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Introduction to Loki

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Loki

"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
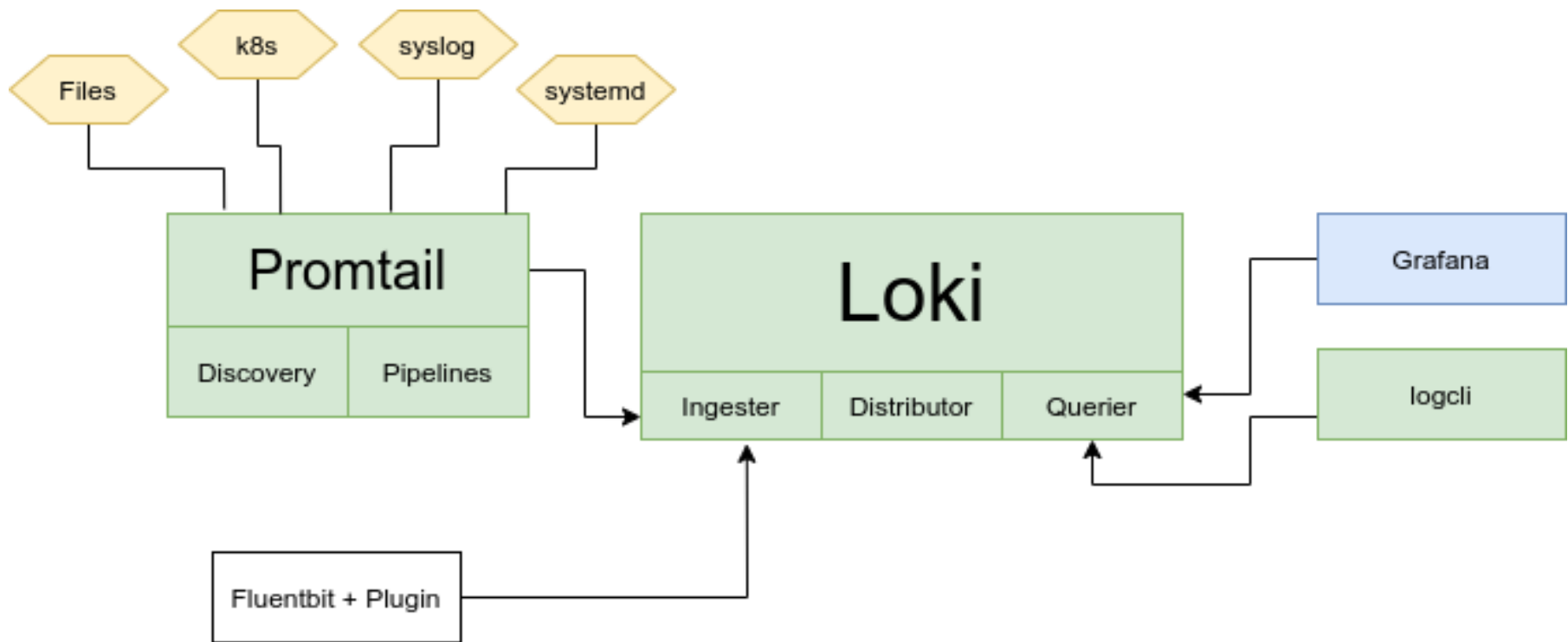- Configuration feels the same
- Usage feels the same

Loki

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

Components

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

Architecture

Logs

- Loki does NOT index log text
- Cost Effective
- Logs have labels, per job, file
- Query per label then filter per job

Promtail

- Discover files
- Kubernetes integration
- Pipelines: alter logs, add metrics

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Interface

- 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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