

3. 18.165.201.14 → 149.153.106.156

Port: 443

Seq: 1138704

Ack: 146920

Total length: 52

Time to live: 244

Protocol: TCP(6)

Header: 20 bytes

IP	20 byte	Non-60	52	
Oxa 5f1			0001	0
244	TCP(6)	0x4409		
18.165.201.14				
149.153.106.156				
12 bytes				
66 bytes				

Version	Header Length	Tos	Total Length	
Identifier			Flags	Fragment Offset
TTL	Protocol	Header checksum		
Source IP				
Destination IP				
Options (length)				
Data				

Version  $\rightarrow$  It declares if it is an IPv4 address or IPv6  
IPv4 is 32 bit, IPv6 is 128 bit.

Header length  $\rightarrow$  Shows the length of header and is a pointer to the start of the payload

Type of Service  $\rightarrow$  used to classify IP packets so that routers can decide what path should packets traverse

Total length  $\rightarrow$  total size of the packet

Identifier  $\rightarrow$  value used to identify data fragments  $\Rightarrow$  UNIQUE

Flags  $\rightarrow$  used to control how a specific IP packet is treated by a device

Fragment Offset  $\rightarrow$  used to indicate the starting position of the data in the fragment in relation to the original packet

TTL  $\rightarrow$  amount of time that a packet is set to exist inside a network

Protocol  $\rightarrow$  TCP and UDP  $\rightarrow$  identifies what protocol is used inside a packet

Header Checksum  $\rightarrow$  Checking if a packet sent over the network is corrupted

Source IP  $\rightarrow$  The source address the packet is coming from

Destination IP  $\rightarrow$  the final address the packet is traversing to

Options  $\rightarrow$  Adds more instructions what to do with a datagram that is not provided in default headers.

Data  $\rightarrow$  source address, destination address, protocol and packet number

5.

6. Counter-Strike Global Offensive  $\rightarrow$  Tactical Multiplayer, Rewarding  
Marvels Spider-Man  $\rightarrow$  Relaxing Adventure, Raytracing, Aesthetic  
Rust  $\rightarrow$  Strategy, Conflict, Rewards

4. Youtube, Netflix, Revolut, Steam, SNKRS, Alpha Progression, Tokrobot  
Whatsapp, Instagram, Paypal,

