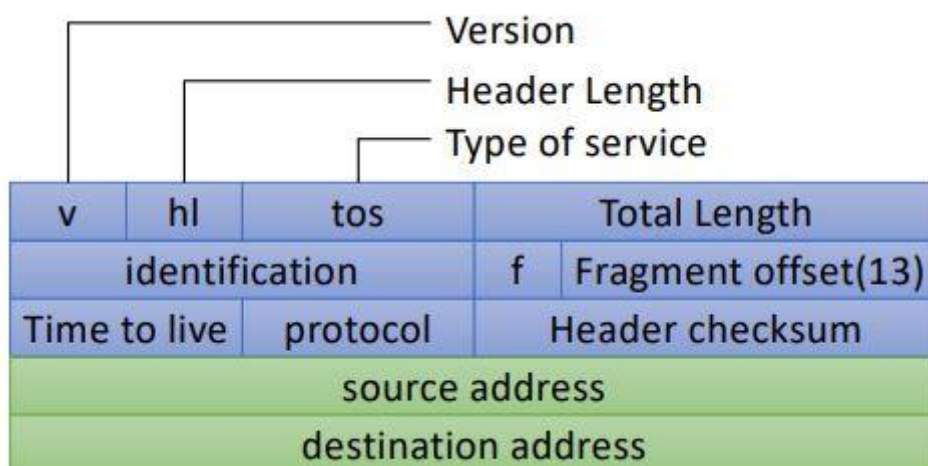


Aufgabe 1 (Pakete tcp4&upd21: Info nur zum selber wiederfinden :D)

```
Internet Protocol Version 4, Src: 162.159.136.234, Dst: 192.168.178.20
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  ▾ Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 78
  Identification: 0x6f9e (28574)
  ▾ 010. .... = Flags: 0x2, Don't fragment
    0... .... = Reserved bit: Not set
    .1.. .... = Don't fragment: Set
    ..0. .... = More fragments: Not set
  ...0 0000 0000 0000 = Fragment Offset: 0
  Time to Live: 57
  Protocol: TCP (6)
  Header Checksum: 0x33c5 [validation disabled]
  [Header checksum status: Unverified]
  Source Address: 162.159.136.234
  Destination Address: 192.168.178.20
```

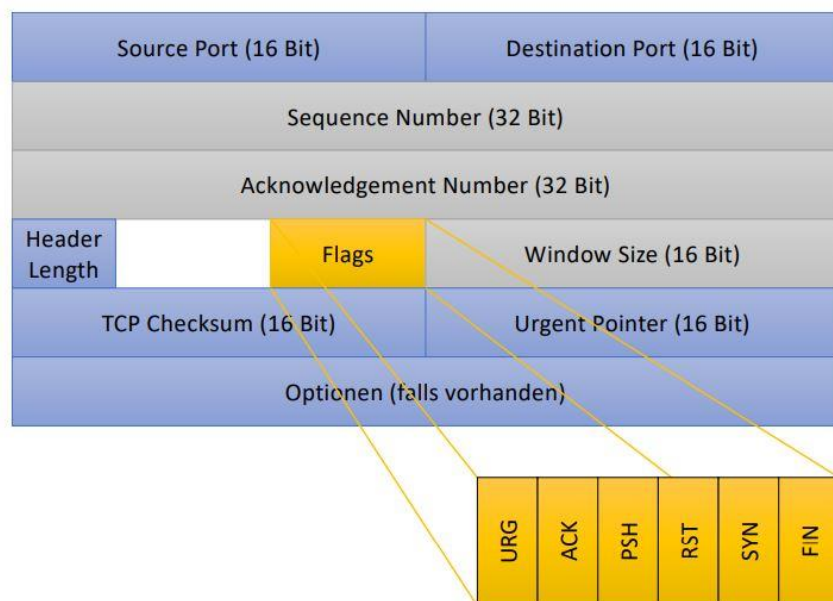
Https Verbindung.



```

Transmission Control Protocol, Src Port: 443, Dst Port: 51789, Seq: 1, Ack: 1, Len: 38
Source Port: 443
Destination Port: 51789
[Stream index: 0]
▶ [Conversation completeness: Incomplete (12)]
[TCP Segment Len: 38]
Sequence Number: 1 (relative sequence number)
Sequence Number (raw): 3871142788
[Next Sequence Number: 39 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
Acknowledgment number (raw): 1436442458
0101 .... = Header Length: 20 bytes (5)
▼ Flags: 0x018 (PSH, ACK)
  000. .... = Reserved: Not set
  ...0 .... = Accurate ECN: Not set
  .... 0... = Congestion Window Reduced: Not set
  .... .0.. = ECN-Echo: Not set
  .... ..0. = Urgent: Not set
  .... ...1 = Acknowledgment: Set
  .... ....1... = Push: Set
  .... .....0.. = Reset: Not set
  .... .... ..0. = Syn: Not set
  .... .... ...0 = Fin: Not set
  [TCP Flags: .....AP...]
Window: 8
[Calculated window size: 8]
[Window size scaling factor: -1 (unknown)]
Checksum: 0xa418 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
▶ [Timestamps]
▶ [SEQ/ACK analysis]
TCP payload (38 bytes)

```



```

User Datagram Protocol, Src Port: 56923, Dst Port: 27018
Source Port: 56923
Destination Port: 27018
Length: 92
Checksum: 0x06d8 [unverified]
[Checksum Status: Unverified]
[Stream index: 0]
▼ [Timestamps]
  [Time since first frame: 0.000000000 seconds]
  [Time since previous frame: 0.000000000 seconds]
UDP payload (84 bytes)

```

Source port	Destination port
UDP length	UDP checksum

Aufgabe 2

103.161.122.83 ist eine IP-Adresse.

Bei /18 handelt es sich um eine CIDR-Notation, die die Subnetzmaske angibt.

/18 gibt uns an, dass die ersten 18 Bits der IP-Adresse für das Netzwerksignal verwendet werden und die restlichen 14 Bits für die Hostadresse.

Subnetzmaske: 255.255.192.0

255.255.192.0 <- 11111111.11111111.11000000.00000000

Netzwerkadresse: 130.161.64.0

103.161.122.83 -> 01100111.10100001.01111010.01010011

255.255.192.0 -> 11111111.11111111.11000000.00000000

130.161.64.0 <- 01100111.10100001.01000000.00000000

Broadcastadresse: 103.161.127.255

130.161.64.0 -> 01100111.10100001.01000000.00000000

14 Host-Bits -> 00000000.00000000.00111111.11111111

103.161.127.255 <- 01100111.10100001.01111111.11111111

103.161.193.83/18 prüfen:

103.161.193.83 -> 01100111.10100001.11000001.01010011

255.255.192.0 -> 11111111.11111111.11000000.00000000

103.161.192.0 <- 01100111.10100001.11000000.00000000

Folglich liegen beide Adressen nicht im selben Netz.