

Graduation Project

Snort-Based IDS

Real-Time Network Threat Detection

By BobXploit

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Special Thanks

Anibus Security Group



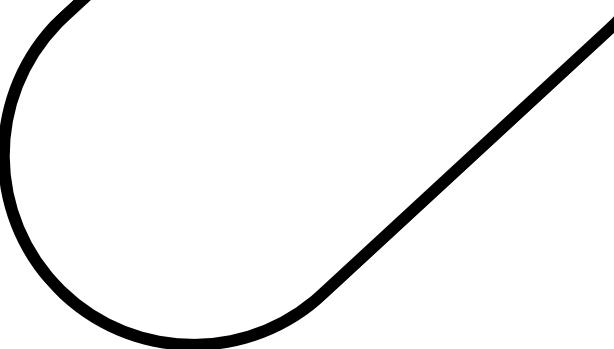
Eng / Mahmoud Ramadan



Eng / Ahmed Abaza

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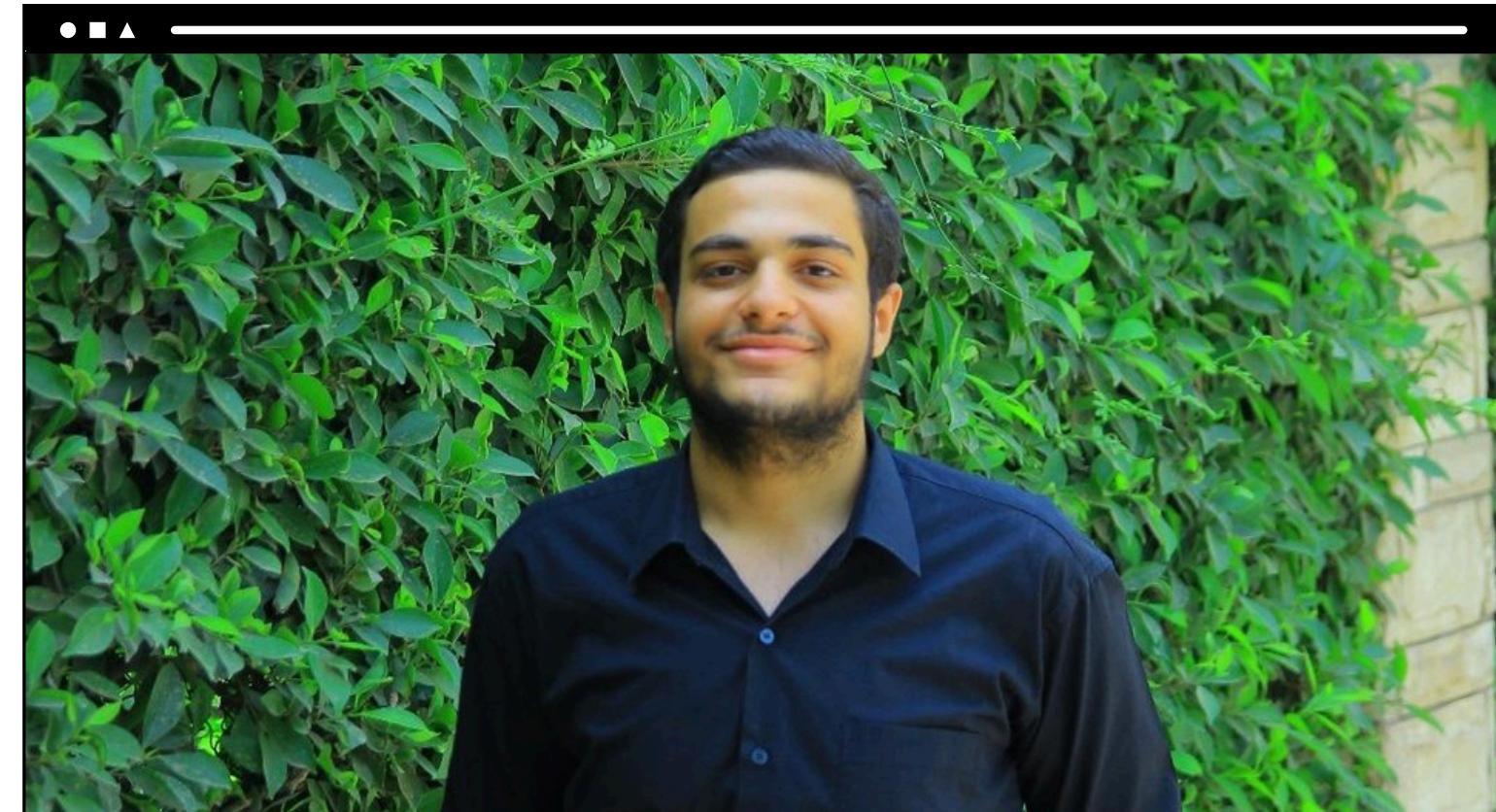


```
(root㉿kali)-[~/home/BobXploit]
```

```
# whoami
```

Abanoub Ehab (BobXploit)

- Cyber Security student @ GDG CIC (Google Developer Group)
- Cyber Security Member @ MSP (Microsoft Student Partners)
- CTF Player & Top 5% @ try hack me (Microsoft Student Partners)

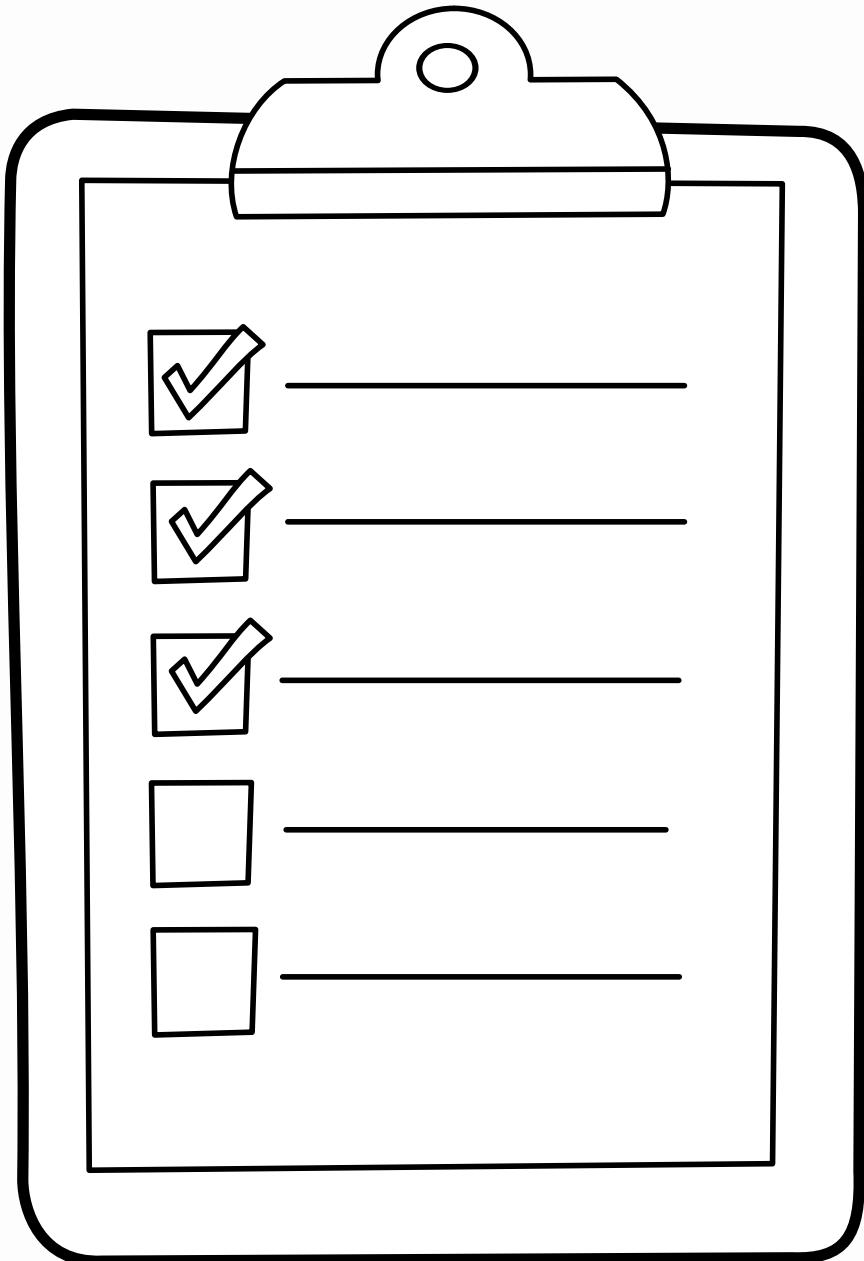


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1. Project Idea - "Why I Built"

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



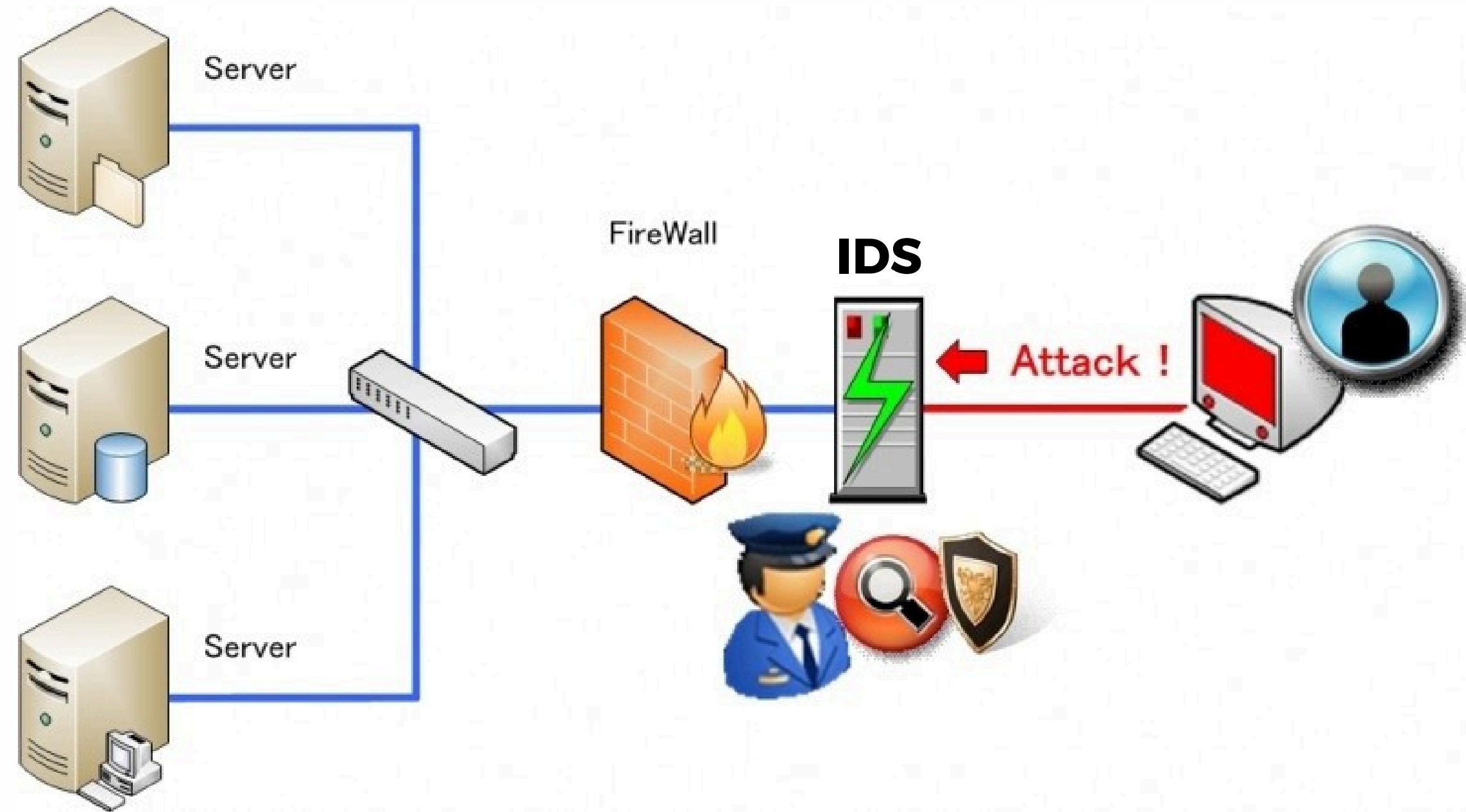
2. Introduction

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

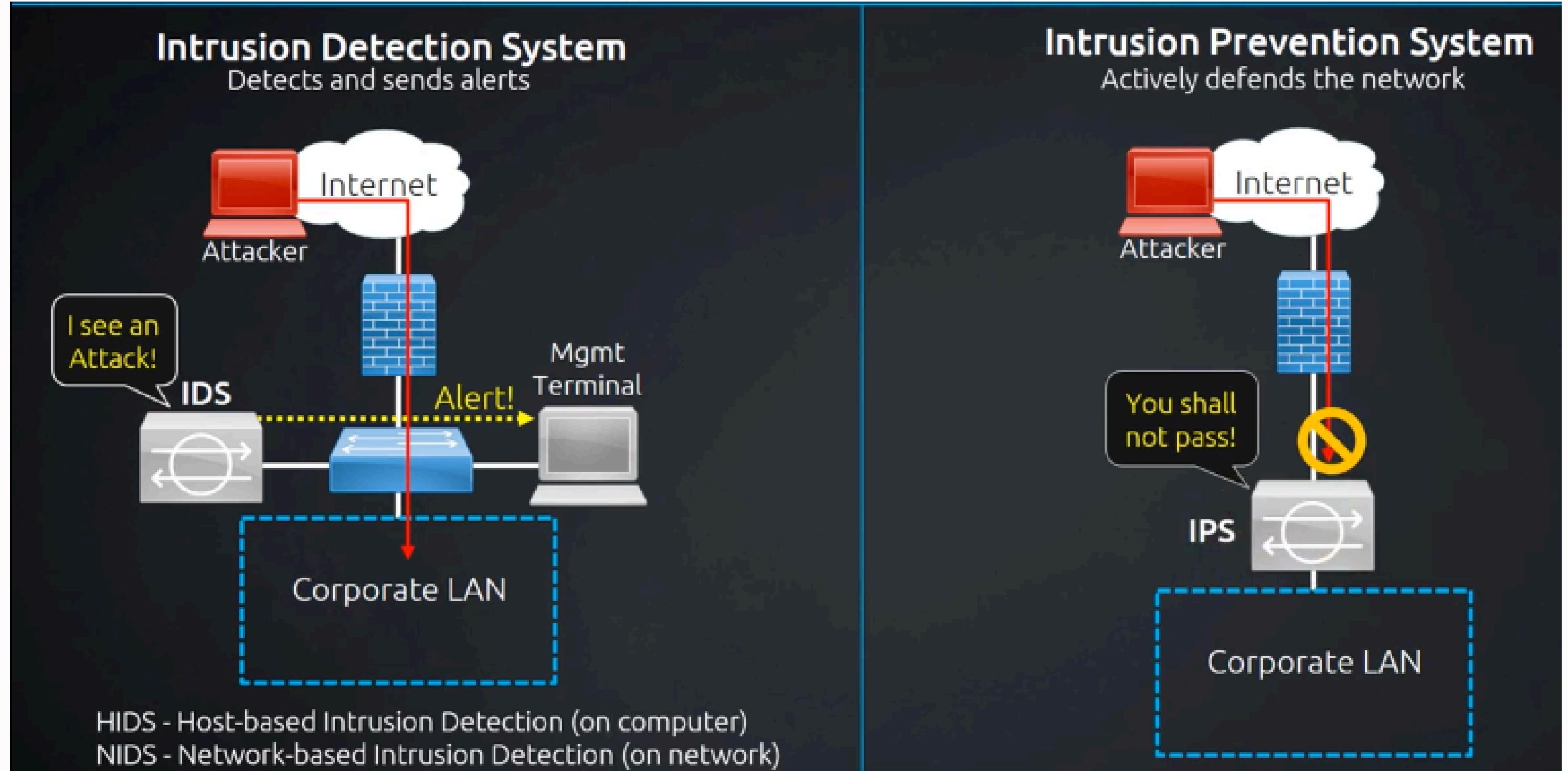


2.What is an IDS?

IDS Is Stands for (Intrusion Detection System)



IDS vs IPS



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Importance of real-time detection

- Minimizes Damage
- Reduces Response Time
- Protects Sensitive Data



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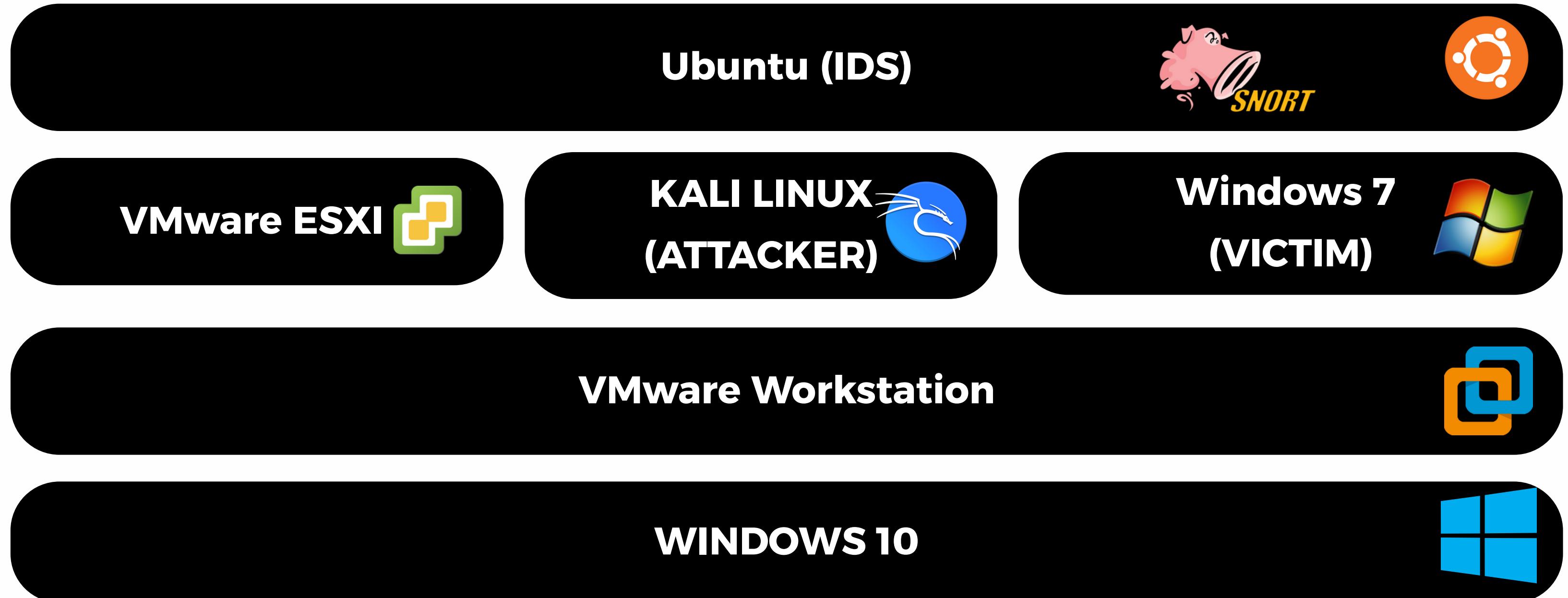
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What is Snort?

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



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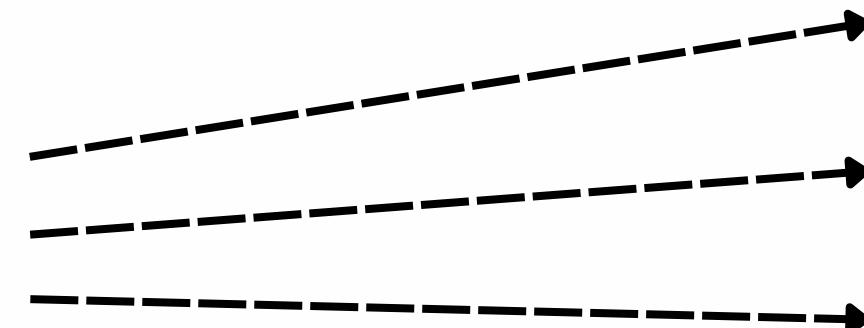
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Practical

Demo



KALI LINUX
(ATTACKER)



Ubuntu (IDS)



Windows 7
(VICTIM)



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Recourses:

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



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**THANK
YOU**

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