USRA Summer Weekly Meeting
Data Generation

S. Feng

NIMS Lab
USRA Summer 2023

June 13, 2023

DALHOUSIE
UNIVERSITY

Wrap-up: June 15 to June 20

Attempts:

- Retry working environment migration
- 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)

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

What to do next: June 8 to June 13

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