



Check out the homepage of *S.E.A.L.*



The project *Smart Encoding Analyzer for Logs* or short *S.E.A.L.* originated in a cooperation between the *HTL-Mössingerstraße* and *Bitmovin*. The project analyzes encoding log files from Bitmovins production system, extracts performance related metrics, stores the data and presents the filtered information in an easily comprehensible way.



Problem

The company *Bitmovin* produces for each “Encoding Job” one large log file. These log files are used by developers to verify the program code, for example for efficiency. The manual checking is impossible because everyday thousands of log files are generated. Therefore a tool is required that simplifies the analysis.



Main Function

S.E.A.L. can be broken down to four stages.

1. STAGE:
Get log files out of *Google Cloud*.
2. STAGE:
Process each log file and filter out important metrics.
3. STAGE:
Store filtered data in database *Elasticsearch*.
4. STAGE:
Visualize the saved data via graphs in a dashboard of *Kibana*.



Benefit

S.E.A.L. provides a quick overview of the log files to the developers. In addition, the development team is notified via the communication tool *Slack* if an error occurs in the log files.

