

Curating Log files

GOPALIKA SHARMA
PAARTH KOTAK

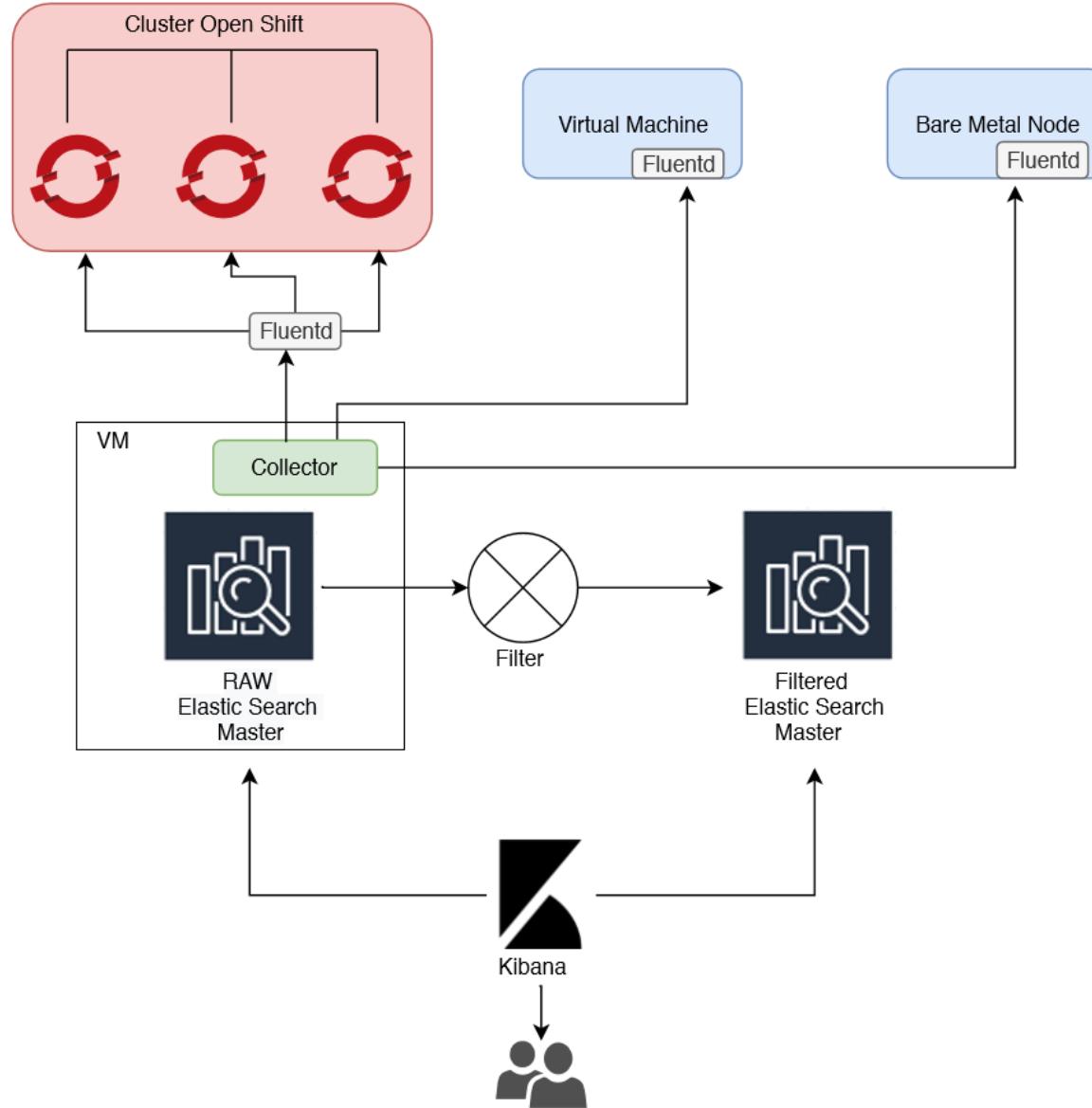
PRACHI VED
RASHI CHAUHAN

Purpose of our project

To build a system which will start to capture the system logs generated at MOC, automate the process of anonymizing logs and organize logs by a methodology which will help to see if there is a pattern such as demands on different services and how they are correlated.

Technology Overview

1. **OpenShift:** Enterprise-ready Kubernetes container platform with Full-stack automated operations to manage hybrid cloud and multi-cloud deployments.
2. **Elasticsearch:** Search engine which provides a distributed multi-tenant capable full text search engine.
3. **Kibana :** Open source data visualization plugin for Elasticsearch.



Component Description

1. **Sources:** (OpenShift Cluster, VMs and Bare metal nodes) - Fluentd pods consisting of multiple containers will collect all the logs pertaining to that pod and store it in a file named fluentd.log.
2. **Collector:** Script to collect logs from all fluentd.log on all sources and push them in ElasticSearch index.
3. **RAW ElasticSearch Master:** Index containing all raw log files.
4. **Filter Script:** Filter the raw log files using Machine Learning algorithms (After analyzing PII we will decide on a feasible algorithm).
5. **Filtered Elastic Search Master:** Index containing all curated log files.
6. **Kibana:** View the logs.

Lets have a look at
the logs..

