Aggregated Containerized Logging Solution with Fluentd, Elasticsearch and Kibana

Volume 150
Number 3
Year of Publication: 2016

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10.5120/ijca2016911479

Abstract

In the operation and maintenance of cloud production lines, access to logs from containers in order to perform day-to-day investigation and debugging is needed. Logs must be accessible beyond the life of a container. Logs from across the cluster need to be aggregated to allow log searching, backup, and storage. As a solution, this paper present a diagram combined with Fluentd, Elasticsearch and Kibana, that enables the deployment and management of multiple containers log reviewing with a creatively way. The solution perform well efficiently on log collection and indexing. Even though the prototype has been effectively used to deploy and manage containers logging data, serial risks are still needed put into consideration as important issues.

References


Index Terms

Computer Science
Applied Sciences

Keywords

Logging solution, Fluentd, Elasticsearch, Kibana, Proxy, Performance testing.