USRA Summer Weekly Meeting
Data Generation

S. Feng

NIMS Lab
USRA Summer 2023

June 13, 2023

Wrap-up: June 15 to June 20

Attempts:

- Retry migrating working environment
- Improve capturing method for Google Drive and TikTok
- Recapture packets for TikTok
- Investigate Kakao Talk, Line and Slack

Results:

- Migration: tentative solution due to incompatible hardware
- Capturing: gathered 10 PCAP files in total
- Investigation: see attached report

Capturing

TikTok:

- Switch from random to fixed time intervals
- Abandon bash shell script
- Abandon auto login due to anti-bot policy

Google Drive:

- Write a Scala script to generate dummy files of any size
- Split into three stages for different file sizes (crash)

DALHOUSIE
UNIVERSITY

Table: Captured Data

		10:00	13:00	15:00	18:00	20:00
TikTok	Packets (K)	506	529	711	511	587
	Size (MB)	485	514	725	500	596
Drive	Packets (K)		3851	3404	2954	3562
	Size (MB)		2930	2592	2253	2717

Schedule:

- Do not bother migrating to the Linux environment
- Continue capturing traffic for other apps
- Design automation method for the selected app

Three things to mention:

- I spent a lot of time dealing with unrelated issues
- Request not to capture traffic in public places due to noise
- I need a hard drive too