Project proposal:Application identification using network traffic

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1 Project Participants

This is an individual project, Woyu li will cover the code and project report writing. CNET id: woyuli

2 Project summary

Network traffic include many useful information that help application identification and hence improve security. In this class project, I choose to explore and reproduce the application identification result provided by the nPrint pcapML benchmark. My goal is to reproduce the result in nprint paper and achieve over 96 percent balanced accuracy. My learning objective is to gain hands on experience on using established tools to process complex data, and build ML pipeline on real world data.

3 Data

The dataset for this project is available under netML application identification website. The dataset contains about 10000 packets from three Countries.

4 Deliverables

In this project, I will provide a jupyter notebook to show my code and reproduce my result. In addition, I will provide a sphinx-build html as my report.