SOUTENANCE INDE2

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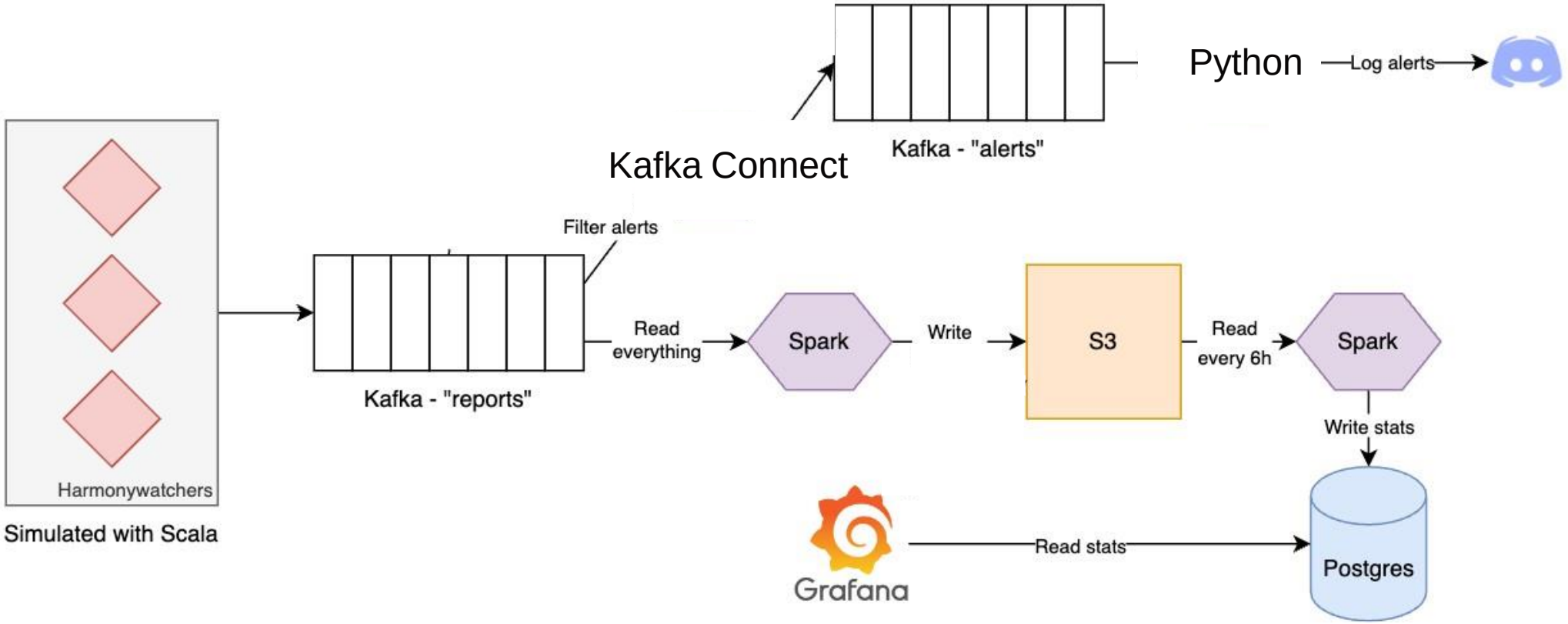
SUMMARY

1. Architecture
2. Components details
   a. Messages
   b. Alerts
   c. Storage
   d. Statistics
3. Demo

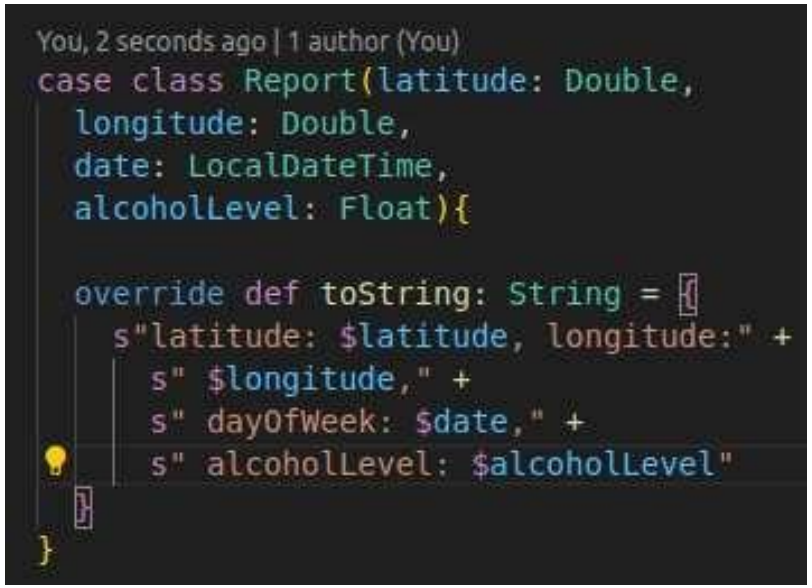


ARCHITECTURE

MESSAGES

Generate reports :

-Random alcohol level between 0 and 3 g/L
- Random location in Paris
- One data every 1000ms

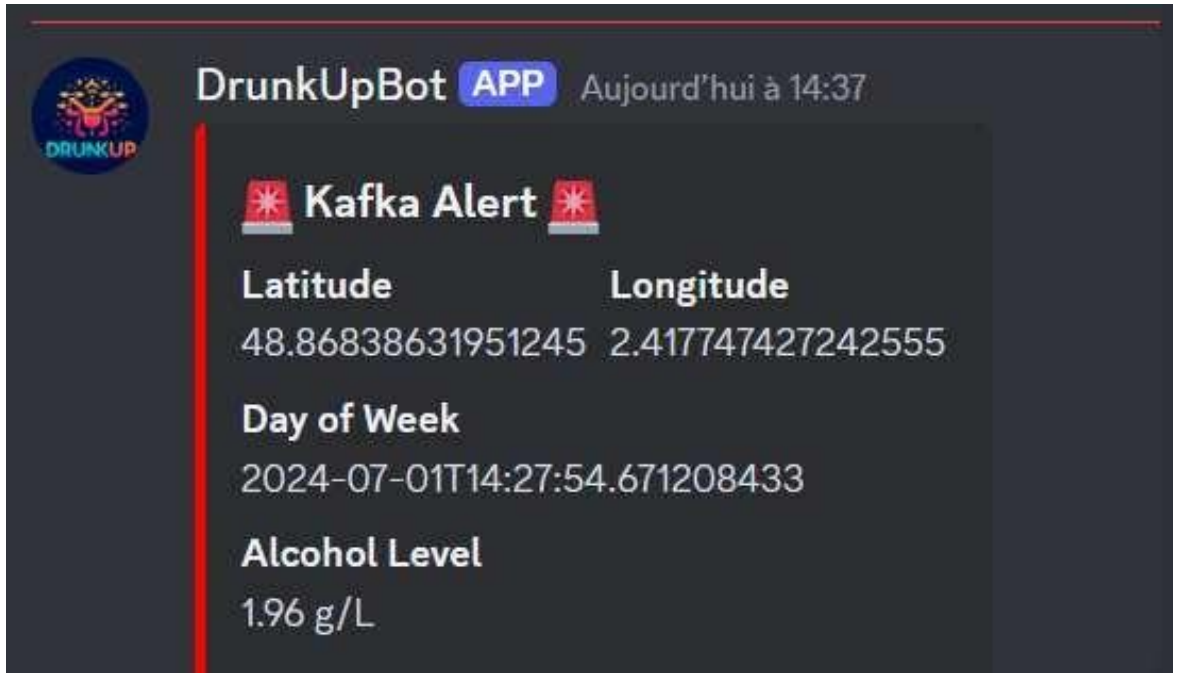


ALERTS

Score < 1.5 == ALERT

Kafka Connect Job : read from the reports to topics and put it in alerts topics instantly

Discord Job: Read from alert topics and log to discord



STORAGE

- Datalake: AWS S3
- Read in Kafka “report” topic every **6 hours** -> 4 files / day
- Write using json format
- Partioned by day:

- For testing/demo purposes, read Kafka every minute

STATISTICS

Spark Job:

- Run every day
- Write stats in Postgres database
- Grafana plugged on the database

DEMO