

Republic of Tunisia  
Minister of Higher Education  
and Scientific Research



Faculty of Sciences of Sfax  
Computer Science and  
Communications Departement

# Server Monitoring System using Graylog

Realized at



**Mr. Ali SALEM**  
President

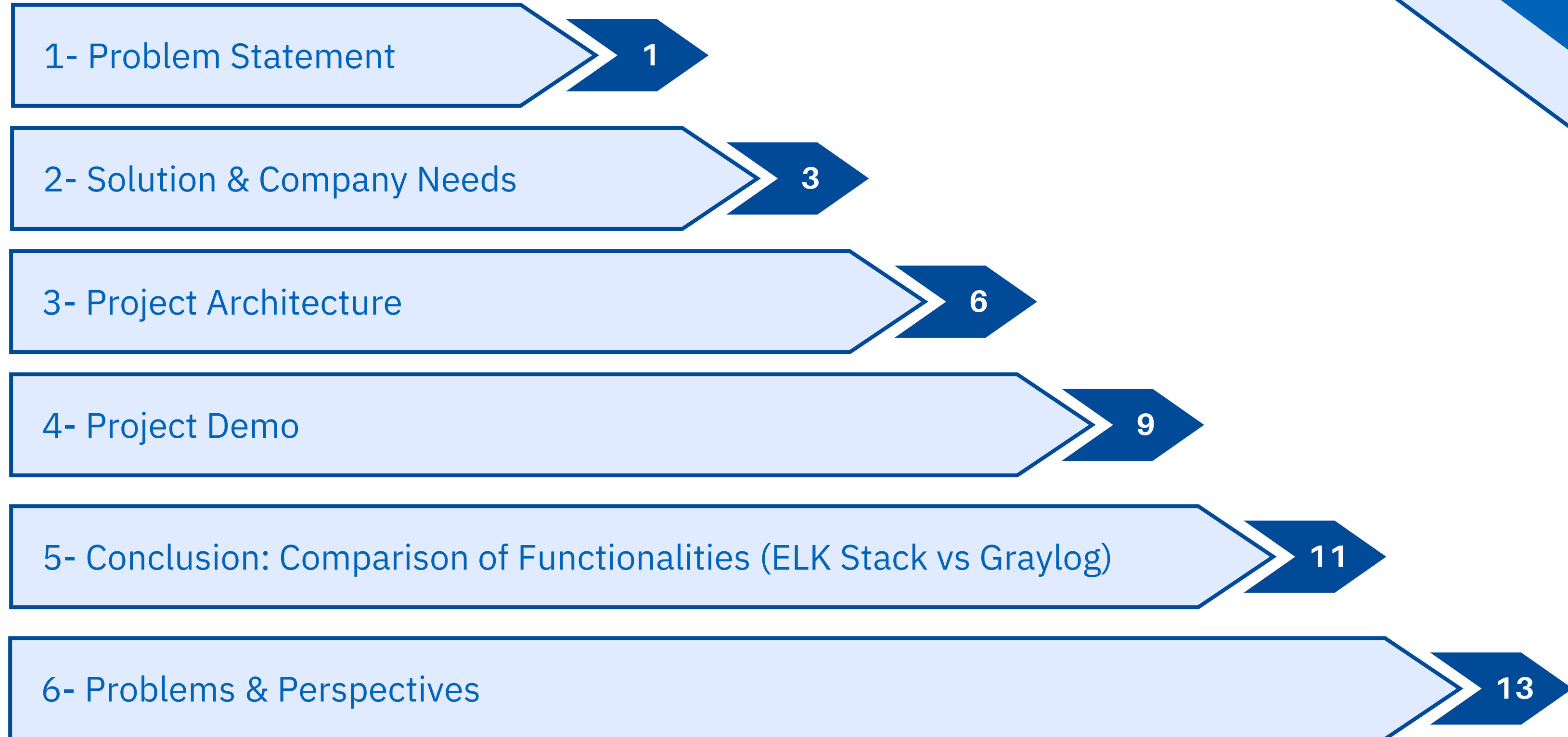
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Examiner

Realized by:  
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**Maryem Aloulou**

**Mr. Boulbaba BEN AMMAR**  
Academic supervisor

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# Plan



# LOG DATA

Timestamp

Source

2023-06-06 14:40:05.590

mail.sifast.com

Jun 6 16:40:02 mail postfix/postqueue[1348231]: fatal: Queue report unavailable - mail system is down

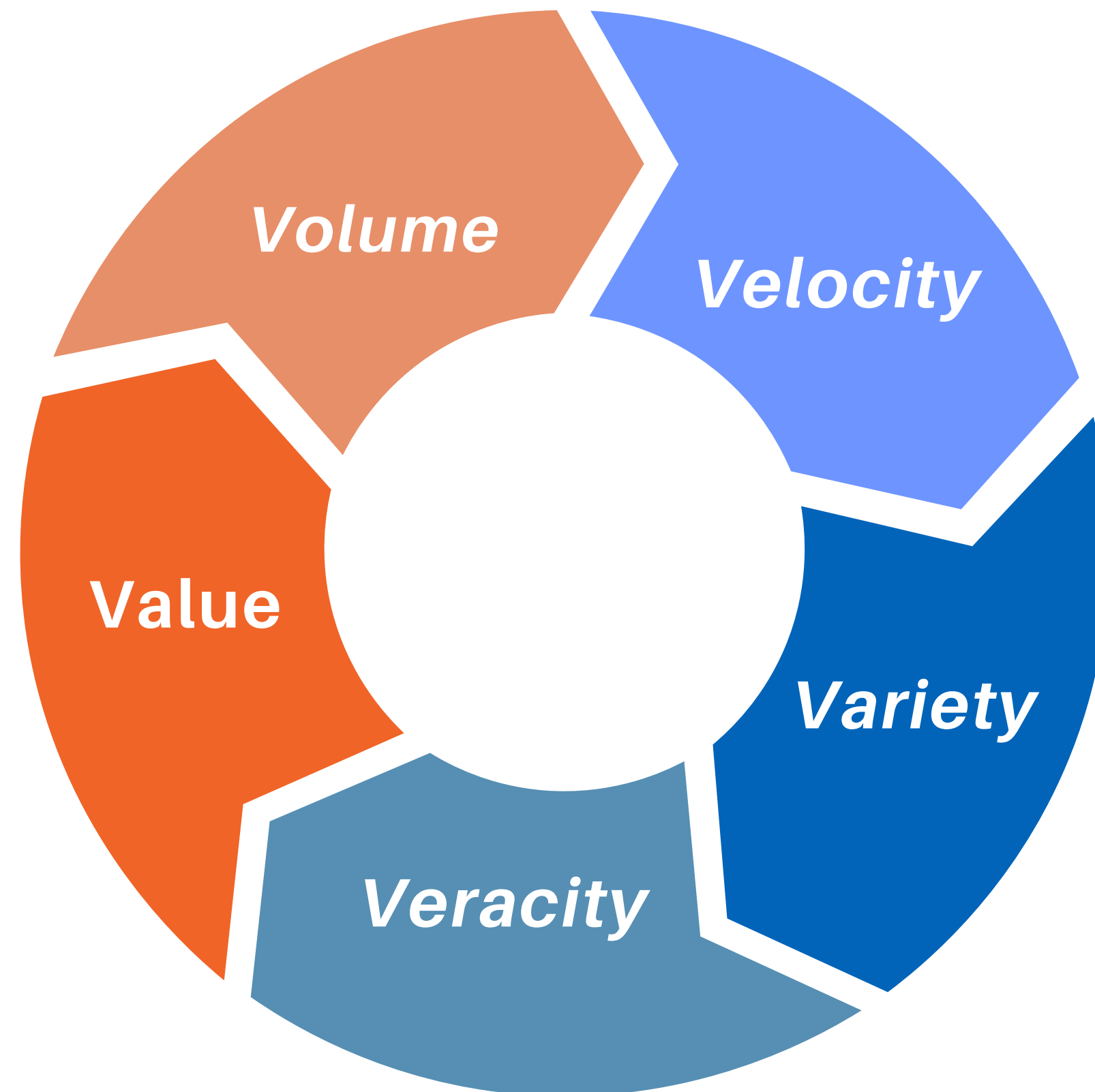
Service

Date & Time

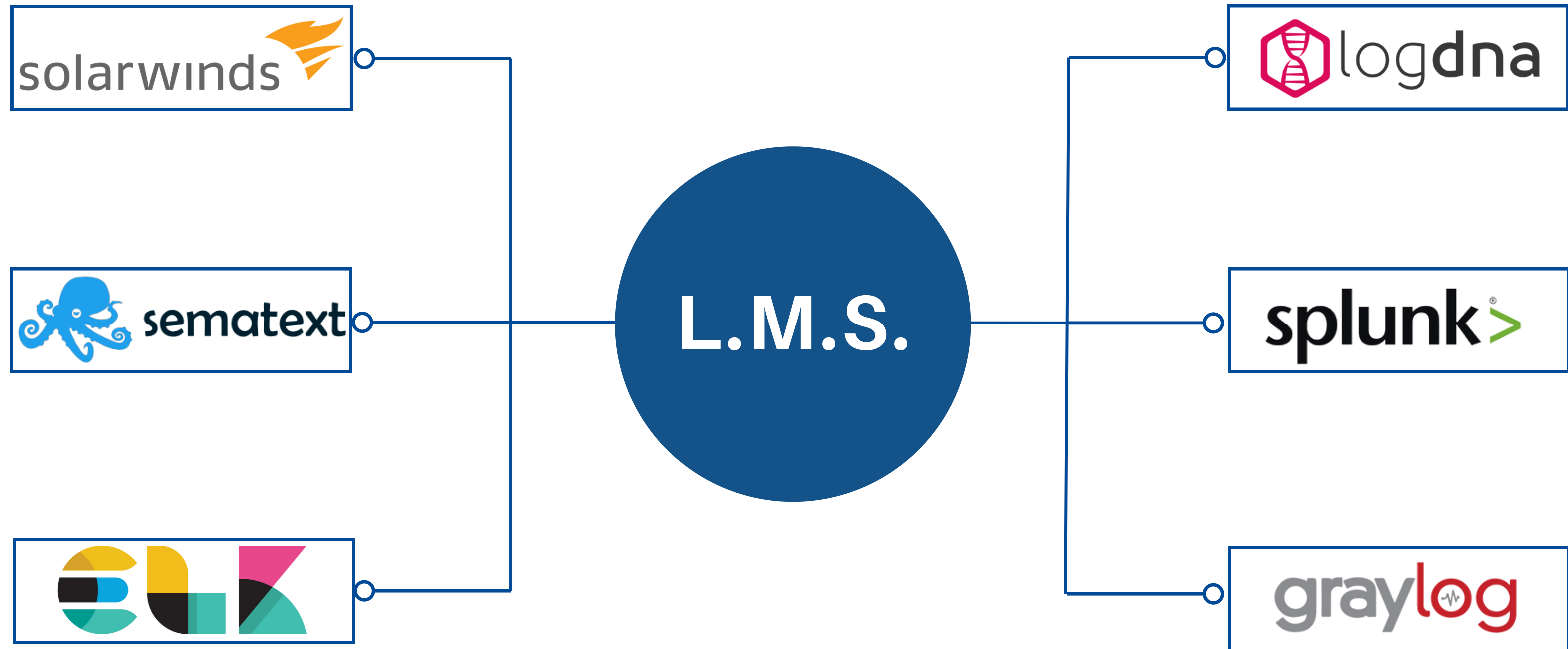
Process within  
the server that  
generate the  
log entry

Message

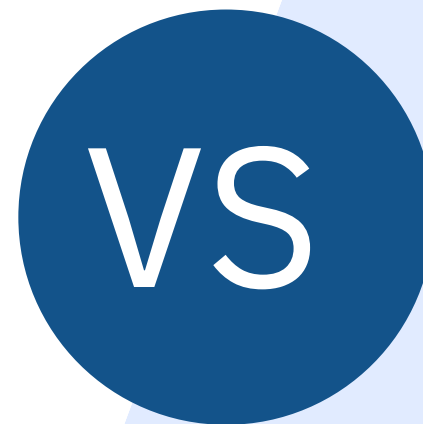
# BIG DATA



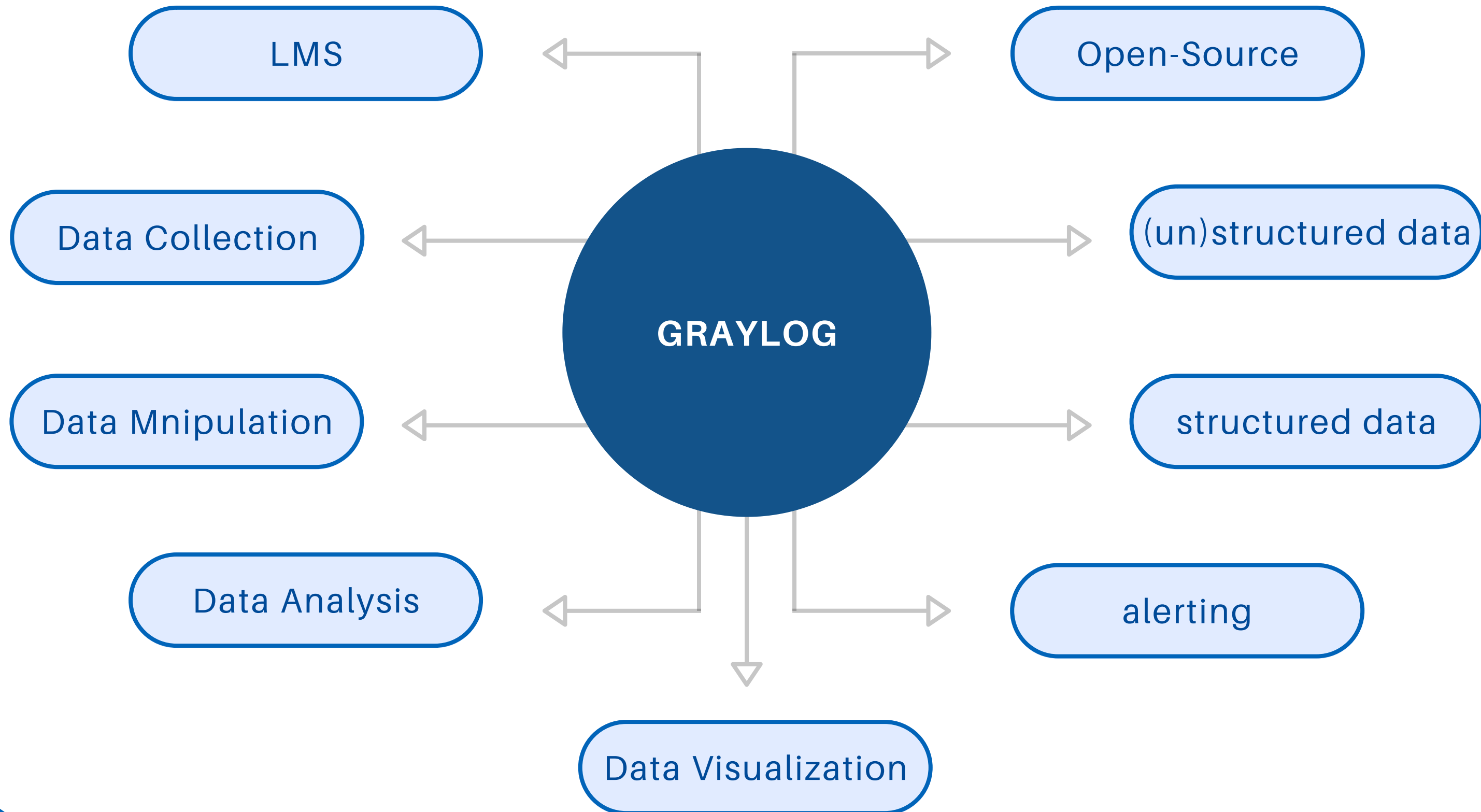
# Solution



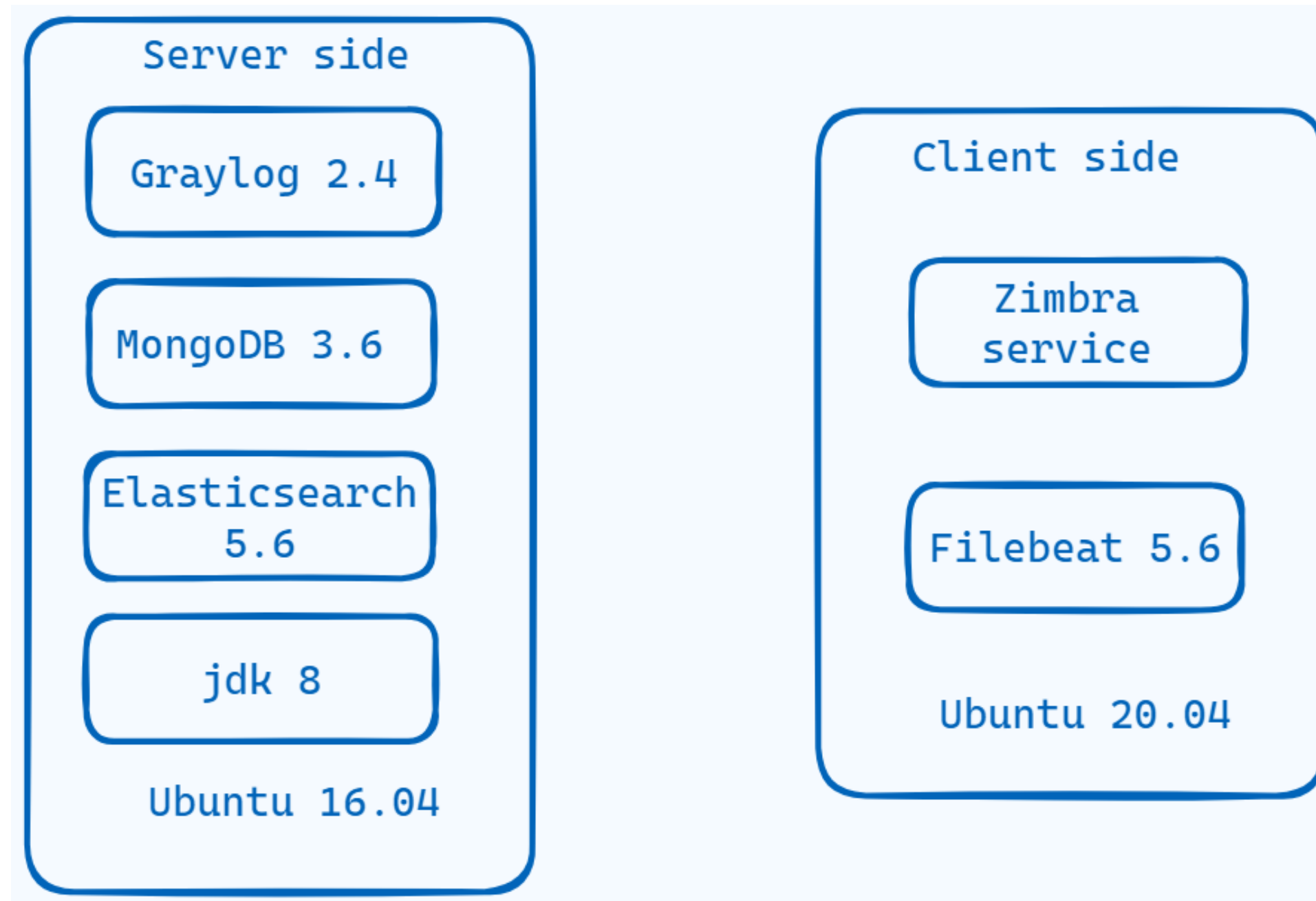
# The Company Needs



# What is Graylog ?

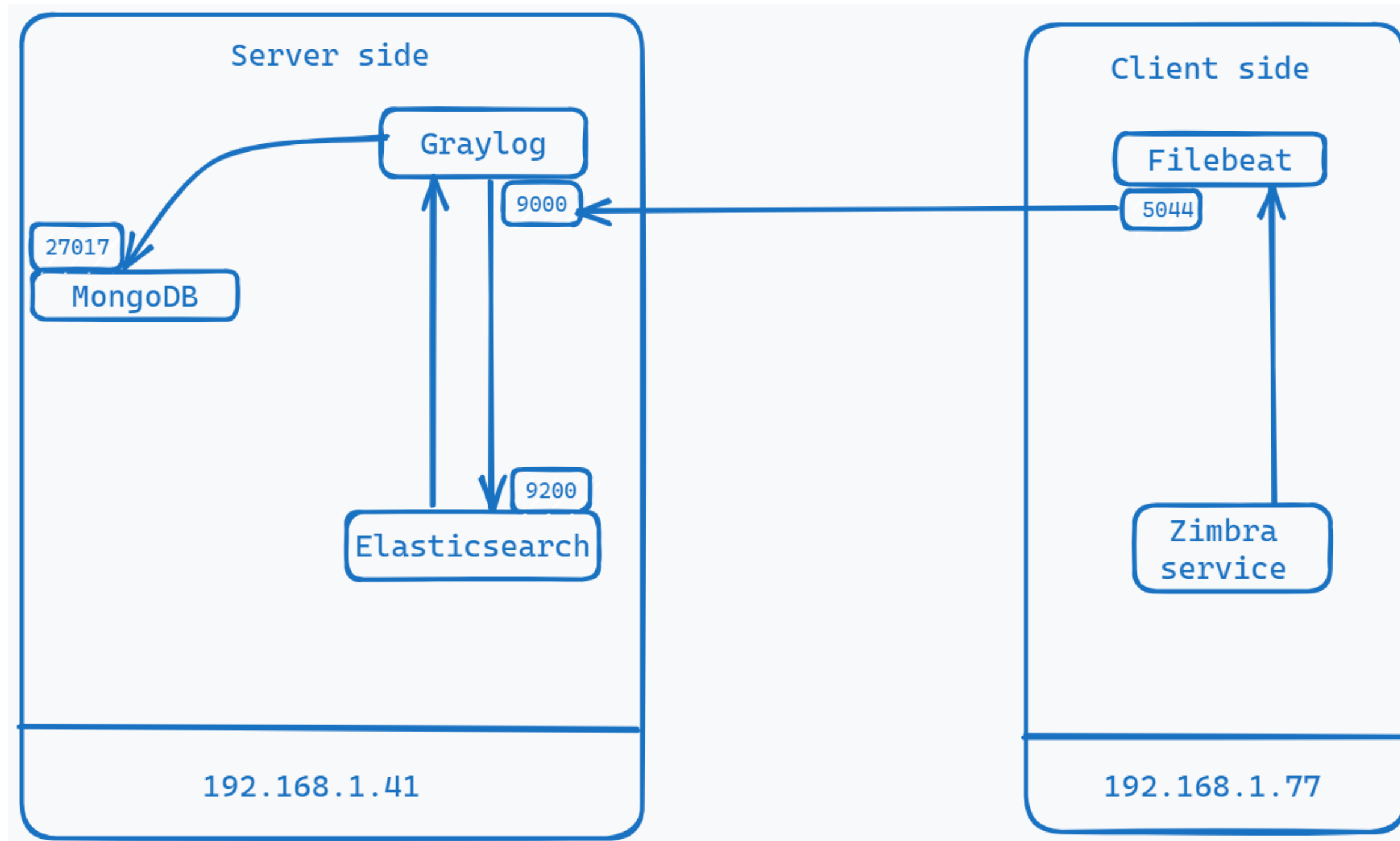


# Requirements

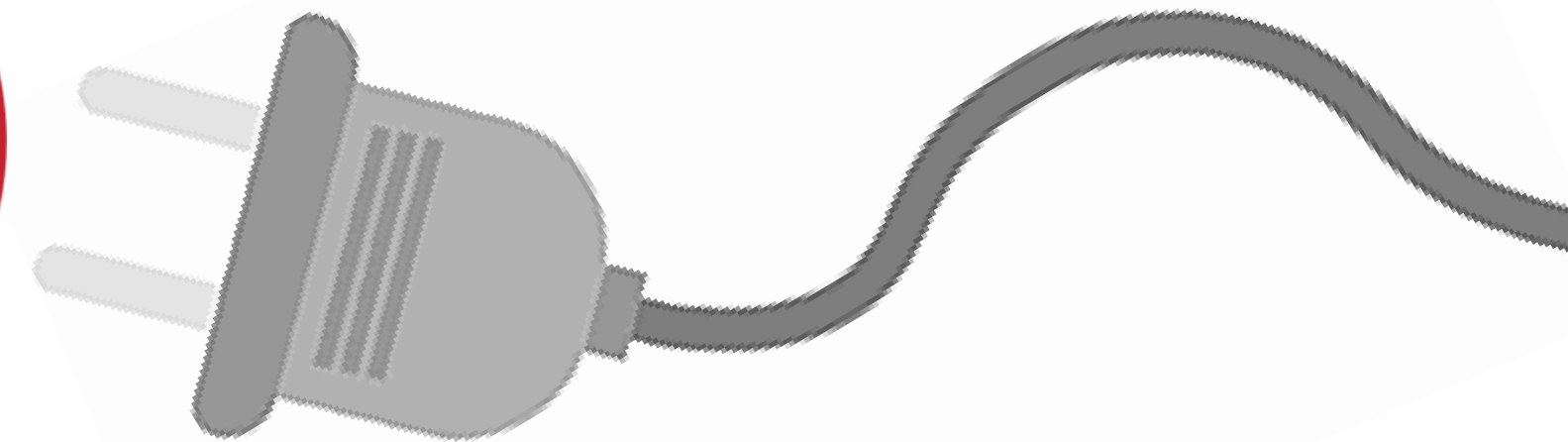
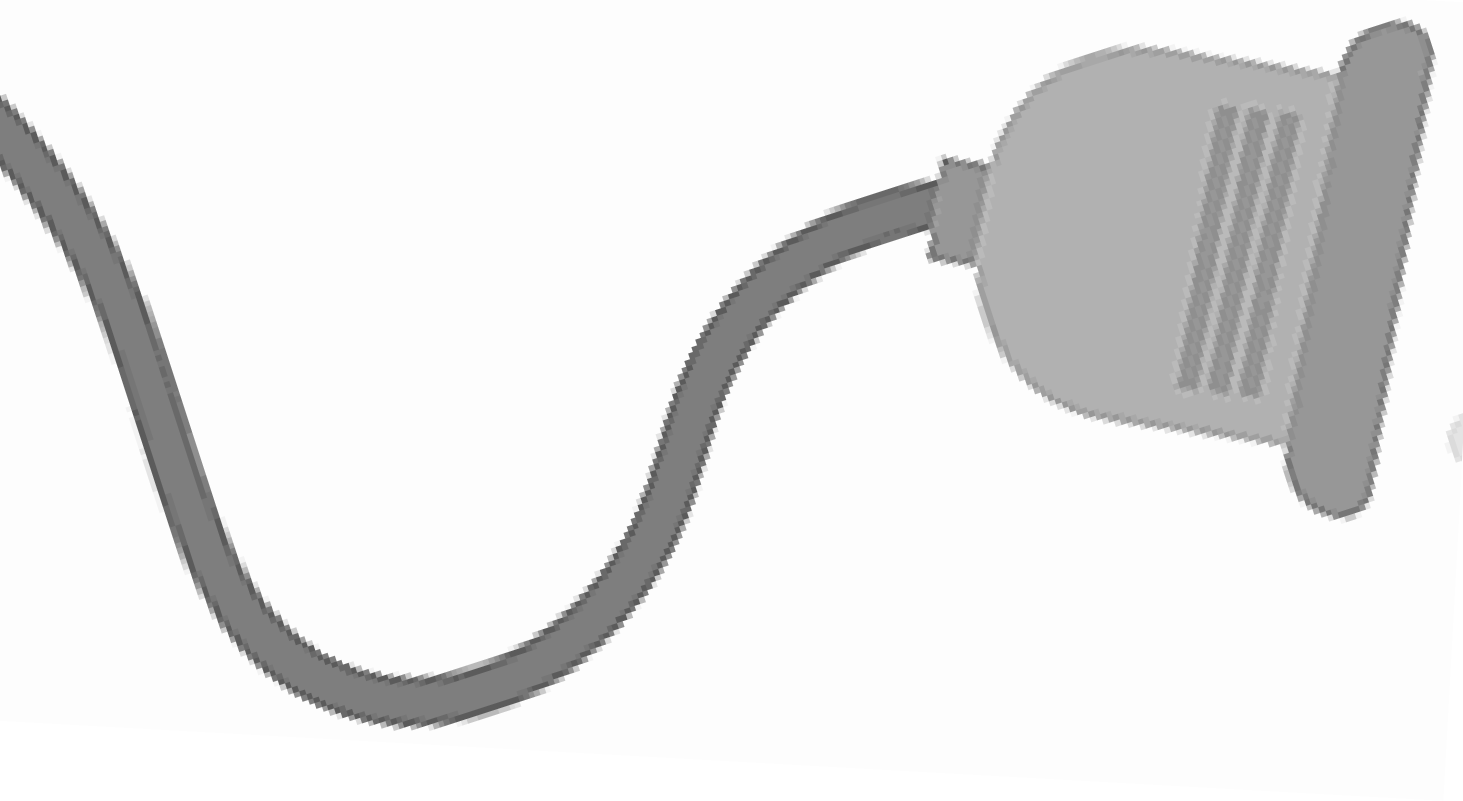




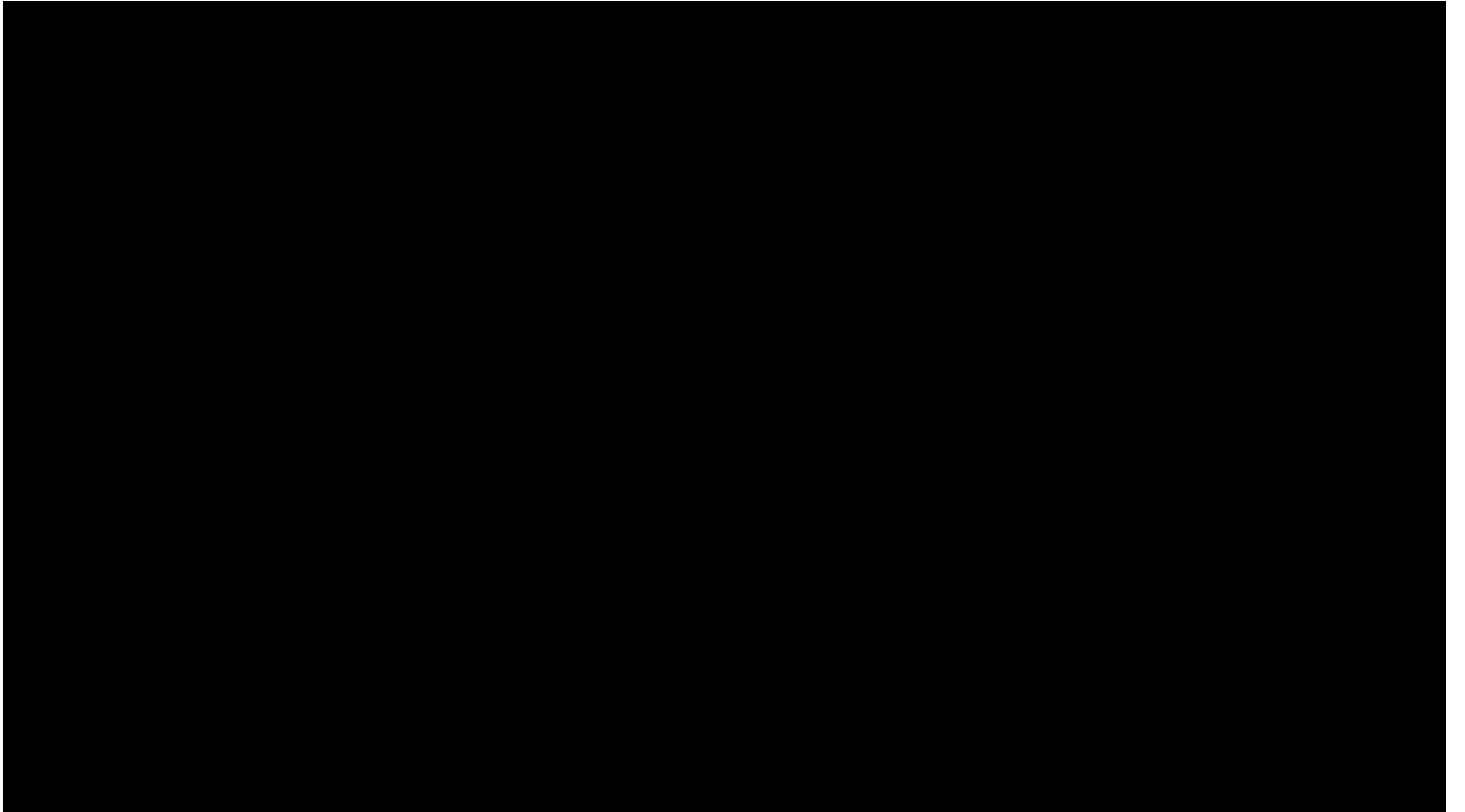
# System Architecture



# Plugins



# Demo



# Comparison of Functionalities:

## Graylog VS ELK

Graylog

ELK

Monitoring

Relies on bash commands for accessing internal metrics

Extensive monitoring capabilities through interactive UI

Data  
Visualization

Basic data visualization capabilities with built-in charts and dashboards

Powerful pre-built visualization with Kibana's extensive charting options

Graylog

ELK

Security

Authentication credentials by default

Requires manual activation and extensive configuration

Alerting

Default alerting capabilities

Available only for paid subscriptions

Email notification triggering

Possibility to integrate third-party plugins

# Problems and perspectives



# Thank You !

Any Questions ?



