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

I Love Logging

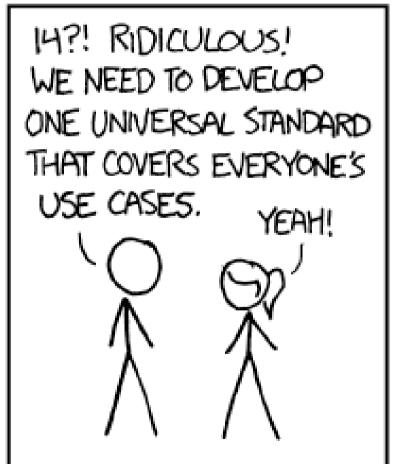
Informal Mailinglist of people interested in OpenSource Logging using different tools.

syslog vs. structured Logging

Formats

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

SITUATION: THERE ARE 14 COMPETING STANDARDS.



500N: SITUATION: THERE ARE 15 COMPETING STANDARDS.

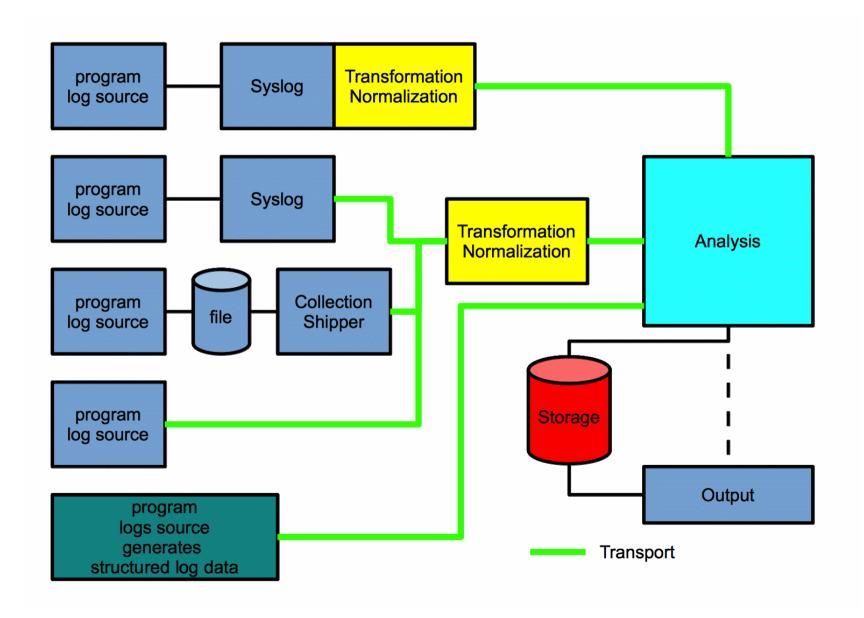
Source: http://xkcd.com/927/

Formats

syslog BSD and IETF

- JSON
 - CEE / Project Lumberjack
 - GELF
 - logstash
 - systemd Journal
 - Nested vs. Flat

Ways of the log message



Transport

syslog IETF/BSD TCP/UDP/(RELP)

redis

AMQP/STOMP (ActiveMQ/RabbitMQ)

Omq

logstash-forwarder (Lumberjack)

Storage

Elasticsearch

(mongo)

Major Tools

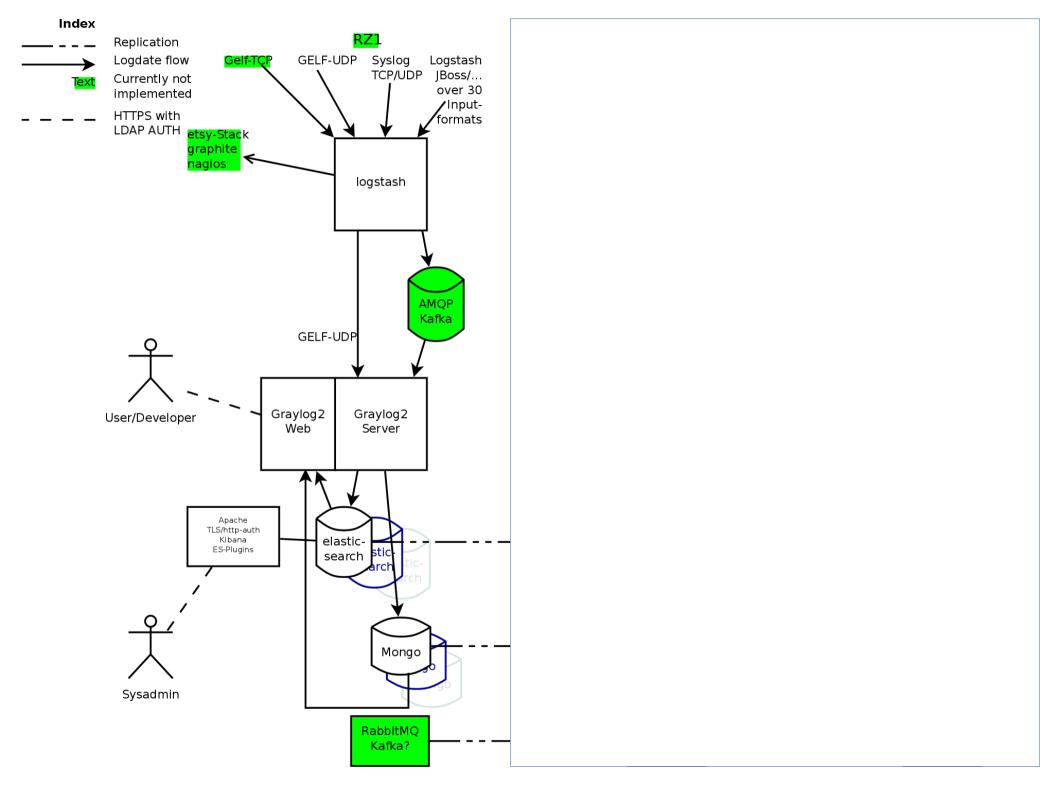
- Rsyslog TSN
- Syslog-ng TSN
- Graylog2 NO
- Logstash TSN
- Kibana O

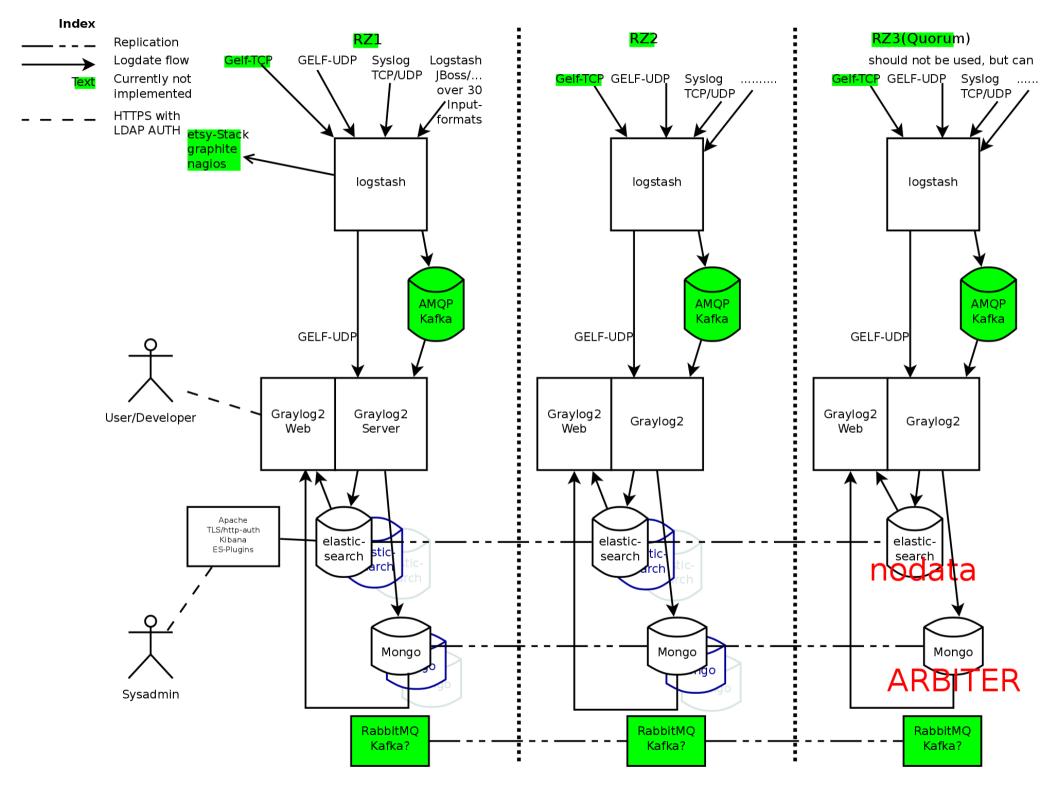
T=Transport, S=Shipper, N=Normalization, O=Output

My search for a logging solution

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

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Join the logging fun :-) http://llovelogging.org/

My bachelor thesis will be available there soon.