

```
>>> sr1(IP(dst="192.168.1.16")/UDP()/DNS(rd=1,qd=DNSQR(qname="google.com")))
Begin emission:
*Finished to send 1 packets.
*
Received 2 packets, got 1 answers, remaining 0 packets
<IP version=4L ihl=5L tos=0xc0 len=56 id=1105 flags= frag=0L ttl=255 proto=icmp
chksum=0x9ea3 src=10.0.2.2 dst=10.0.2.15 options=[] |<ICMP type=dest-unreach c
ode=port-unreachable chksum=0xdeb2 reserved=0 length=0 nexthopmtu=0 |<IPerror v
ersion=4L ihl=5L tos=0x0 len=56 id=1 flags= frag=0L ttl=63 proto=udp chksum=0xad
ed src=10.0.2.15 dst=192.168.1.16 options=[] |<UDPerro sport=domain dport=doma
in len=36 chksum=0x1dbc |>>>>

>>> sr1(IP(dst="192.168.1.16")/UDP()/DNS(rd=1,qd=DNSQR(qname="google.com",qtype=
"NS"))
Begin emission:
*Finished to send 1 packets.
*
Received 1 packets, got 1 answers, remaining 0 packets
<IP version=4L ihl=5L tos=0xc0 len=56 id=1104 flags= frag=0L ttl=255 proto=icmp
chksum=0x9ea4 src=10.0.2.2 dst=10.0.2.15 options=[] |<ICMP type=dest-unreach c
ode=port-unreachable chksum=0xdeb3 reserved=0 length=0 nexthopmtu=0 |<IPerror v
ersion=4L ihl=5L tos=0x0 len=56 id=1 flags= frag=0L ttl=63 proto=udp chksum=0xad
ed src=10.0.2.15 dst=192.168.1.16 options=[] |<UDPerro sport=domain dport=doma
in len=36 chksum=0x1dbc |>>>>

>>> traceroute(["www.google.com"],maxttl=10)
Begin emission:
*Finished to send 10 packets.
*
Received 10 packets, got 10 answers, remaining 0 packets
1 10.0.2.2 11
2 172.217.12.228 SA
3 172.217.12.228 SA
4 172.217.12.228 SA
5 172.217.12.228 SA
6 172.217.12.228 SA
7 172.217.12.228 SA
8 172.217.12.228 SA
9 172.217.12.228 SA
10 172.217.12.228 SA
(<Traceroute: TCP:0 UDP:0 ICMP:1 Other:0>, <Unanswered: TCP:0 UDP:0 ICMP:0 Other
:0>)
```

arp_req.pcap

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No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	74:d8:3e:54:ca:22	Broadcast	ARP	42	who has 192.168.1.3? Tell 192.168.1.7
2	0.004404	IntelCor_05:51:bd	74:d8:3e:54:ca:22	ARP	42	192.168.1.3 is at 34:e6:ad:05:51:bd

Frame 1: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)
Ethernet II, Src: 74:d8:3e:54:ca:22 (74:d8:3e:54:ca:22), Dst: Broadcast (ff:ff:ff:ff:ff:ff)
Address Resolution Protocol (request)
Hardware type: Ethernet (1)
Protocol type: IPv4 (6x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
Sender MAC address: 74:d8:3e:54:ca:22 (74:d8:3e:54:ca:22)
Sender IP address: 192.168.1.7
Target MAC address: 00:00:00:00:00:00 (00:00:00:00:00:00)
Target IP address: 192.168.1.3

0000 ff ff ff ff ff ff 74 d8 3e 54 ca 22 00 06 00 01E..SY..
0010 00 00 00 00 00 01 74 d8 3e 54 ca 22 c0 a8 01 07t..>T....
0020 00 00 00 00 00 00 c0 a8 01 03
Packets: 4 - Displayed: 4 (100.0%) Profile: Default