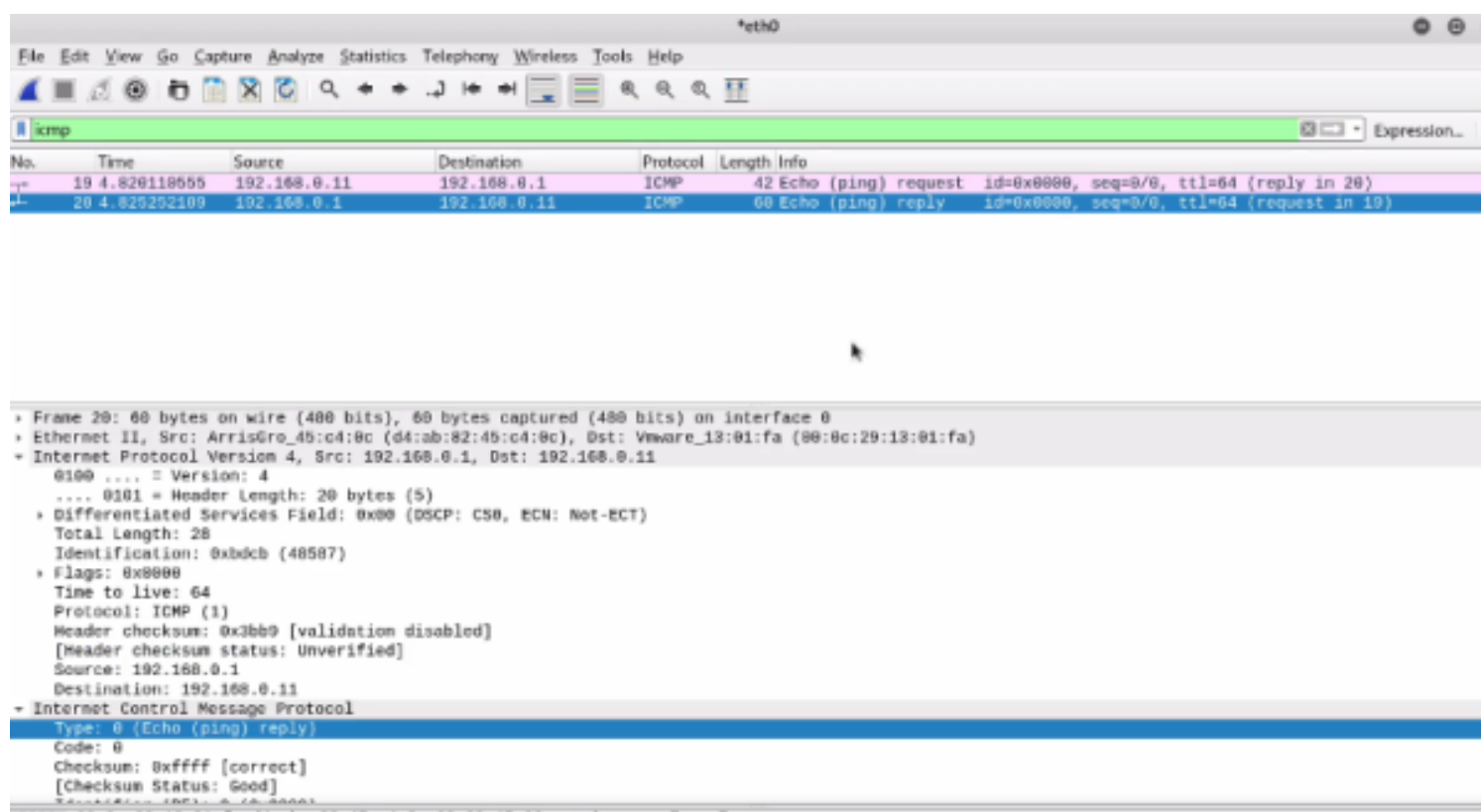


Criando Pacotes ICMP e Payloads

+ Para enviar um pacote icmp dentro do pacote ip que criamos na aula passada, basta executarmos:

```
>>> pacote = pIP/ICMP()
>>> resposta = srl(pacote)
Begin emission:
.Finished sending 1 packets.
*
Received 2 packets, got 1 answers, remaining 0 packets
```

+ Podemos ver o encapsulamento pelo wireshark:



+ Para fazer um pacote com payload, podemos também

```
>>> pacote = pIP/ICMP()/"DESEC SECURITY"
>>> resposta = srl(pacote)
```

icmp						
No.	Time	Source	Destination	Protocol	Length	Info
16	3.377567073	192.168.0.11	192.168.0.1	ICMP	56	Echo (ping) request id=0x0000, seq=0/0,
17	3.380293372	192.168.0.1	192.168.0.11	ICMP	60	Echo (ping) reply id=0x0000, seq=0/0,

▶ Frame 16: 56 bytes on wire (448 bits), 56 bytes captured (448 bits) on interface 0

▶ Ethernet II, Src: Vmware_13:01:fa (00:0c:29:13:01:fa), Dst: ArrisGro_45:c4:0c (d4:ab:82:45:c4:0c)

▶ Internet Protocol Version 4, Src: 192.168.0.11, Dst: 192.168.0.1

- Internet Control Message Protocol

Type: 8 (Echo (ping) request)
 Code: 0
 Checksum: 0xe017 [correct]
 [Checksum Status: Good]
 Identifier (BE): 0 (0x0000)
 Identifier (LE): 0 (0x0000)
 Sequence number (BE): 0 (0x0000)
 Sequence number (LE): 0 (0x0000)
[\[Response frame: 17\]](#)

- Data (14 bytes)

Data: 4445534543205345435552495459
 [Length: 14]

0000	d4 ab 82 45 c4 0c 00 0c	29 13 01 fa 08 00 45 00	...E...)...E-
0010	00 2a 00 01 00 00 40 01	f9 75 c0 a8 00 0b c0 a8	..*...@..0.....
0020	00 01 08 00 e0 17 00 00	00 00 44 45 53 45 43 20DESEC
0030	53 45 43 55 52 49 54 59		SECURITY