CYGNO Technical Meeting 2024, 5 June



Source-Source SQL replication

Source-Replica SQL

CYGNO database works today as Source-Replica:

- 1. Source is the DB running locally on the DAQ;
- 2. Replica is the DB running on Cloud;
- 3. For our use-case this is not the best choice.
 - a. We saw that every now and then the Source-Replica loses its synchronization;
 - b. The problem is that we write some data on Source side and some other on Replica side;

Source-Source SQL, possible solution?

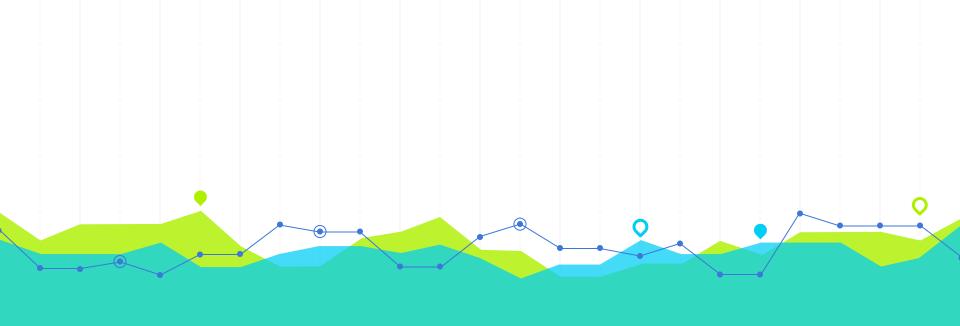
Move our environment to Source-Source configuration could be a solution.

- This means that the Local DB will write on the Cloud DB, and Cloud DB will write on Local DB.
- with this we expect to always have the two DBs updated and solve the synchronization problem.

Source-Source SQL, possible solution?

If the group accept this as a solution we can proceed as follow:

- 1. Configure the Source-Source SQL on LNF environment;
- 2. Test the new system for over 15-30 days;
- 3. If it passes the test, plan a shutdown of the data taking and configure the Source-Source SQL also at LIME
- 4. And after that for Mango;



Bonus problem

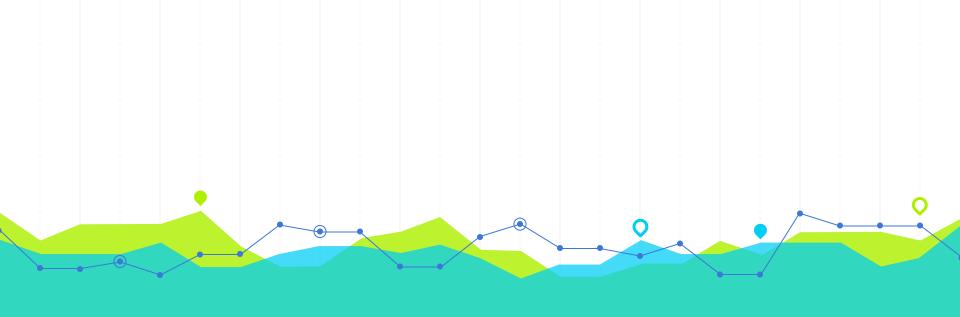
Date/hour on the DB

By now, we are saving "start_time" and "end_time" **not as a Unix Timestamp** but as the "clock hour" at the moment.

The implications are that half of the year our **start_time/end_time** is on **UTC+1** and the other half on **UTC+2**.

Two possible solutions are:

- 1. Change the way that start_time and end_time are been collected;
- 2. Add a new column with unix timestamp.



THANK YOU!