

I Love Logging

Structured Logging with
Free/OpenSource Tools

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About Jens Kühnel

Freelancing Trainer, System Administrator,
Consultant and Author since 2000

Bachelor of Science in Computer Science

This is based on my thesis,
available at <http://it-hure.de/>

I Love Logging

Informal Mailinglist of people interested in
OpenSource Logging using different tools.

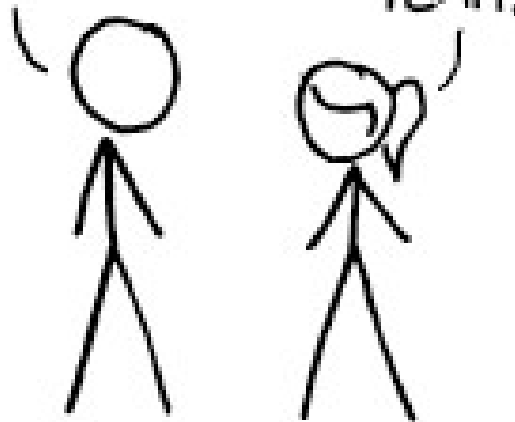
syslog vs. structured Logging

Formats

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



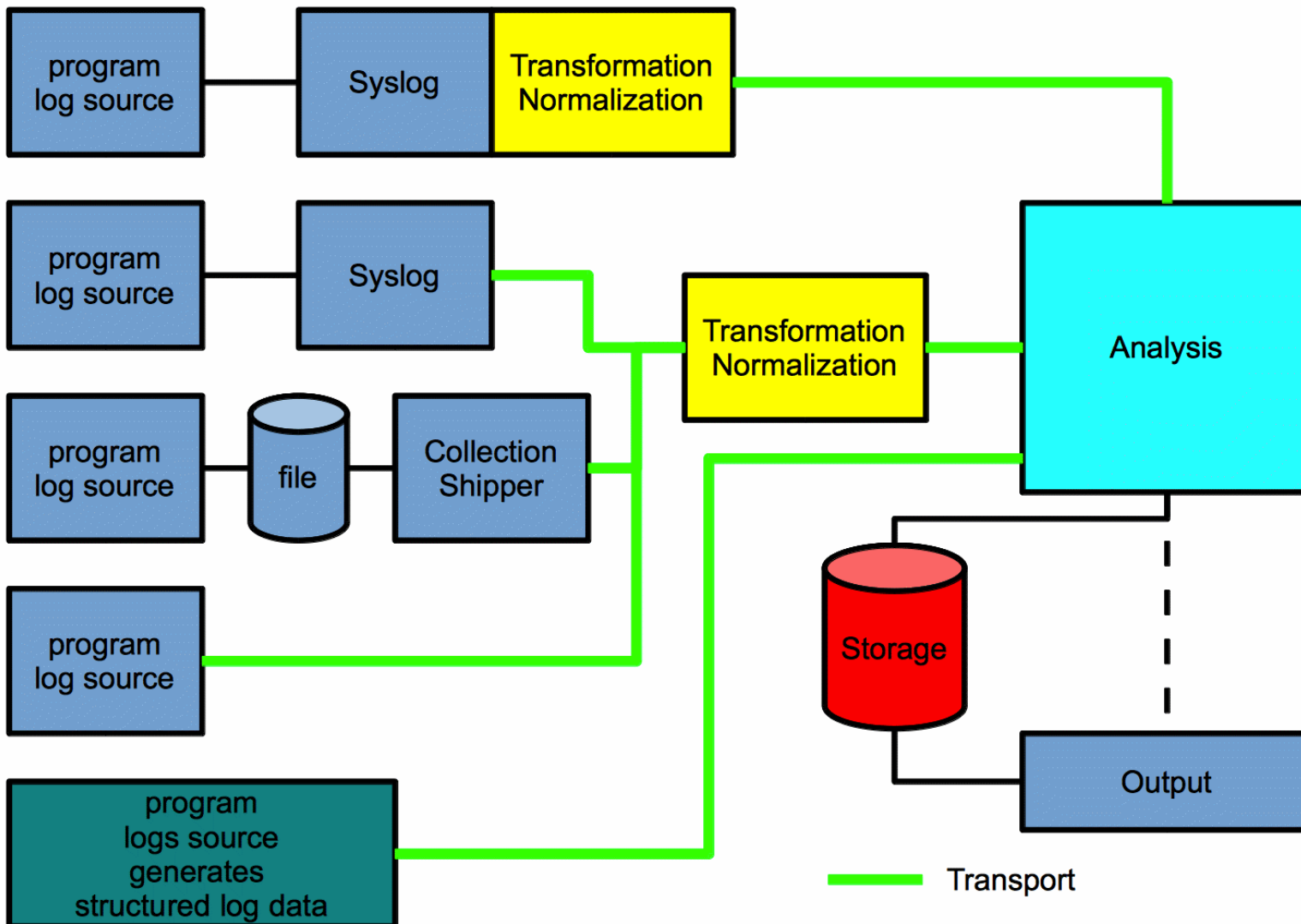
SOON:

SITUATION:
THERE ARE
15 COMPETING
STANDARDS.

Formats

- syslog BSD and IETF
- JSON
 - CEE / Project Lumberjack
 - GELF
 - logstash
 - systemd Journal

Ways of the log message



Transport

syslog IETF/BSD TCP/UDP/(RELp)

redis

AMQP/STOMP (ActiveMQ/RabbitMQ)

0mq

logstash-forwarder (Lumberjack)

Storage

Elasticsearch

(mongo)

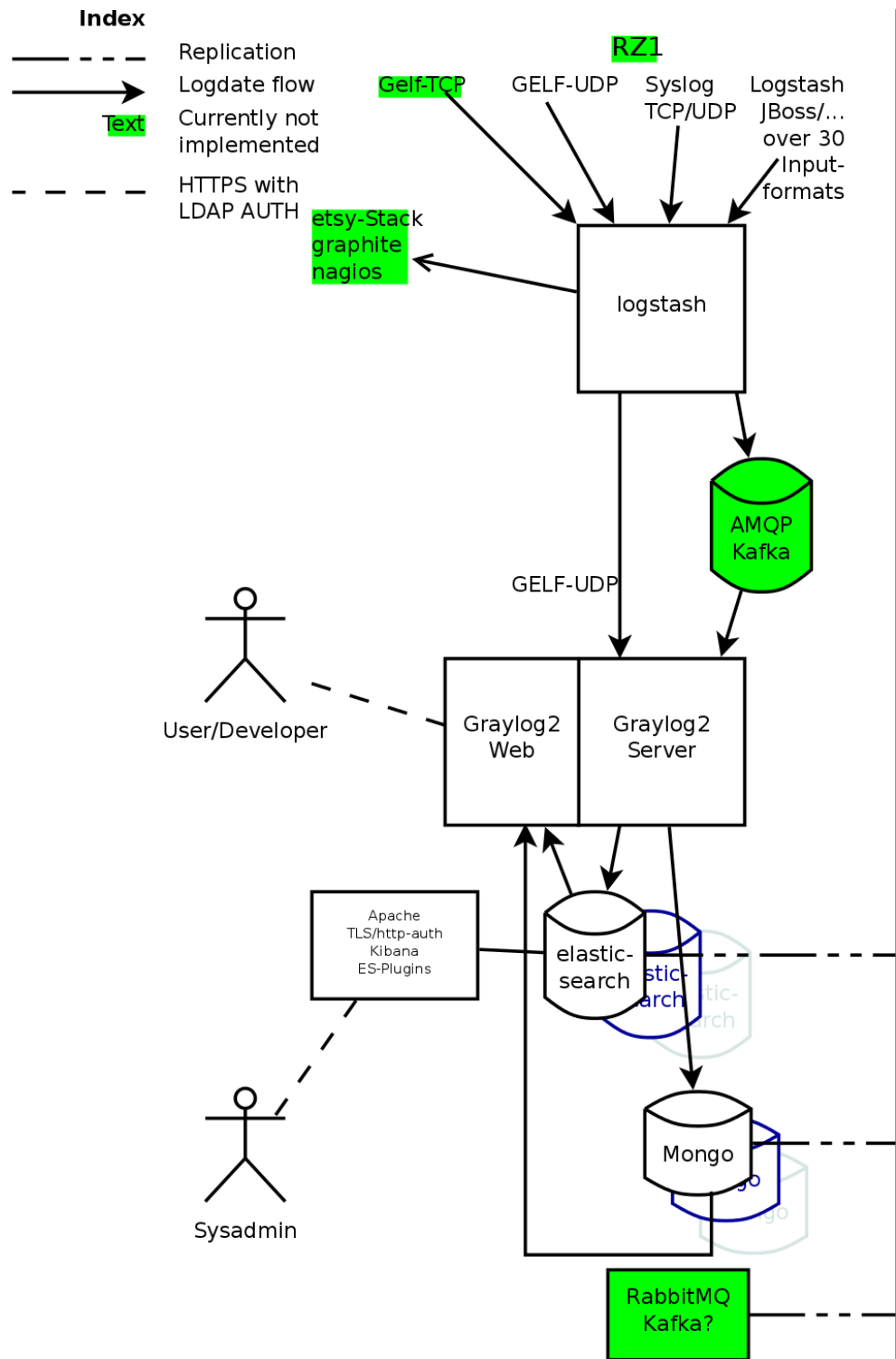
Major Tools

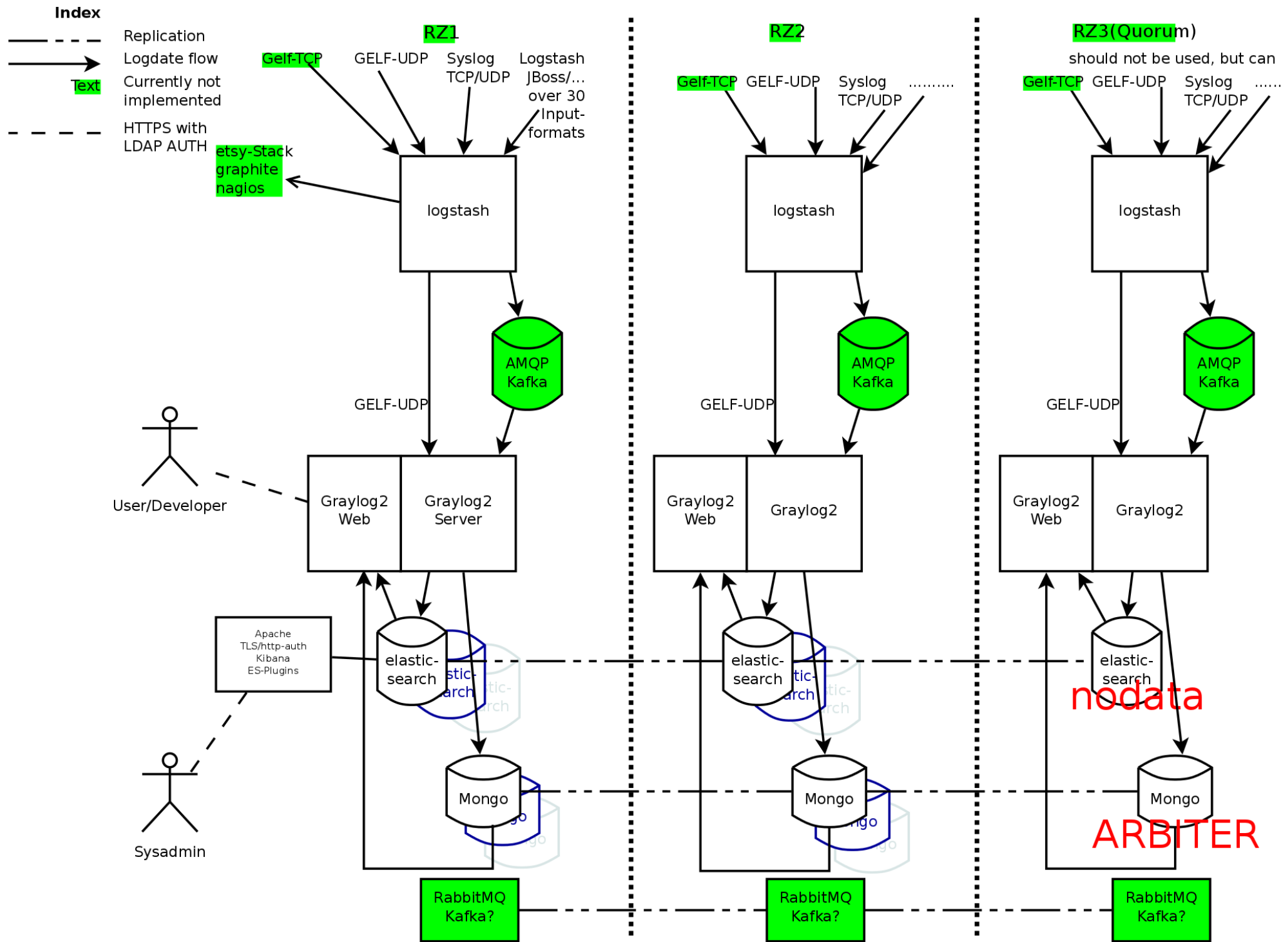
- Rsyslog TSN
- Syslog-ng TSN
- Graylog2 NO
- Logstash TSN
- Kibana O

T=Transport, S=Shipper, N=Normalization,
O=Output

My search for a logging solution

- Requirements
 - User separation
 - Interactive search
 - Automatic normalization
 - Widespread use
- Used Tools at the Moment:
 - Graylog2
 - Logstash
 - rsyslog
 -





I Love logging

Join the logging fun :-)
<http://Ilovelogging.org/>

My bachelor thesis will be
available there soon.