



# COMP90024

## Cluster and Cloud Computing

Group 14

Aobo Li	1172339
Pavith Samarakoon	1297058
Zhihao Liang	1367102
Jiqiang Chen	1171420
Yijun Liu	1132416



# Set up

1. Manually setup a master instance
2. Use Ansible to setup other instances
3. Use Ansible and docker to setup couchdb and build couchdb clusters
4. Manually setup Reverse Proxies using HAproxy in master instance.
5. Github actions to automatically to deploy the front end react and backend flask



# **Analysis of social media in Australia**

- Three scenarios

# Scenario 1 : Russia-Ukraine war

Opinions from different social media user

- Income
- Gender
- Political views
- Locations
- Platforms



Flag of Russia. In Wikipedia. [https://en.wikipedia.org/wiki/Flag\\_of\\_Russia](https://en.wikipedia.org/wiki/Flag_of_Russia)



Flag of Ukraine. In Wikipedia. [https://en.wikipedia.org/wiki/Flag\\_of\\_Ukraine](https://en.wikipedia.org/wiki/Flag_of_Ukraine)

## Scenario 2 : LGBTQ

### Opinions from different users

- Income
- Gender
- Political views
- Location
- Platform



CBC Kids team. (n.d.). Do you know your LGBTQ flags?  
<https://www.cbc.ca/kids/articles/do-you-know-your-lgbtq-flags>

## Scenario 3: General Analysis of Australian tweets with location and mastodon toots

Does people in different state post tweets at the same time?

Do people follow similar patterns of behavior on different platforms such as Twitter and Mastodon?

Does people with different language background post during day or night? Do we see the same pattern on Twitter and Mastodon?





# Frontend Demo

<http://45.113.234.176/>



# Reference

Williams, S. (2022, November 25). Australia must accelerate to capture Digital Readiness Advantage. IT Brief Australia. <https://itbrief.com.au/story/australia-must-accelerate-to-capture-digital-readiness-advantage>

Flag of Russia. In Wikipedia. [https://en.wikipedia.org/wiki/Flag\\_of\\_Russia](https://en.wikipedia.org/wiki/Flag_of_Russia)

CBC Kids team. (n.d.). Do you know your LGBTQ flags? <https://www.cbc.ca/kids/articles/do-you-know-your-lgbtq-flags>

Flag of Ukraine. In Wikipedia. [https://en.wikipedia.org/wiki/Flag\\_of\\_Ukraine](https://en.wikipedia.org/wiki/Flag_of_Ukraine)