Collecting, categorizing and analyzing Emails from top Free Disposable Email Address Services

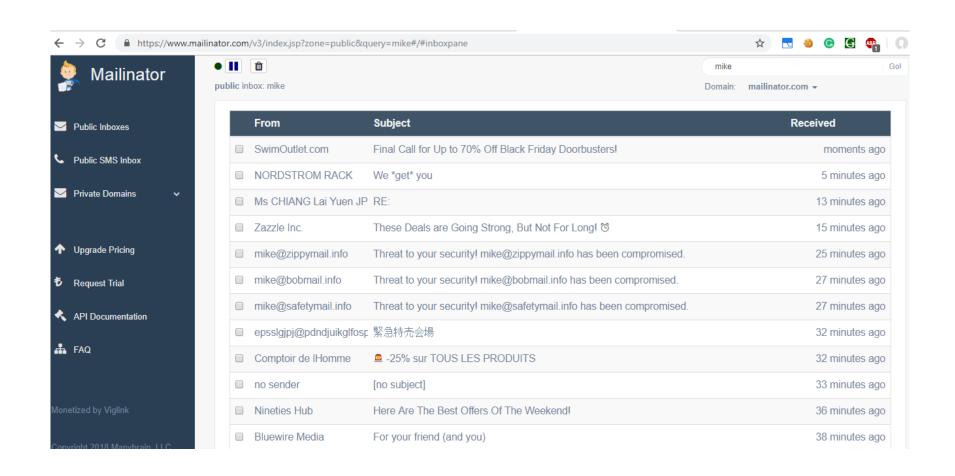
CSE508: Network Security

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DEA Services

- Unique public email address
- Disposable if compromised (spam, phishing)
- Free or paid
- Uses: Online registration/middle layer mailbox



mike@mailinator.com

Problem

Analyze the kinds of mails present in DEA mailboxes.

- Requirements:
 - Collection of mails
 - Categorization of mails
 - Draw insights

Challenges

- C1: pages took time to load
- **C2**: mailinator has request limit and is protected by cloudFlare, number one service for protection against DOS and DDOS attacks.
- **C3**: mailinator blocks TOR proxy
- C4: Access lost after crossing limits.
- **C5**: Mailinator empties the email data at a certain point of time every day.
- **C6:** every run of the mailinator started fetching the emails from the start.





- Usage limit
- Abuse limit
- Blocks IP after abuse limit is crossed

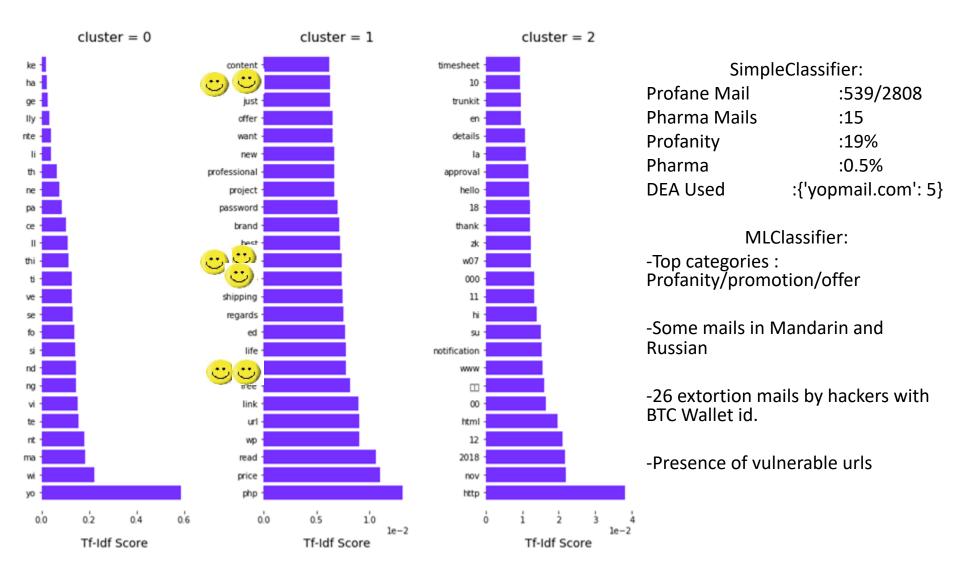
Results

- Collection: Selenium + python + cron + timing adjustments
- Classification: python + ML(scikit learn)
- 100 common names
- Top Google bad words:1703
- Collection results:

Total Mailboxes checked : 101

Total Mails : 2808

Classification Result and Insights



Future Work

- Crawling links in mail.
- Analyzing source email addresses, time stamp.
- Image and OCR for mails
- Translating emails from Language Unicode to English (Google translater api - 1000000 words/\$20).
- Include scripts for yopmail, tempr.email.

Project link:

https://github.com/sjindal94/DEAemailscraper