



Logging, Monitoring and Performance

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Agenda

- Logging in OCP
 - Logging Components & Architecture
 - Logging from UI
 - Hands on
- Metrics in OCP
 - Metrics Components & Architecture
 - Metrics in UI
 - Hands on
- Stretch assignment
 - Autoscale application based on metrics
- MicroService Scale and Performance Testing
 - About Perf and Scale testing
 - Introduction to example application and test use cases
 - Demo



OpenShift Logging

An integrated solution for exploring and corroborating application logs



Observability via log exploration with EFK

Components

- Elasticsearch: a search and analytics engine to store logs
- Fluentd: gathers logs and sends to Elasticsearch.
- Kibana: A web UI for Elasticsearch.

Access control

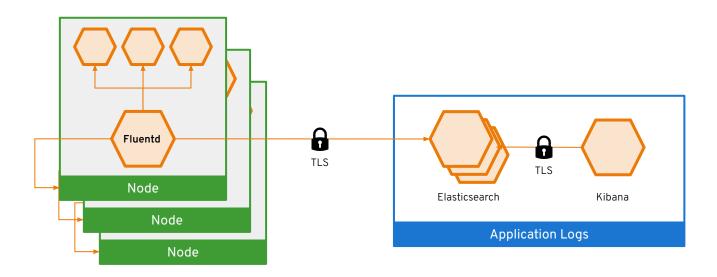
- Cluster administrators can view all logs
- Users can only view logs for their projects

Ability to forward logs elsewhere

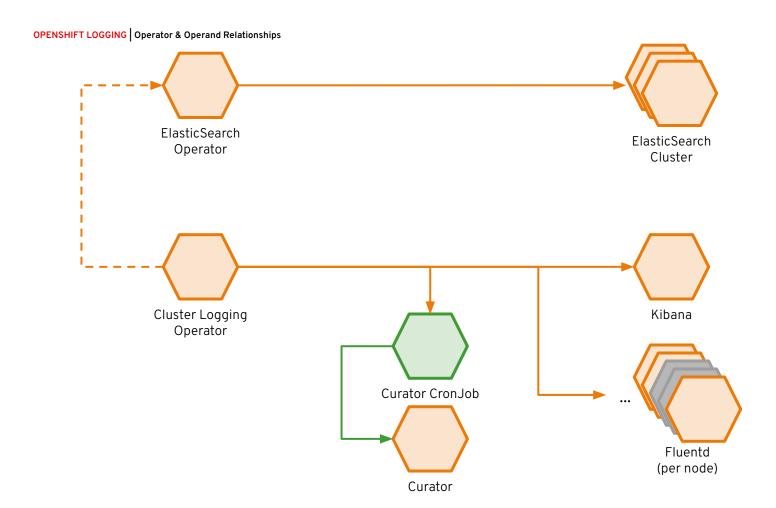
• External elasticsearch, fluent, syslog, cloudwatch, loki, kafka, ...



Log data flow in OpenShift

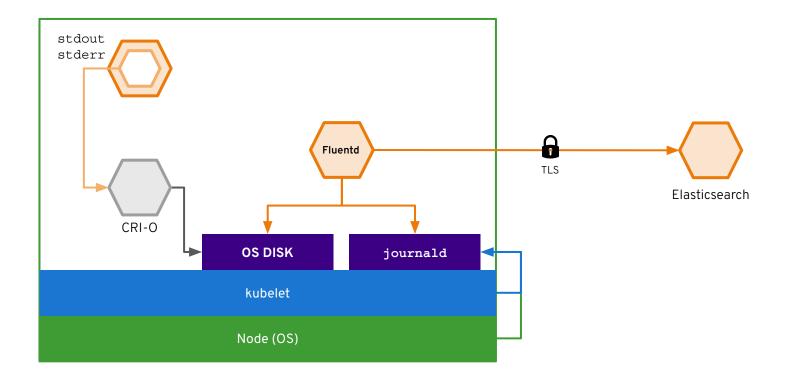






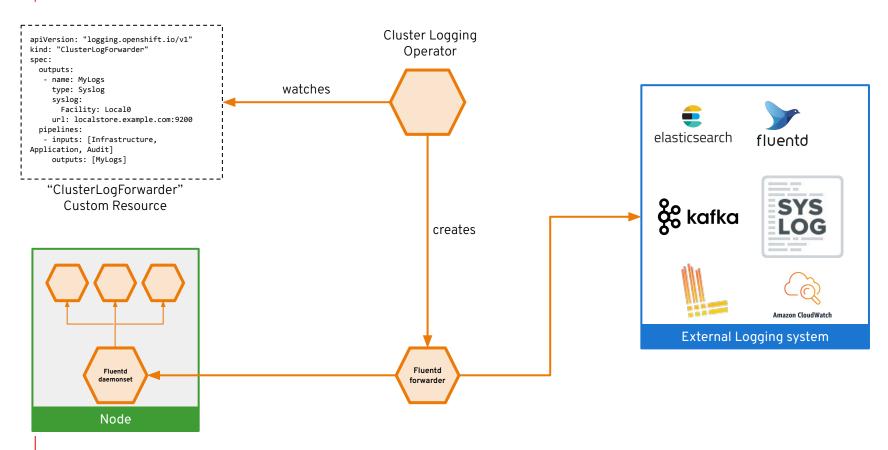


Log data flow in OpenShift





Secure Log Forwarding to 3rd party





OpenShift Monitoring

An integrated cluster monitoring and alerting stack



OpenShift Cluster Monitoring





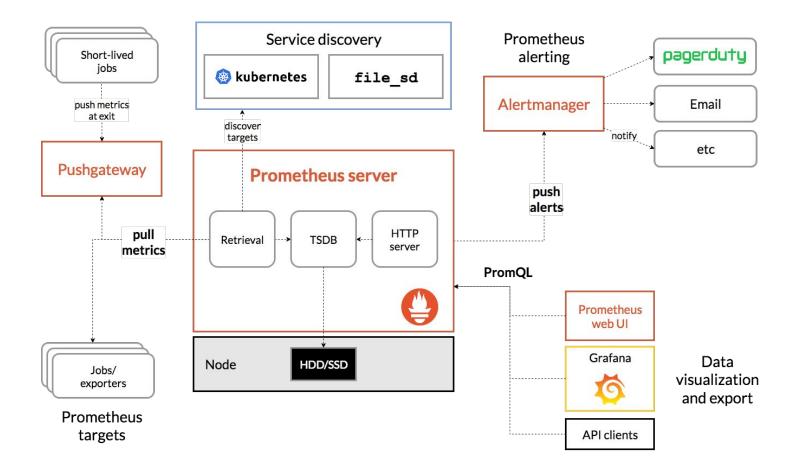


Alerting/notification via Prometheus' Alertmanager, an open-source tool that handles alerts send by Prometheus.

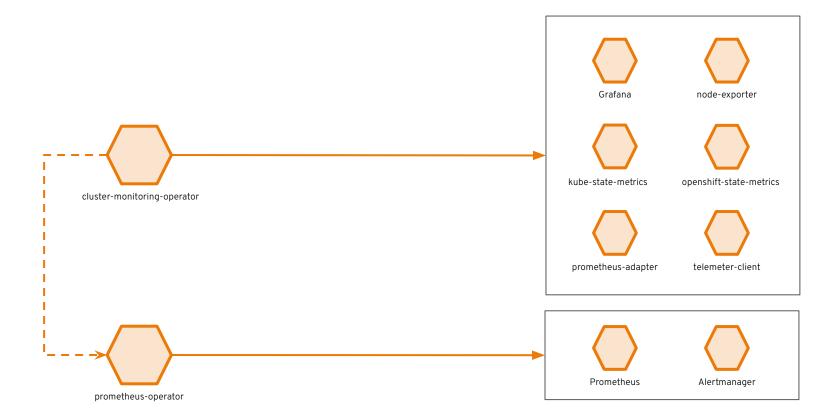


Metrics visualization via Grafana, the leading metrics visualization technology.











OPENSHIFT MONITORING | Prometheus, Grafana and Alertmanager Wiring

