Introduction to Loki

January 31 2020

CentOS Dojo Brussels
"like Prometheus, for logs"

- Born / April 2018
- Publicly announced / End 2018
- v1.0 / End 2019
"like Prometheus"

- Open Source
- Same governance rules
- Same license
- Labels
- Configuration feels the same
- Usage feels the same
Loki

- Easy to use and install
- Multiple services
- Service Discovery
- LogQL
Components

- Loki
- Single process or multi process
- Promtail
- Fluentbit plugin
- Grafana
Architecture

Promtail
- Discovery
- Pipesines

Loki
- Ingestor
- Distributor
- Querier

Grafana

logcli

Fluentbit + Plugin

Files
- k8s
- syslog
- systemd
• Loki does NOT index log text
• Cost Effective
• Logs have labels, per job, file
• Query per label then filter per job
• Discover files
• Kubernetes integration
• Pipelines: alter logs, add metrics
Promtail has its interface
CLI: Logcli
Web: Grafana Explore + Log Panel
Conclusion

- Open Source
- There is a community to build
- Nice integration with Grafana (and only Grafana)
- Easy to use
- K8s ready but not only
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