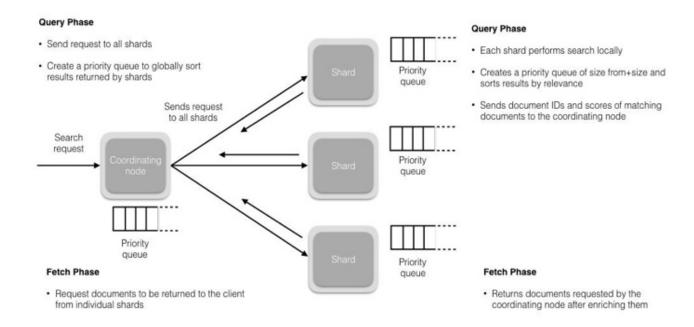
## Elasticsearch & Kibana

#### Flasticsearch

- Full-text search engine.
- Based on the Lucene library.
- HTTP web interface and schema-free JSON documents.



#### Understanding Kibana aggregations

- There are two types of aggregations
  - Bucket aggregations groups documents together in one bucket according to your logic and requirements
  - Metric aggregations are used to calculate a value for each bucket based on the documents inside the

Metric aggregations	Bucket aggregations
Count Sum Average Media Min Max Unique Count Standard Deviation Percentiles Percentile Ranks	Date Histogram     Date Range     Filters     Histogram     IPv4 Range     Range     Terms     Significant Terms     Geohash

#### Basic Charts

Area	For visualizing time series data and for splitting lines on fields	Users over time
Heart Map	For showing statistical outliers and are often used for latency values	Latency and outliers
Horizontal Ber	Good for showing relationships between two fields	URL and referrer
Line	are a simple way to show time series and are good for splitting lines to show anomalies	Average CPU over time by host
<b>₽</b> e	Useful for displaying parts of a whole	Top 5 memory consuming system procs
Vertical Bar	Great for time series data and for splitting lines across fields	URLs over time

### Data

Data Table	Best way to split across multiple fields in a custom way	Top user, host, pod, container by usage
Gouge	A way to show the status of a specific metric using thresholds you define	Memory consumption limits
(8) Goal	Similar to a Gauge, useful for monitoring a specific metric defined as a goal	No. of errors per service
42 Metric	Useful visualization for displaying a calculation as a single number	No. of Docker containers run.

# Map, Time series, and Others

Coordinate Map	Region Map	Help add a geographical dimension to IP-based logs	Geographic origin of web server requests.
Timelan	J. Visual Builder	Allows you to create more advanced queries based on time series data	Percentage of 500 errors over time

THT Controls	Experimental - Allows you to create selectors or sliders for alternating between options.	Switch between
M + Markdown	A great way to add a customized text or image based visualization to your dashboard based on markdown syntax	Company logo or a description of a dashboard
Tag Cloud	Helps display groups of words sized by their importance	Countries sending requests to a web server
>	Experimental - allows you to add custom visualizations based on Vega and VegaLite	•

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