

ABSTRACT

Data should be at the heart of decision making in any businesses, whether they are in a big or small operations. Data can provide insights that can help to answer the key business questions through dashboard, and dashboard leads to insights. Business owners and managers can turn those insights into decisions and actions that improve the business. This is the power of dashboard. To turn the data into a dashboard, the data should pass several steps. This process could take a long time if there is a huge amount of data. Which is happened right now in Telin Hong Kong Ltd. The time needed for data processing, starts with pulling the raw data from servers and transform into the aggregated value that shown in the dashboard, took more than 2 hours. Thus, could lead to postponed decision making. Therefore, it is needed to develop a good architecture to process this data, to make the data processing run faster. In this research, Apache Zeppelin is used, because it fast enough to process a lot of data in a short time. So, the data could be shown in the dashboard in a short time, and could help the decision making as soon as possible.

Keywords: data, data processing, dashboard, architecture, apache zeppelin