CI

Kikeriki - Social Network with Cassandra and React run in Docker

Open in Gitpod

Documentation

Find the detailed lessons learned here.

Find the sample queries this project is built around here.

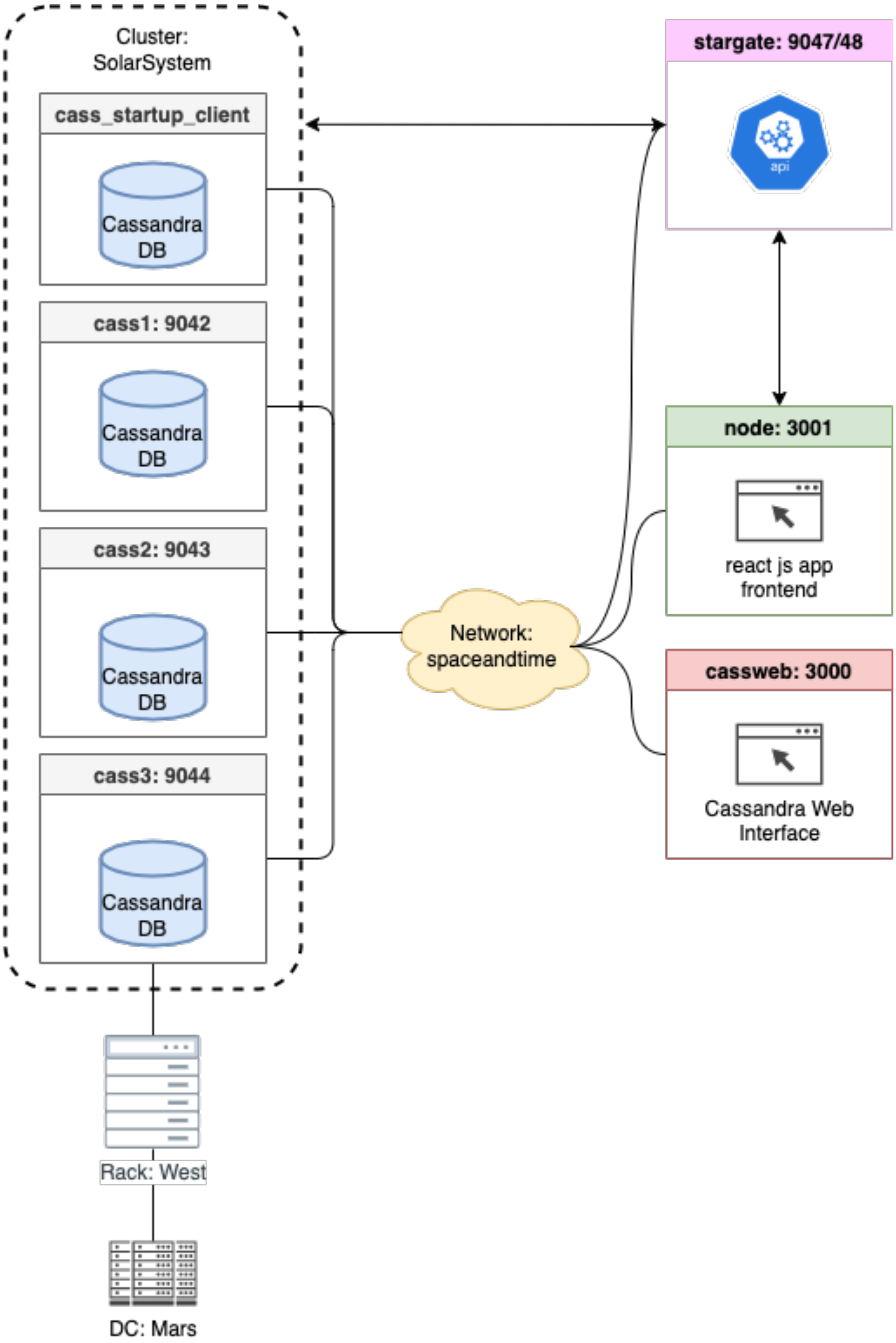
Find the explanation for the Table structure here.

All of these Files are also available as PDF in the PDFs Folder

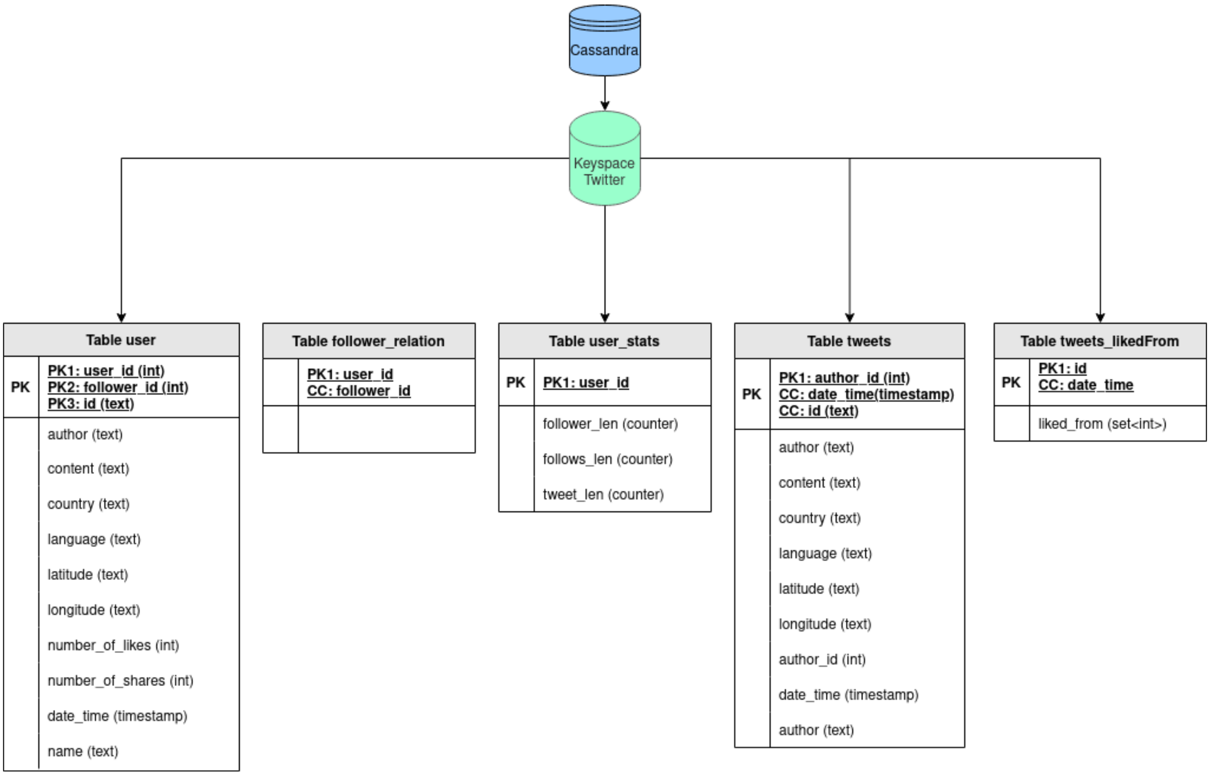
The preprocessing python script is here

Architecture

Infrastructure


Cluster:
SolarSystem
cass_startup_client
Cassandra DB
cass1: 9042
Cassandra DB
cass2: 9043
Cassandra DB
cass3: 9044
Cassandra DB
Rack: West
DC: Mars
Network: spaceandtime
stargate: 9047/48
api
node: 3001
react js app frontend
cassweb: 3000
Cassandra Web Interface

Database



Getting Started

Currently we only implemented the full setup for cassandra. So only `make cass` fully works. It takes about 30min to fully load the data after entering the command, so go and get some coffee.

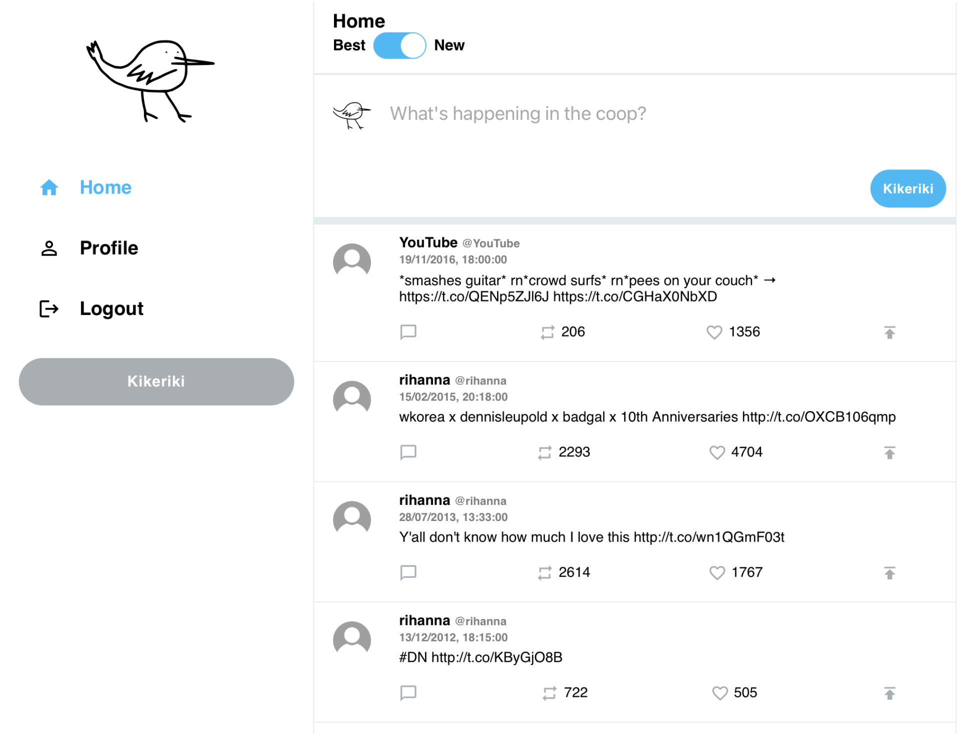
Gitpod Setup

Gitpod starts with executing `make cass` and then opens two browser windows for Cassandra Web and the Frontend Website. Due to development reasons this is currently disabled and needs to be started manually.

The react and cassandra frontend should open automaticly, if not the react frontend runs on Port 3001 and the cassandra frontend on Port 3000.

React Frontend

The frontend is build with Create React App.

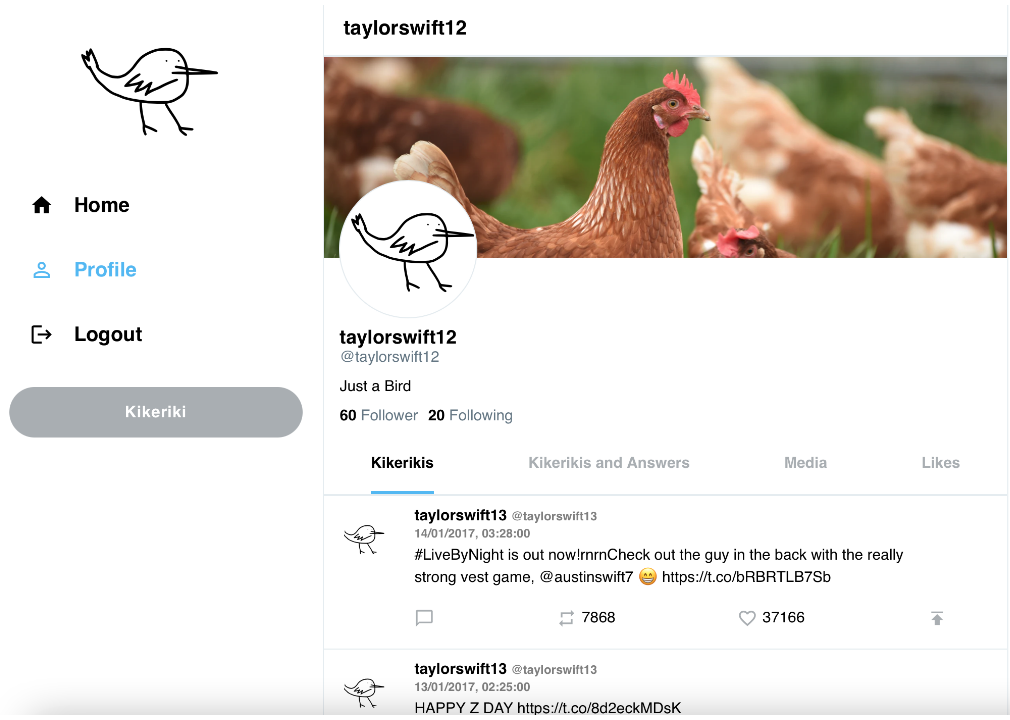


YouTube @YouTube
19/11/2016, 18:00:00
smashes guitar rn*crowd surfs* rn*pees on your couch* → https://t.co/QENp5ZJl6J https://t.co/CGHaX0NbXD
206 1356

rihanna @rihanna
15/02/2015, 20:18:00
wkorea x dennisleupold x badgal x 10th Anniversaries http://t.co/OXCB106qmp
2293 4704

rihanna @rihanna
28/07/2013, 13:33:00
Y'all don't know how much I love this http://t.co/wn1QGmF03t
2614 1767

rihanna @rihanna
13/12/2012, 18:15:00
#DN http://t.co/KByGjO8B
722 505



taylorswift12
@taylorswift12
Just a Bird
60 Follower 20 Following

taylorswift13 @taylorswift13
14/01/2017, 03:28:00
#LiveByNight is out now!rnrnCheck out the guy in the back with the really strong vest game, @austinswift7 😁 https://t.co/bRBRTLB7Sb
7868 37166

taylorswift13 @taylorswift13
13/01/2017, 02:25:00
HAPPY Z DAY https://t.co/8d2eckMDsK

It runs on Port 3001

It supports the following features:

- Login with userID and username
- View your feed sorted by likes or date (see kikerikis of people you follow)
- View your profile to see your kikerikis sorted by date and to see your follower and follows count
- Send new kikerikis

Cassandra Cluster Details

Cassandra Cluster with three nodes can be accessed via web the interface at http://localhost:3000/

Useful commands:

- `docker exec cass1 nodetool status` (status check) --> UN = Up and Normal
- `docker exec -it cass1 cqlsh` (open cqlsh)

Makefile

The Makefile allows to run different setups:

For the neo4j-ent command to work, you need to change `NEO4J_ACCEPT_LICENSE_AGREEMENT` to `yes` (which means you own a Enterprise license)

```
# Run Neo4j enterprise edition with 4 nodes
make neo4j-ent

# Shuts down the Neo4j enterprise cluster
neo4j-ent-shutdown

# Run Neo4j community edition (single instance)
make neo4j-com

# Run Cassandra Cluster with three nodes
make cass

# Run Query 2 and 3 on Cassandra Cluster using python
make cass-ex2_3

# Run scylla Cluster
make scylla

# Run redis Cluster
make redis
```