

Capturing IP Resolution

ARP & IP Resolution

- » What is IP resolution?
- What does ARP do?
 - Helps resolve IP address to corresponding hardware addresses (Ethernet, MAC, BIA)
- Why capture this resolution with Wireshark?
 - Determine why a host may not be connecting to a network
 - Table instability
 - Spoofing
 - More



IP Resolution

ARP Request

Device tries to find the hardware address for a node based on the IP address it knows.









ARP Reply

Correct device provides the requested hardware address.



Wireshark & ARP

» ARP fundamentals

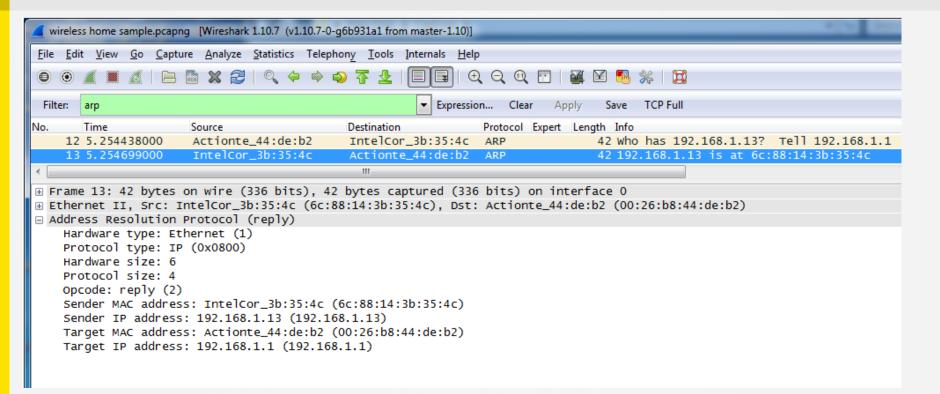
- Resolves IP addresses to MAC addresses
- Broadcast based
- Works in conjunction with other network devices

» Possible issues

- Sticky
- Storms
- Chattering
- Spoofing
- Sweeps
- Proxy
- Cache
- More



IP Resolution





Questions?