Tool exploration:

Wire shark:

Wire shark is an open Source packet Analyzer tool, which is used for education, analysis Software development.

Wireshark tool allows us to capture and examine individual packets of data. This can be incredibly useful for trouble shooting network issues. identifying the Source of problems or understanding how different protocols operate.

We can use Wireshark to direct and analyze various network protocols This can help in understanding how protocols work at a low level, and can be particularly useful when you're dealing with proprietary or non standard protocols.

When Something isn't working as expected on a network. Wireshark can be used to capture packets and analyze them to pinpoint where the issue lies. This could be due to misconfiguration faulty devices or other network problems.

Wireshark has filtering and Search capabilities we can Search that allows us to focus on what we need in the system.

By capturing and analysing normal network traffic, you can establish a baseline of what is considered typical behaviour