

CA-03

INT-301: Open Source and Technologies Report of project

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Git hub Link: https://github.com/Nikhilsoren12/INT301.git

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# Introduction:

This report gives us the idea of developing a network miner tool with which we can analyze network traffic and detect OS, sessions, and open ports through packet sniffing, helping organizations to improve their network security.

# Objective of the project:

Implement a network miner tool to detect the operating system, sessions and open ports through packet sniffing and investigate the network traffic.

# Description of the project:

The project explains how to set up a network miner tool that uses packet sniffing to find the operating system, open ports, and active sessions. It describes important factors including picking a library for packet sniffing, creating filters, capturing packets, extracting data, displaying findings, and testing and improving the programme. The literature emphasises the value of using the tool ethically and legally, as well as having a solid grasp of networking protocols, operating systems, and programming ideas.

For the project the tool i.e used is NetworkMiner.

The network exploration and security auditing tool NetworkMiner, sometimes known as Network Mapper, is free and open-source software. Network administrators, security experts, and hackers all use it frequently for a variety of tasks, including network inventory, port scanning, and vulnerability identification.

NetworkMiner uses a number of methods, including port scanning, version detection, and OS detection, to produce an in-depth diagram of a network and its services. TCP/IP, UDP, ICMP, and SNMP are just a few of the many operating systems and protocols it supports.

Steps to download and install the NetworkMiner in the sysytem:

Visit the NetworkMiner website's home page: The first step is to go to https://NetworkMiner.org/, the official NetworkMiner website.

Get the installer here: Go to the "Download" section and choose the installation that corresponds to your operating system. Among other platforms, NetworkMiner is accessible for Windows, Linux, and macOS.

Install NetworkMiner: After downloading the installer, run it and cross check all the steps to the prompts on the screen to install NetworkMiner on your computer. Your operating system may have an impact on the installation procedure.