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PROBLEM STATEMENT

Wireshark.

ALGORITHM & CODE :

Wireshark is a powerful and widely used network protocol analyzer. It allows you to capture and interactively browse the traffic running on a computer network.

It's used for network troubleshooting, analysis, software and protocol development, and education. Here's a brief overview of its key features:

1. Packet capture
2. Protocol analysis
3. Filtering
4. Detailed information
5. Cross-platform
6. Visualization

Install for Linux:

1. Install Wireshark:

• You can install via your package manager.

For example, on Ubuntu/Debian:

`sudo apt-get update`

`sudo apt-get install wireshark`

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ALGORITHM & CODE :

2. Start Wireshark
 - Open your terminal and type Wireshark to launch the application.
3. Capture Network Traffic:
 - Select the network interface you want to capture traffic from and start the capture.

Tools to view Captured Traffic :

1. Wireshark: One of the most popular network traffic analysis tools. Wireshark captures and displays data packets in real-time, allowing users to analyze each packet's details (such as: Source, destination, Protocol etc.)
2. Tcpdump: A command-line tool used for capturing network traffic on Unix-based systems (Linux / macOS).
3. NetFlow / sFlow: These are network monitoring protocols used to collect traffic flow data. You can use tools like ntopng or SolarWinds NetFlow Analyzer to visualize and analyze flow data.

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1. Fiddler: A web debugging proxy tool that can capture HTTP/HTTPS traffic between your computer and the Internet. It's often used for web traffic analysis.

Analyzing Captured Traffic:

- Filtering:
- Decoding
- Reconstruction
- Packet Details

In data analysis and statistics, "filtering" refers to the process of selecting a subset of data based on defined criteria, allowing for focused analysis and the ~~creation~~ creation of more specific views of the data.

NS2 Simulator (Network Simulator 2) is a discrete event simulation tool used primarily for simulating network protocols and systems. It is widely used for research and educational purposes to model and analyze the performance of various types

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