VPN SpyGlass

VPN Traffic Analyzer

Introduction

VPN SpyGlass is an **open-source tool** that employs **deep packet inspection** to detect and categorize VPN traffic within a network. By classifying VPNs based on **protocol, ports** and **IPs**, it enables network administrators to efficiently **monitor** and **control VPN usage**, identify unauthorized connections, and uncover potential security risks.

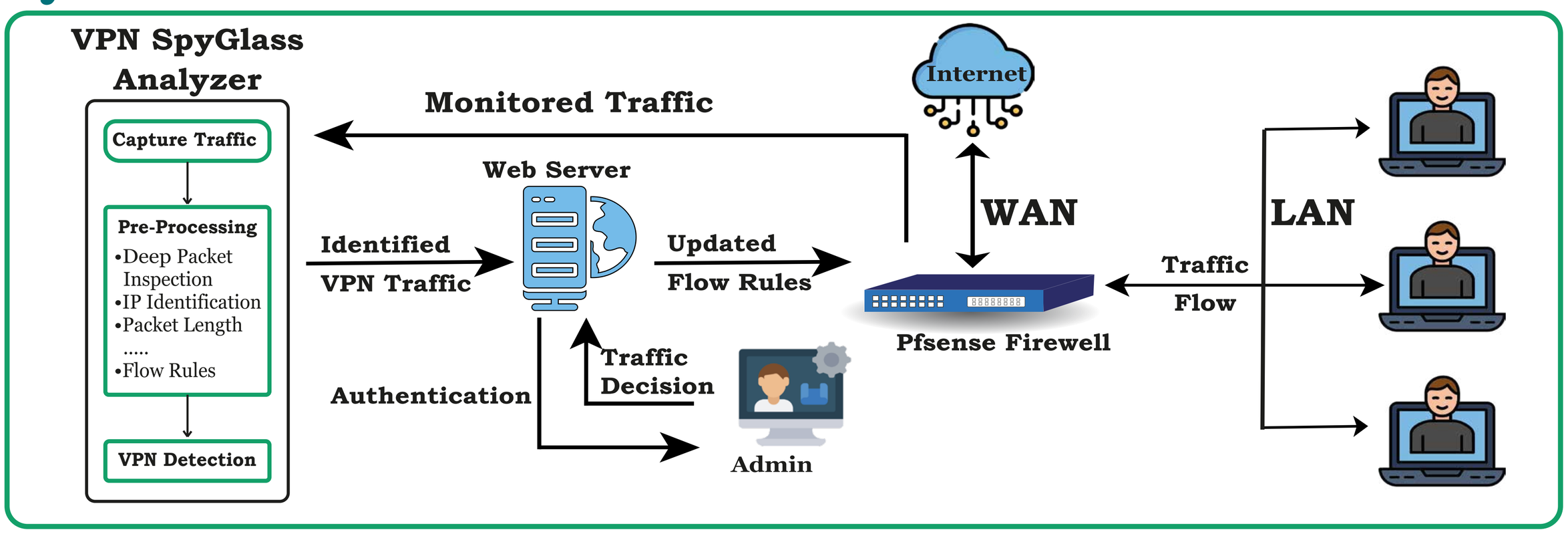
Objective

1. Investigate the deep packet inspection (***DPI***) method for analyzing encrypted traffic.
2. Design a **real-time** VPN traffic **detection mechanism** to enable user to respond to security threats.
3. Develop a **VPN analyzer** application with the goal of efficiently monitoring and managing VPN usage.

Features

- Live Analytic Dashboard
- VPN Traffic Categorization
- Network Control
- Notification Alerts
- User Authentication & Access Control

System Architecture



Dashboard

Visit: *https://vpnspyglass.vercel.app/*

VPN SpyGlass Offers

- **Realtime Detection** of VPN Traffic
- Detect **VPN Application**
- VPN **Ports** and **IP Addresses**
- **Realtime** VPN Traffic **Blocking**

Conclusion

VPN SpyGlass provides network administrators with advanced control for **monitoring, detecting and limiting VPN usage** within a network to mitigate the security risks. *Research Paper under Review*.

Technologies

Python, MongoDB Atlas, NodeJS, ReactJS, ReduxJS, PfSense, WireShark

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