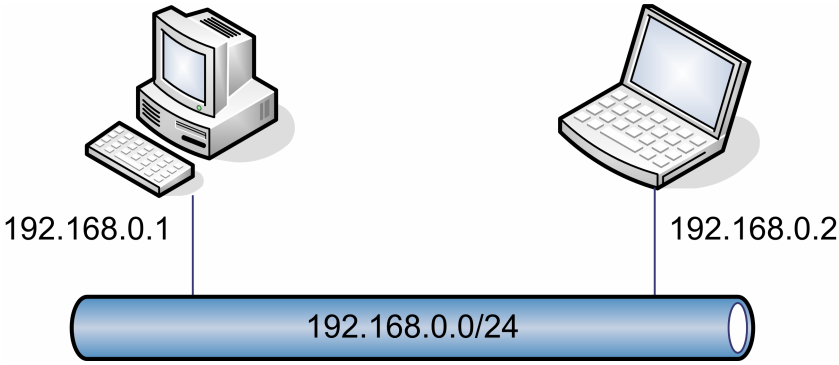
Schema della rete



ARP-request

```
No.     Time        Source                Destination           Protocol Info
      1 0.000000    192.168.0.1           Broadcast             ARP      Who has
192.168.0.2?  Tell 192.168.0.1

Frame 1 (42 bytes on wire, 42 bytes captured)
    Arrival Time: May 21, 2005 12:01:48.099955000
    Time delta from previous packet: 0.000000000 seconds
    Time since reference or first frame: 0.000000000 seconds
    Frame Number: 1
    Packet Length: 42 bytes
    Capture Length: 42 bytes
    Protocols in frame: eth:arp
Ethernet II, Src: 00:50:bf:e6:9e:d1, Dst: ff:ff:ff:ff:ff:ff
    Destination: ff:ff:ff:ff:ff:ff (Broadcast)
    Source: 00:50:bf:e6:9e:d1 (192.168.0.1)
    Type: ARP (0x0806)
Address Resolution Protocol (request)
    Hardware type: Ethernet (0x0001)
    Protocol type: IP (0x0800)
    Hardware size: 6
    Protocol size: 4
    Opcode: request (0x0001)
    Sender MAC address: 00:50:bf:e6:9e:d1 (192.168.0.1)
    Sender IP address: 192.168.0.1 (192.168.0.1)
    Target MAC address: 00:00:00:00:00:00 (00:00:00_00:00:00)
    Target IP address: 192.168.0.2 (192.168.0.2)

0000  ff ff ff ff ff ff 00 50 bf e6 9e d1 08 06 00 01   .......P........
0010  08 00 06 04 00 01 00 50 bf e6 9e d1 c0 a8 00 01   .......P........
0020  00 00 00 00 00 00 c0 a8 00 02                     ..........
```

ARP-reply

```
No.     Time        Source                Destination           Protocol Info
      2 0.005076    192.168.0.2           192.168.0.1           ARP
192.168.0.2 is at 00:c0:9f:10:08:25

Frame 2 (60 bytes on wire, 60 bytes captured)
    Arrival Time: May 21, 2005 12:01:48.105031000
    Time delta from previous packet: 0.005076000 seconds
    Time since reference or first frame: 0.005076000 seconds
    Frame Number: 2
    Packet Length: 60 bytes
    Capture Length: 60 bytes
    Protocols in frame: eth:arp
Ethernet II, Src: 00:c0:9f:10:08:25, Dst: 00:50:bf:e6:9e:d1
    Destination: 00:50:bf:e6:9e:d1 (192.168.0.1)
    Source: 00:c0:9f:10:08:25 (192.168.0.2)
    Type: ARP (0x0806)
    Trailer: 81D729100001000000000001204142414346
Address Resolution Protocol (reply)
    Hardware type: Ethernet (0x0001)
    Protocol type: IP (0x0800)
    Hardware size: 6
    Protocol size: 4
    Opcode: reply (0x0002)
    Sender MAC address: 00:c0:9f:10:08:25 (192.168.0.2)
    Sender IP address: 192.168.0.2 (192.168.0.2)
    Target MAC address: 00:50:bf:e6:9e:d1 (192.168.0.1)
    Target IP address: 192.168.0.1 (192.168.0.1)

0000  00 50 bf e6 9e d1 00 c0 9f 10 08 25 08 06 00 01   .P.........%....
0010  08 00 06 04 00 02 00 c0 9f 10 08 25 c0 a8 00 02   ...........%....
0020  00 50 bf e6 9e d1 c0 a8 00 01 81 d7 29 10 00 01   .P..........)...
0030  00 00 00 00 00 01 20 41 42 41 43 46               ...... ABACF
```

ICMP Echo-request (ping)

```
No.     Time        Source                Destination           Protocol Info
      3 0.005679    192.168.0.1           192.168.0.2           ICMP     Echo
(ping) request

Frame 3 (74 bytes on wire, 74 bytes captured)
    Arrival Time: May 21, 2005 12:01:48.105634000
    Time delta from previous packet: 0.000603000 seconds
    Time since reference or first frame: 0.005679000 seconds
    Frame Number: 3
    Packet Length: 74 bytes
    Capture Length: 74 bytes
    Protocols in frame: eth:ip:icmp:data
Ethernet II, Src: 00:50:bf:e6:9e:d1, Dst: 00:c0:9f:10:08:25
    Destination: 00:c0:9f:10:08:25 (192.168.0.2)
    Source: 00:50:bf:e6:9e:d1 (192.168.0.1)
    Type: IP (0x0800)
Internet Protocol, Src Addr: 192.168.0.1 (192.168.0.1), Dst Addr: 192.168.0.2
(192.168.0.2)
    Version: 4
    Header length: 20 bytes
    Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00)
        0000 00.. = Differentiated Services Codepoint: Default (0x00)
        .... ..0. = ECN-Capable Transport (ECT): 0
        .... ...0 = ECN-CE: 0
    Total Length: 60
    Identification: 0x2b60 (11104)
    Flags: 0x00
        0... = Reserved bit: Not set
        .0.. = Don't fragment: Not set
        ..0. = More fragments: Not set
    Fragment offset: 0
    Time to live: 128
    Protocol: ICMP (0x01)
    Header checksum: 0x8e0d (correct)
    Source: 192.168.0.1 (192.168.0.1)
    Destination: 192.168.0.2 (192.168.0.2)
Internet Control Message Protocol
    Type: 8 (Echo (ping) request)
    Code: 0
    Checksum: 0x425c (correct)
    Identifier: 0x0200
    Sequence number: 0x0900
    Data (32 bytes)

0000  00 c0 9f 10 08 25 00 50 bf e6 9e d1 08 00 45 00   .....%.P......E.
0010  00 3c 2b 60 00 00 80 01 8e 0d c0 a8 00 01 c0 a8   .<+`............
0020  00 02 08 00 42 5c 02 00 09 00 61 62 63 64 65 66   ....B\....abcdef
0030  67 68 69 6a 6b 6c 6d 6e 6f 70 71 72 73 74 75 76   ghijklmnopqrstuv
0040  77 61 62 63 64 65 66 67 68 69                     wabcdefghi
```

ICMP Echo-reply (ping)

```
No.     Time        Source                Destination           Protocol Info
      4 0.008611    192.168.0.2           192.168.0.1           ICMP     Echo
(ping) reply

Frame 4 (74 bytes on wire, 74 bytes captured)
    Arrival Time: May 21, 2005 12:01:48.108566000
    Time delta from previous packet: 0.002932000 seconds
    Time since reference or first frame: 0.008611000 seconds
    Frame Number: 4
    Packet Length: 74 bytes
    Capture Length: 74 bytes
    Protocols in frame: eth:ip:icmp:data
Ethernet II, Src: 00:c0:9f:10:08:25, Dst: 00:50:bf:e6:9e:d1
    Destination: 00:50:bf:e6:9e:d1 (192.168.0.1)
    Source: 00:c0:9f:10:08:25 (192.168.0.2)
    Type: IP (0x0800)
Internet Protocol, Src Addr: 192.168.0.2 (192.168.0.2), Dst Addr: 192.168.0.1
(192.168.0.1)
    Version: 4
    Header length: 20 bytes
    Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00)
        0000 00.. = Differentiated Services Codepoint: Default (0x00)
        .... ..0. = ECN-Capable Transport (ECT): 0
        .... ...0 = ECN-CE: 0
    Total Length: 60
    Identification: 0xa127 (41255)
    Flags: 0x00
        0... = Reserved bit: Not set
        .0.. = Don't fragment: Not set
        ..0. = More fragments: Not set
    Fragment offset: 0
    Time to live: 128
    Protocol: ICMP (0x01)
    Header checksum: 0x1846 (correct)
    Source: 192.168.0.2 (192.168.0.2)
    Destination: 192.168.0.1 (192.168.0.1)
Internet Control Message Protocol
    Type: 0 (Echo (ping) reply)
    Code: 0
    Checksum: 0x4a5c (correct)
    Identifier: 0x0200
    Sequence number: 0x0900
    Data (32 bytes)

0000  00 50 bf e6 9e d1 00 c0 9f 10 08 25 08 00 45 00   .P.........%..E.
0010  00 3c a1 27 00 00 80 01 18 46 c0 a8 00 02 c0 a8   .<.'.....F......
0020  00 01 00 00 4a 5c 02 00 09 00 61 62 63 64 65 66   ....J\....abcdef
0030  67 68 69 6a 6b 6c 6d 6e 6f 70 71 72 73 74 75 76   ghijklmnopqrstuv
0040  77 61 62 63 64 65 66 67 68 69                     wabcdefghi
```