

Graduation Project

Snort-Based IDS

Real-Time Network Threat Detection



By BobXploit

Think Like A hacker protect Like A Pro

Special Thanks

Anibus Security Group



Eng / Mahmoud Ramadan



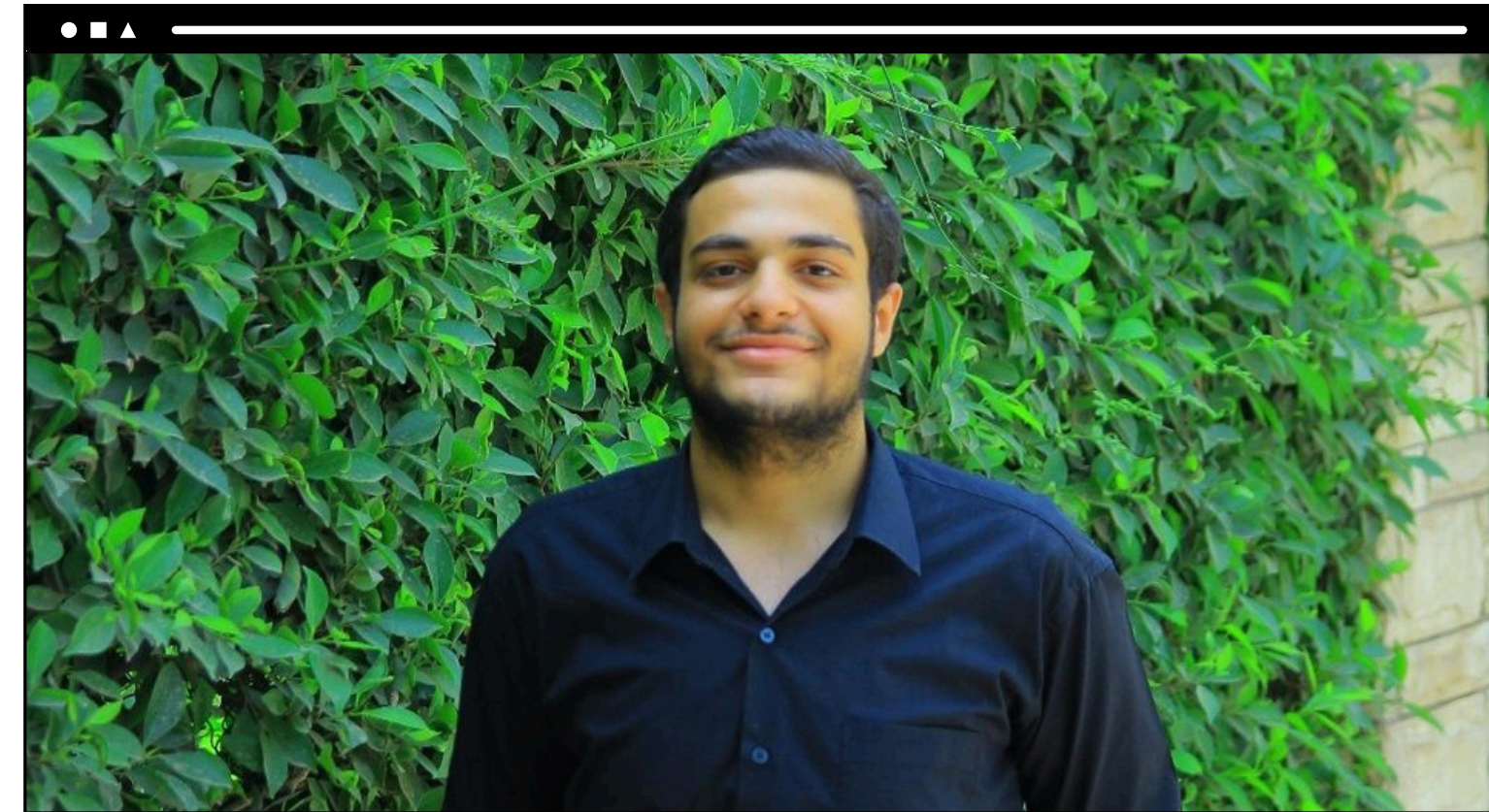
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- Cyber Security student @ GDG CIC (Google Developer Group)
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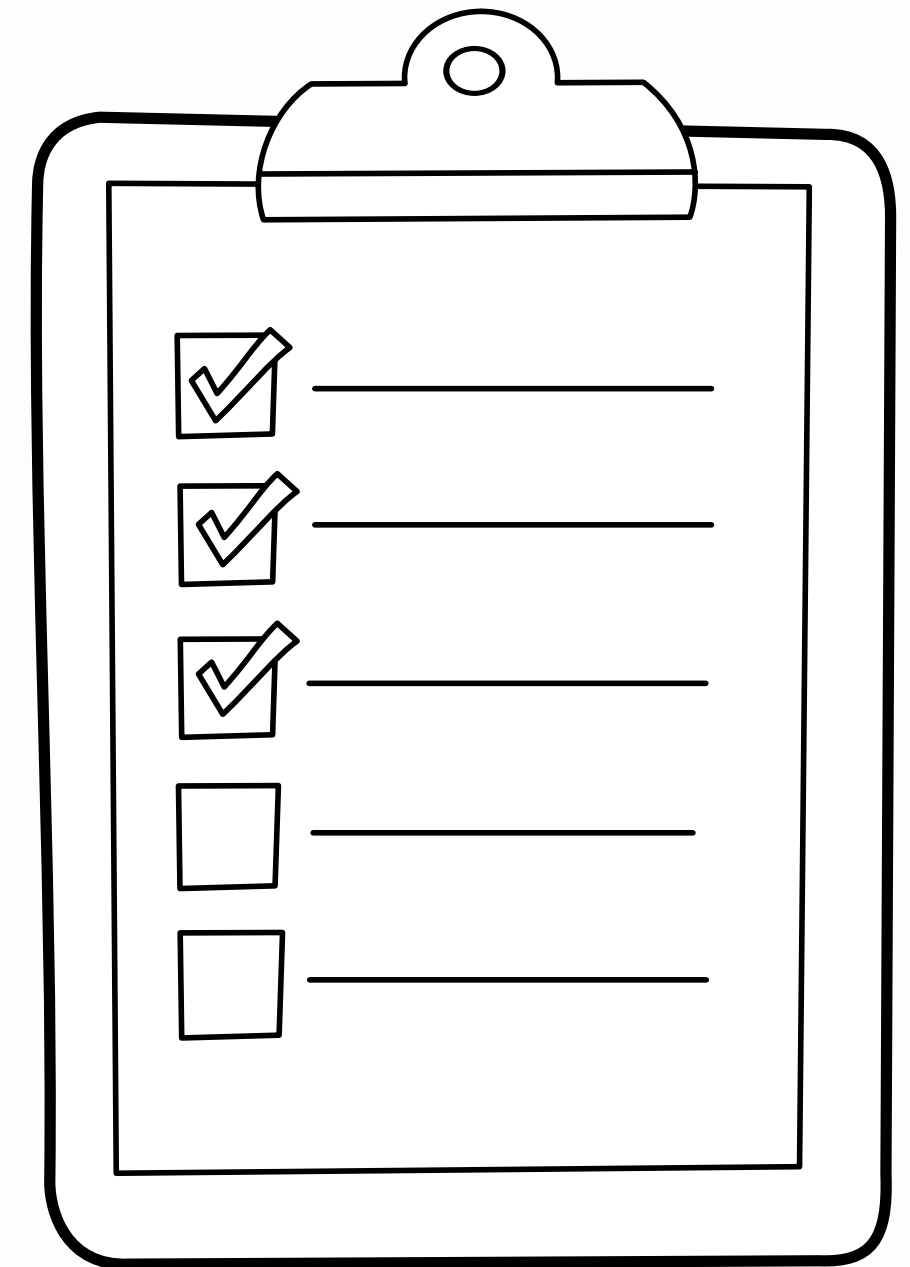


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1. Project Idea – "Why I Built"

Problem: Networks today are under constant attack – from

- **malware,**
- **port scanning,**
- **brute-force attempts.**

Objective: Build and demonstrate a working Intrusion Detection System using Snort that can detect malicious activities in **real time**.

Scope:

- Install and configure Snort
- Create and test detection rules
- Demonstrate how Snort can alert on suspicious traffic

Goal: Show that Snort can be used to enhance the security of small-to-medium networks using free, open-source tools



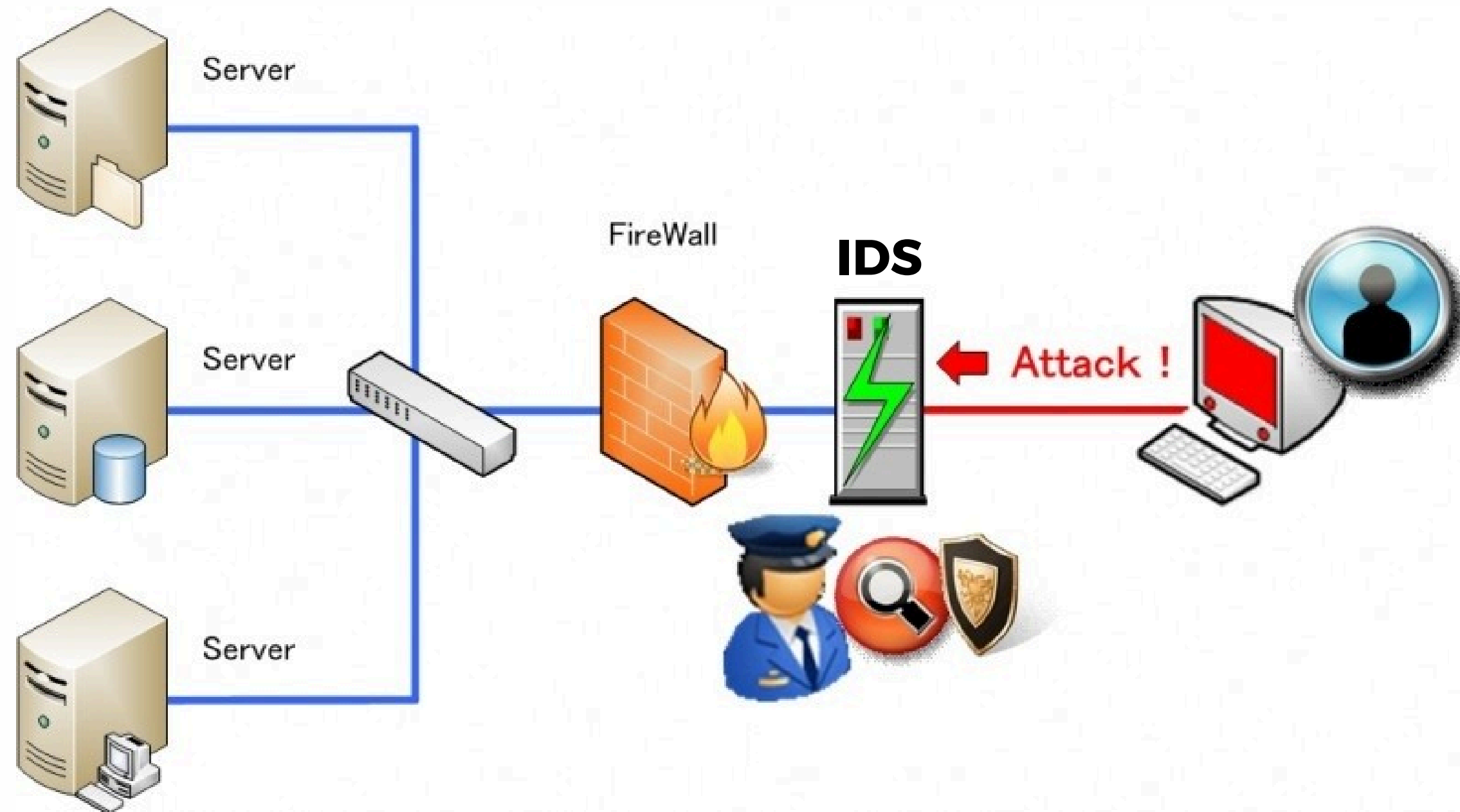
2.Introduction

- **What is Network Security?**
- **What is an IDS?**
- **IDS vs IPS**
- **Importance of real-time detection**

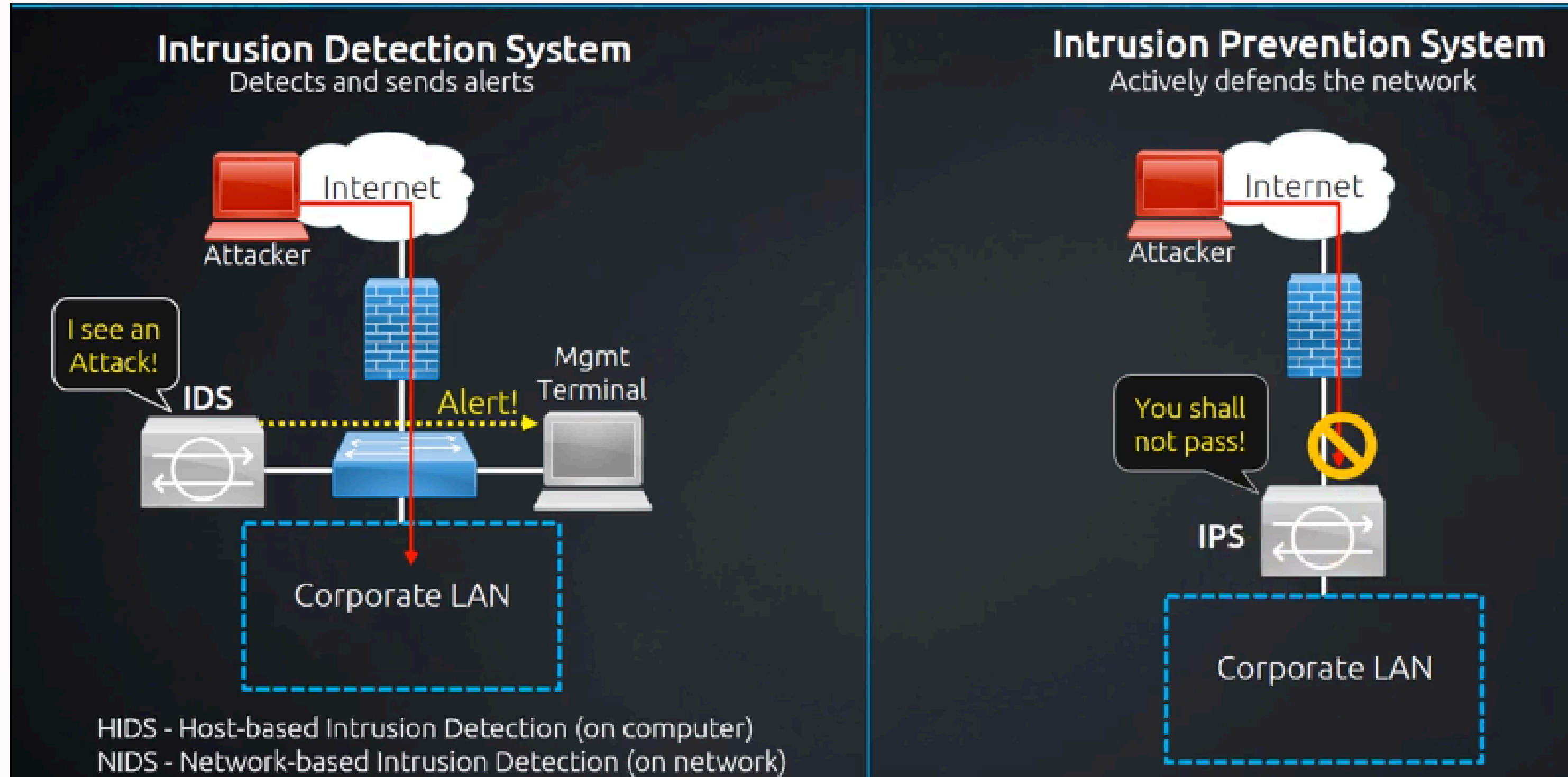


2.What is an IDS?

IDS Is Stands for (**Intrusion Detection System**)



IDS vs IPS



Importance of real-time detection

- **Minimizes Damage**
- **Reduces Response Time**
- **Protects Sensitive Data**

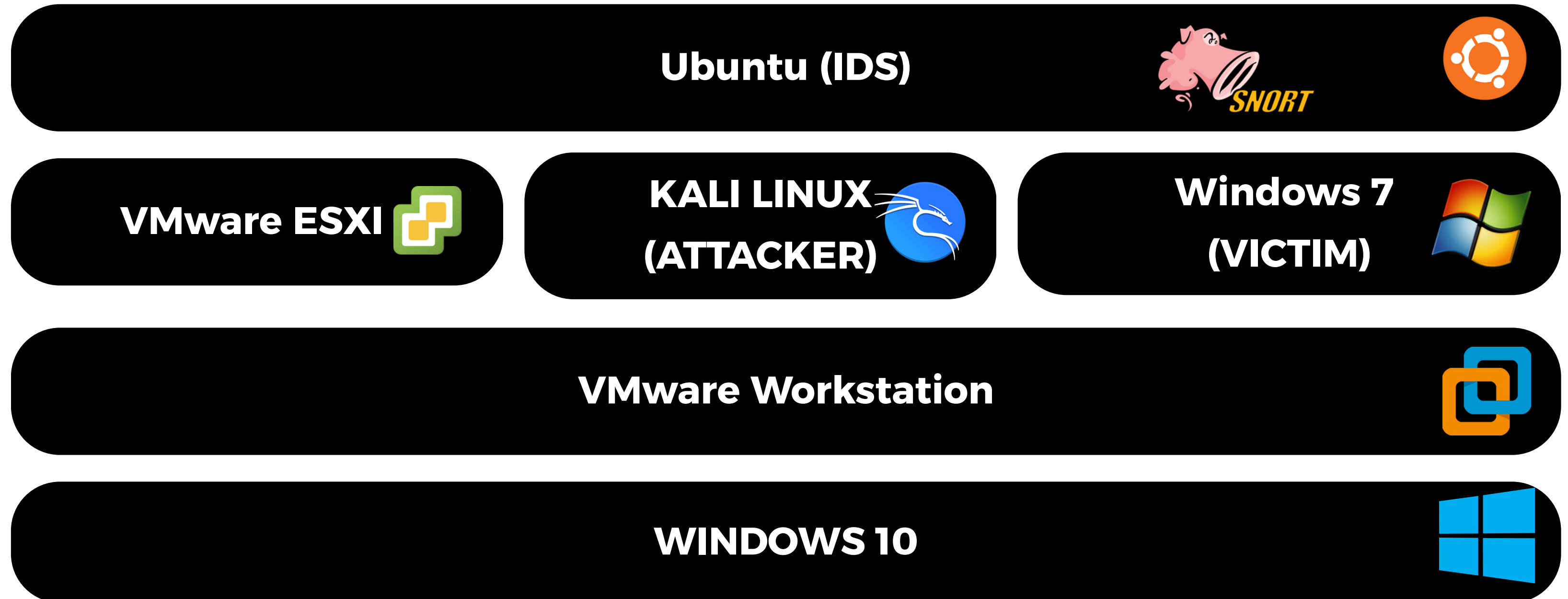


What is Snort?

snort is a popular **free** and **open-source IDS/IPS system** that is used to perform traffic/protocol analysis, content matching and can be used to detect and prevent various attacks based on predefined rules.



Project Architecture



Practical Demo



**KALI LINUX
(ATTACKER)**



Ubuntu (IDS)



**Windows 7
(VICTIM)**



Recourses:

- **Snort Playlist @hackersploit**
- **Blue machine @Try_Hack_Me**
- **Ubuntu ISO @ubuntu.com**
- **Snort Rules @snopy.org**





**THANK
YOU**