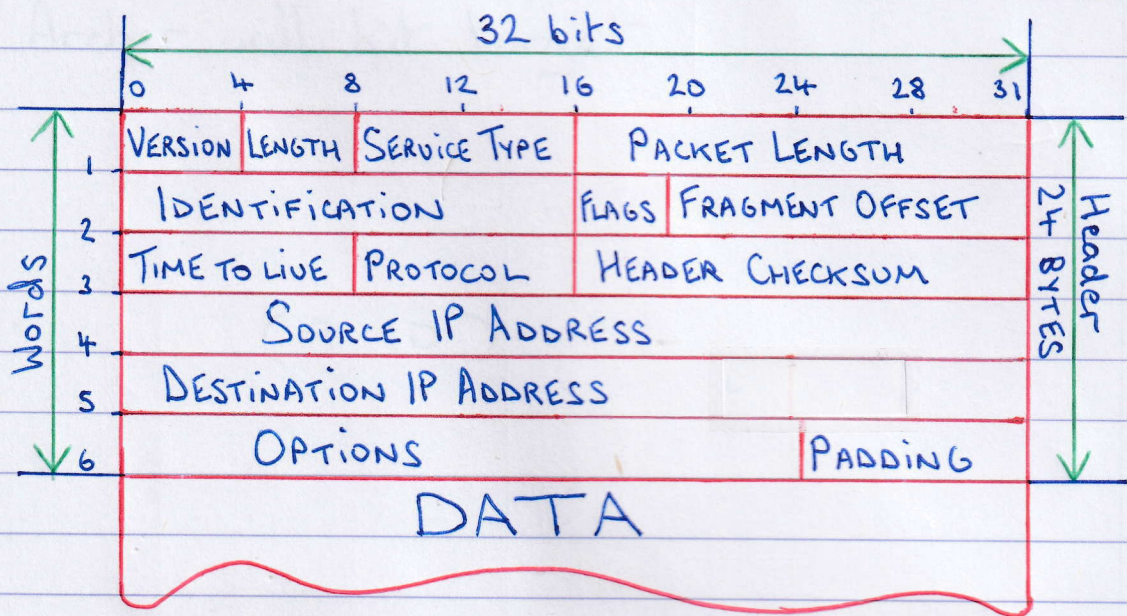
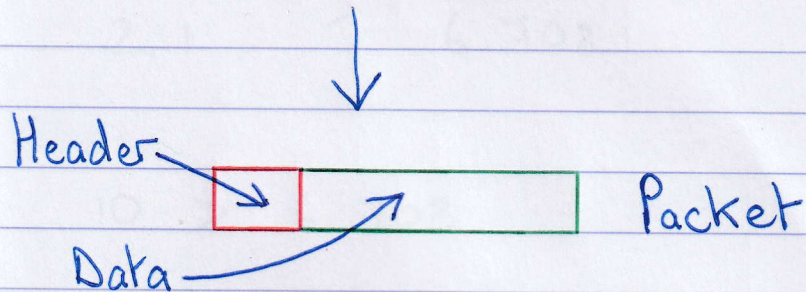


1. Install Wireshark. ✓
2. Capture packets using Wireshark. ✓
3. Draw an IP header.



4. Captured IP Packet:

No	TIME	SOURCE	DESTINATION	PRO	LN	INFO
2293	64.032983	192.168.1.8	239.255.255.250	SSDP	494	NOTIFY* HTTP/1.1

No - This is the number of the packet in the capture file.

Time - This is the packet's timestamp. It resets to 0 everytime a new capture is started.

Source - The packet is coming from this address.

Destination - The packet is going to this address.

Protocol - This is the protocol name.

Length - This is where the length of the packet is displayed.

Info - This displays additional packet content information.

5. The more fragment bit is set. This means that there will be additional packets coming in after the current packet. Network trace is also being used. This traces the data travelling from the source to the destination and can open packets and identify the protocol used and the IP address of the source and destination. It is used to monitor the data travelling from a source to a destination.

6. Elite Dangerous

This game contains the entire Milky Way galaxy as a freely explorable world. The galaxy is procedurally generated and contains around 400 billion star systems. This game features one of the largest maps in any game. This game has an extremely well built engine.

Minecraft

I like Minecraft because although it seems like a simple game, it stores all terrain data as a voxel dataset, and makes efficient usage of data chunks and sparse octree data structures. This efficiency allows for infinite worlds with relatively large draw distances. Also, it's fun to play 😊

No Mans Sky

This game is almost like a combination of the two previously mentioned games, Elite Dangerous and Minecraft. It uses procedural generation to create 255 galaxies. This provides a total of more than 18 quintillion worlds. It also uses voxels, like Minecraft, to provide fully destructable terrain. I love playing this game because it's so technically impressive and well designed, and as there's so many worlds to visit, every time you play there's always something new to see.