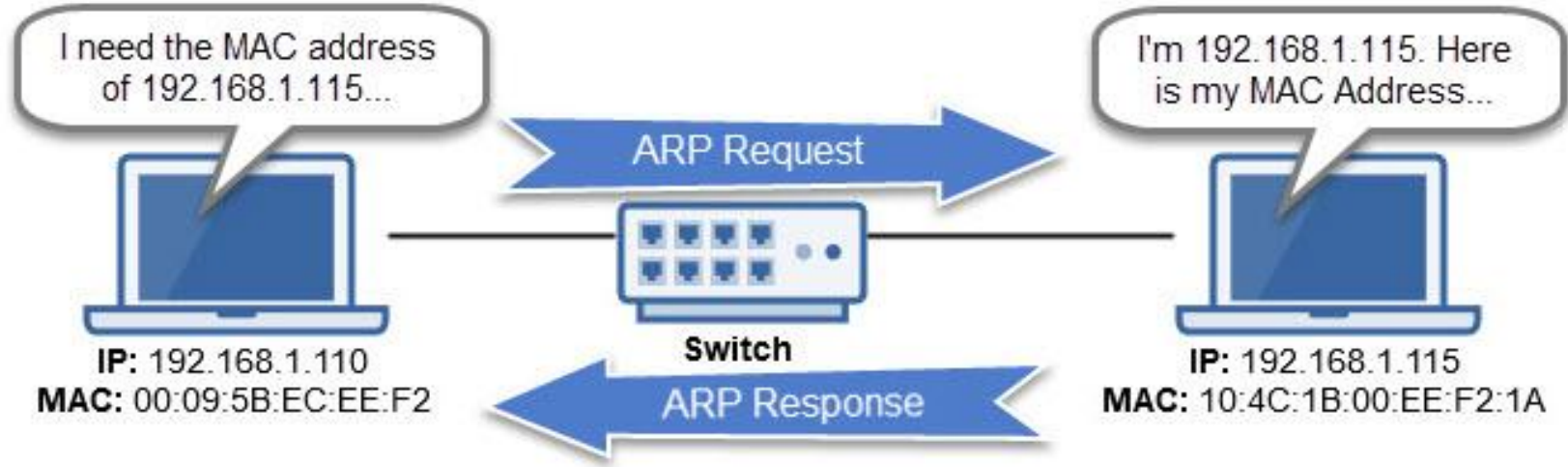
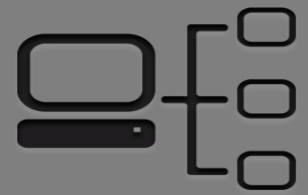
ARP – Address Resolution Protocol



- Resolves IP address to MAC Addresses
- Finds the hardware address of a host from a know IP address
 - And vice versa (RARP)
- ***ARP Command***

```
C:\Users\Alton>arp -a
Interface: 192.168.1.69 --- 0xc
Internet Address      Physical Address      Type
192.168.1.254        00-24-c8-98-13-60    dynamic
192.168.1.255        ff-ff-ff-ff-ff-ff    static
224.0.0.22           01-00-5e-00-00-16    static
224.0.0.251          01-00-5e-00-00-fb    static
224.0.0.252          01-00-5e-00-00-fc    static
239.255.255.250      01-00-5e-7f-ff-fa    static
255.255.255.255      ff-ff-ff-ff-ff-ff    static
```

ARP Diagram



If a computer knows an IP address but not the MAC address, it will send a **broadcast** message to all of the devices on the LAN asking what device is assigned that IP address.