

Kern BI



Business Intelligence Module for laboratories.

Discover why Kern is the **strategic partner for growth.**

It allows the generation of management dashboards with abbreviated relevant information.

Kern BI is a platform developed with open source tools (ELK), which allows the extraction of productive data to a denormalized database for its exploitation. ELK is composed of three main components: Elasticsearch, Logstash and Kibana.

Elasticsearch is a free and open distributed analytics and analysis engine for all data types, including textual, numeric, geospatial, structured and unstructured. It provides the ability to store and search data in the system.

Known for its simple REST APIs, distributed nature, speed and scalability, Elasticsearch is the core component of the Elastic Stack, a set of free and open tools for data ingestion, enrichment, storage, analysis and visualization.

Logstash is a server-side data processing pipeline that handles the extraction, transformation, filtering and delivery of information to a centralized repository called Elasticsearch.

Kibana allows us to create Visualizations and Dashboards to visualize in a correct and friendly way, the information collected in Elasticsearch. It provides a web interface from which you can configure the representations and filters on the data. These panels can include interactive tables or graphs that can be updated in real time.

With these 3 ELK components (Elasticsearch, Logstash and Kibana) the following functions are available:

- * Data manager
- * Distributed storage
- * Information Processing
- * Visualizations and Dashboard
- * Real-time queries



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