

Pipeline- Plotting on Grafana

Data Preparation

1. Read the data into a pyspark DataFrame
2. Filter df with rssi_percs_25 between (-85,-65).
3. Convert the dtype of rssi_percs_25 to long for dB steps to be 1.
4. Groupby dataframe and get the mean of the columns txWeightedPhyRate and rxWeightedPhyRate.
5. Check length of df. Should be 21.
6. Add timestamp column for Grafana Visualization.
7. Export to CSV.

Data Ingestion

1. Create Elasticsearch client with credentials and data node details.
2. Create new yearly index with the dataframe.
3. Add datasource to Grafana with @timestamp as datetime col.
4. Create new dashboard with the new data source and generate the graph.
5. On updating the index from the script, the dashboard will update.