



**INDONESIA**  
*OpenInfra Days*

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# Simple Log Monitoring with Prometheus and Grafana

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# About Me

- DevOps engineer of PT. Gits Indonesia (<https://www.gits.id>)
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# Background

**Log monitoring system**

**Light resource**

**Rich content of Dashboard**

**Alternate for Elasticsearch Logstash and Kibana Stack**



## How About Grafana Loki?

Nope, we will not talk about it in this class

# <> What is Prometheus?

Open-source systems monitoring and alerting toolkit originally built at SoundCloud.

Since its inception in 2012, many companies and organizations have adopted Prometheus.

The project has a very active developer and user community. It is now a standalone open source project and maintained independently of any company.

Prometheus joined the Cloud Native Computing Foundation in 2016 as the second hosted project, after Kubernetes.

# <> Grok Exporter

- Grok is a tool to parse crappy unstructured log data into something structured and queryable.
- Heavily used in Logstash to provide log data as input for ElasticSearch.
- Grok ships with about 120 predefined patterns for syslog logs, apache and other webserver logs, mysql logs, etc.

# <> Grok Exporter

- [https://github.com/fstab/grok\\_exporter](https://github.com/fstab/grok_exporter)
- Log → grok\_exporter → prometheus?

# <> Unstructured to Structured

- Unstructured :
  - ERROR 30.07.2016 14:37:03 alice 1.5
  - WARNING 30.07.2016 14:37:33 alice 2.5
  - ERROR 30.07.2016 14:43:02 bob 2.5
  - ERROR 30.07.2016 14:45:59 alice 2.5



# <> Unstructured to Structured

- Structured :
  - LOGLEVEL: ERROR
  - DATE: 30.07.2016
  - TIME: 14:37:03
  - USER: alice

# <> grok\_exporter config file

- Input:
  - type: file
  - path: ./example.log
- grok:
  - patterns\_dir: ./logstash-patterns

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# DEMO



# DEMO

Tools:

- grok\_exporter
- <http://grokconstructor.appspot.com/do/match>

# Thank you!

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