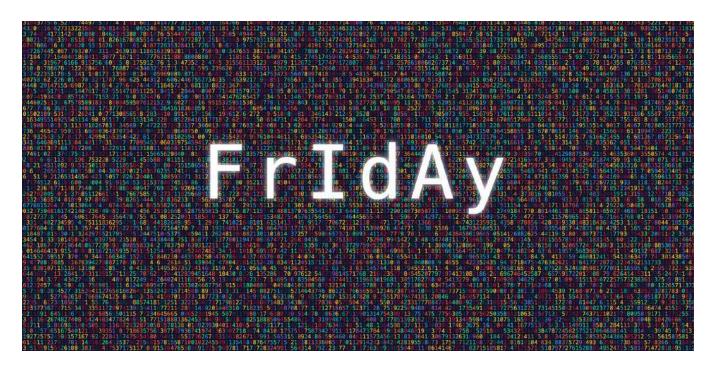
## **Final Project Report**

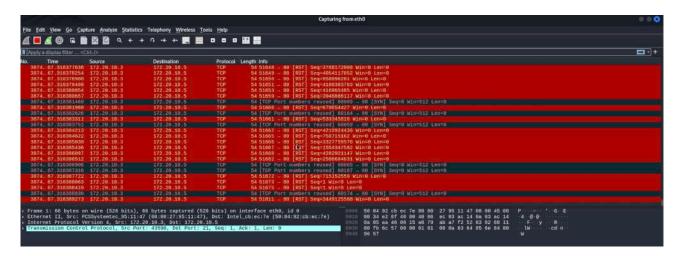
Team Name - Team Z Track - Cyber Security Project Name - Friday





Our aim was to create a suite of tools to prevent cyber attacks in real time. We have successfully implemented the following.

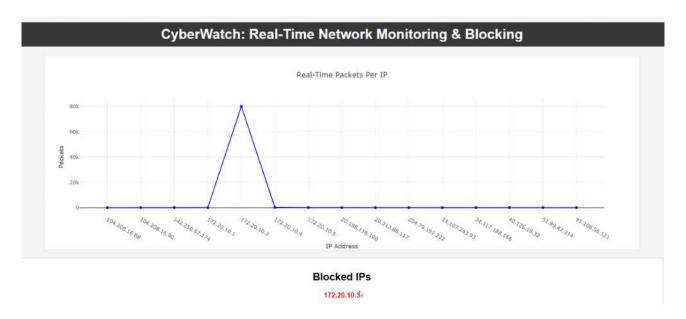
1. We have successfully created our own datasets by performing cyber attacks in real time and converting these logs into CSV format using TShark tool.



2. We have successfully implemented a Transformer based model using hash mapping to prevent Phishing. Our tool detects malicious links and blocks them, if the links are not malicious the tool allows access to the website.



3. We have successfully implemented an LSTM based model to detect Denial of Service attacks. Our model works by detecting a DoS attack and raising a caution for the IP address, subsequently blocking the IP address.



4. We have successfully implemented a malware detection system that utilises Steganography detection techniques to identify if a particular file or software has virus embedded in it or not. If Malware is present it alerts the user and analyse the type of malware

```
CyberWatch: Malicious File Detected

File Name: music.apk

Flagged by the following vendors:

Lionic (Lionic): Trojan.AndroidOS.Metasploit.Clc

CTX (CTX): apk.trojan.metasploit

CAT-QuickHeal (CAT-QuickHeal): Android.Agent.ACZ

Skyhigh (Skyhigh): Artemis!Trojan

McAfee (McAfee): Artemis!DB24A6693271

K7GW (K7GW): Trojan ( 005983afl )

Trustlook (Trustlook): Android.Malware.Trojan

VirIT (VirIT): Android.Trj.RemoteCode.KC

SymantecMobileInsight (SymantecMobileInsight): Hacktool:Mesploit

Symantec (Symantec): Trojan.Gen.MBT

ESET-NOD32 (ESET-NOD32): a variant of
Android/TrojanDownloader.Agent.JN

Avast (Avast): Android:Metasploit-G [PUP]

Cynet (Cynet): Malicious (score: 99)

Kaspersky (Kaspersky): HEUR:Trojan-Downloader.AndroidOS.Agent.jy

Rising (Rising): Downloader.Agent/Android18.3A1 (KTSE)

F-Secure (F-Secure): Malware.ANDROID/Agent.FJNR.Gen

DrWeb (DrWeb): Android.RemoteCode.6833
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