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Sardana Logging with ELK stack

Grzegorz Kowalski (SOLARIS) & Antonio Milán Otero (MAX IV)
Dolní Břežany, 05.06.2018



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ELK stack?



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Elasticsearch Logstash Kibana + LogTrail

Grzegorz Kowalski (SOLARIS) & Antonio Milán Otero (MAX IV)
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elasticsearch

- Full-text search engine
- Based on Apache Lucene
- Distributed and scalable
- Near real-time searching
- Most popular enterprise search engine



StackExchange



mozilla
FOUNDATION

NETFLIX


SOUNDCLOUD



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- Data processor and aggregator
- Log parsing and splitting
- Data pipelines with filters
- Output to Elasticsearch



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LogTrail

- Data visualization
- Data analysis
- Works on top of Elasticsearch cluster

- Kibana plugin
- Log analysis and searching
- Event aggregation
- Live tail
- Filtering



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Sounds great?

Grzegorz Kowalski (SOLARIS) & Antonio Milán Otero (MAX IV)
Dolní Břežany, 05.06.2018



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Sounds great.
But how to use it with Sardana?

Grzegorz Kowalski (SOLARIS) & Antonio Milán Otero (MAX IV)
Dolní Břežany, 05.06.2018



Option 1:

B beats

- Recommended way of getting data into Logstash
- Different beats for different kind of data
- Filebeat: put a file into Logstash
- Great for log files

but

Beats require a fairly modern OS



Option 2: Sardana Logstash log handler

- › Sardana logs directly into Logstash
- › Depends only on `python-logstash`
- › Extremely simple setup

The screenshot shows the Jive 7.10 software interface. The title bar reads "Jive 7.10 [10.54.11.10:10000]". The menu bar includes "File", "Edit", "Tools", and "Filter". The main window is titled "Device:/Pool/test/1/Properties". On the left, there is a tree view showing a "Pool" node with a "test" child node, which has a "Properties" node selected. The right panel displays "Device properties [Pool/test/1]" with a table:

Property name	Value
LogstashHost	vc7-services.demo.ext.daneos.com
LogstashPort	5959

At the bottom of the right panel are buttons for "Refresh", "Apply", "New property", "Copy", and "Delete".



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Sardana PR #699

Grzegorz Kowalski (SOLARIS) & Antonio Milán Otero (MAX IV)
Dolní Břežany, 05.06.2018



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The purpose

Short and boring answer: Sardana live monitoring and diagnostics

Longer answer: live demo!



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Thank you!

Grzegorz Kowalski (SOLARIS) & Antonio Milán Otero (MAX IV)
Dolní Břežany, 05.06.2018