**WSA6**

2448025  
  
A screenshot of a computer screen

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Request:

A screenshot of a computer program

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Response:

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1. Request:

* Source Adress : 192.168.1.96
* Destination Adress : 8.8.8.8

Reply:

* Source Adress : 8.8.8.8
* Destination Adress : 192.168.1.96

1. The ICMP packet was created to transfer network-layer data between hosts and routers, not between application layer processes, so it does not contain source or destination port numbers.
2. a) Purpose of the "type" field:

- The "type" field is an 8-bit field that specifies the purpose or function of the ICMP message. It indicates whether the packet is an ICMP request or reply.

b) Purpose of the "code" field:

- The "code" field is also an 8-bit field, and it provides additional information or details related to the "type." It enhances the data that the "type" field conveys.

c) Request:   
The ICMP message has a "Type" value of 8, indicating an echo request (ping). The "Code" field is 0, suggesting that this is a standard echo request without any specific code details.

Response:   
The ICMP message has a "Type" value of 0, signaling an echo reply in response to the previous echo request. Like the request, the "Code" field is 0, indicating a standard echo reply without additional code details.

1. The IP datagram Total Length = 60 bytes.

The IP header Length = 20 bytes.

The type field = 1 byte,   
Code = 1 byte,   
Checksum = 2 bytes,  
Identifier = 2 bytes,   
Sequence number = 2 bytes  
The remaining 32 bytes are Data.

1. The routing table suggests that the default route directs traffic to the gateway, enabling communication with external networks. If we wish to stop our machine from sending ICMP echo requests, we can modify or remove this default route.
2. a) Source: MicroStarINT\_ce:f3:b2 (2c:f0:5d:ce:f3:b2)  
   b) Destination: ZyxelCommuni\_28:d7:dc (e4:18:6b:28:d7:dc)

c) All the packets I have sniffed has Type: IPv4 (0x0800). The type of protocol contained in a data link layer frame is indicated in Wireshark's Layer 2 Type field. The next layer's protocol is identified by the Type field, which is a component of the Ethernet frame header. In Wireshark, the value "Type: IPv4 (0x0800)" indicates that an IPv4 packet is encapsulated in an Ethernet frame..

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