

FYP Logbook Entry Sheet

Meeting No: 11

Date: 2025-03-02

Start Time: 10:00 am

End Time: 12:00 pm

Items Discussed:

1. Showed demonstration of all the working features and took feedback.
2. Discussed and took feedback from external supervisor for finding the online devices in the network on how to make the network scanning efficient and optimized.
3. Took feedback on what details to display on the pcap analysis report and how to make the report downloadable as a pdf file.
4. Discussed on the rule generation module and how the data is being stored in the database, management of the rules like editing and deletion, also gained insights on how to filter according to the network protocol and how to download it in a separate file and zip them.

Achievements:

Updated the front end in the device viewer and pcap analysis page. Implemented scanning Ip addresses in batches for online devices, instead of scanning the entire network and implemented Django-celery for asynchronous network scanning and storing results in Redis cache. Fixed sorting and downloading of rules and pcap analysis.

Problems:

Django-Celery Issue: I faced issues connecting to Redis cache on my localhost. Despite trying different configurations, I was unable to establish a proper connection for caching the network scan results.

PCAP Report Template Issue: I was unable to download the pcap report as a PDF using the JavaScript library I was implementing. To resolve this, I created a Django view to handle the rendering of the HTML file into a PDF and then send it as an HTTP response, allowing for the report to be downloaded successfully.

Tasks for Next Meeting:

Optimizing the overall project and starting the development of the real time network data analysis.

Implementing Django celery for pushing updates to the frontend.

Student Sign

Internal Supervisor Sign

External Supervisor Sign