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Container Logging & DevOps:
The Future of Kubernetes Integration

Lee Liu | CTO & Co-Founder | LogDNA

Dan Garfield | Full Stack Engineer | Codefresh

codefresh

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On-Demand Webinar

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Dan Garfield

Over 3.5 million images built

Customers

GIPHY

Hewlett Packard Enterprise

FamilySearch

unicef

CITRIX

LE FIGARO

arm

Chief Evangelist, Codefresh

Lee Liu

Trusted by over 2,000 companies

Customers

Life360
rainforest
Teespring
lifesize
OpenAI
Segment
instacart

CTO & Co-Founder of LogDNA

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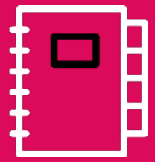

What we will cover today

- Why Logging is Important
- Kubernetes Logging Infrastructure and Setup
- LogDNA Solution
- Demo
- Best Practices
- Questions

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Development Lifecycle

Deploy ***Monitor*** ***Fix***

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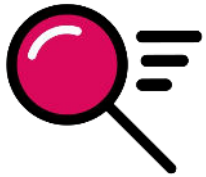

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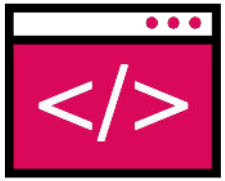

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Why is Logging important

Real-time Insight into production applications reduces downtime

Shortens development and deployment cycles

Better understanding of how your customers use your products

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How to determine business needs

Security/ Compliance

HIPPA, SOC2, Privacy Shield are some of the key asks we see from our customers.

Retention

How long do you need to store your data for with a logging provider.

Volume

How much data on basis will you need to send to a log management system.

Budget

As your business grows so will the amount of logs your applications generate.

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Types of Log Management

Cloud

Send data from your servers to a cloud based logging provider.

On-prem

Download and deploy locally on your own servers.

Multi-Cloud

Send some data to the cloud and deploy an agent to your servers. Your log data can all be viewed from the same web application (assuming you have one provider for both Cloud and On-Prem).

Self managed (i.e. ELK)

Combine Elasticsearch, Logstash and Kibana together and essentially build your own log management service.

Best Practices

- Separate dev and prod into multiple clusters and contexts
- Move variables into enviroment specific ConfigMap
- Separate errors into stderr
- Avoid using sidecars for logging
- Log to stdout for all apps
- Test locally and ephemerally prior to deployment

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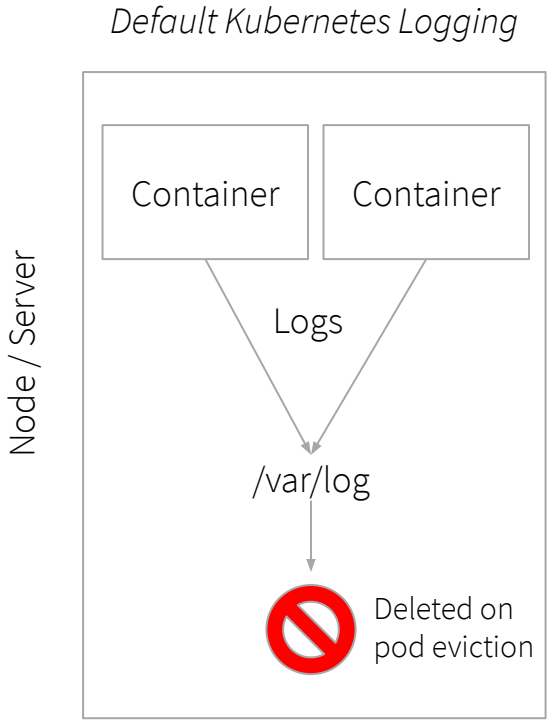
How Kubernetes Handles Logs



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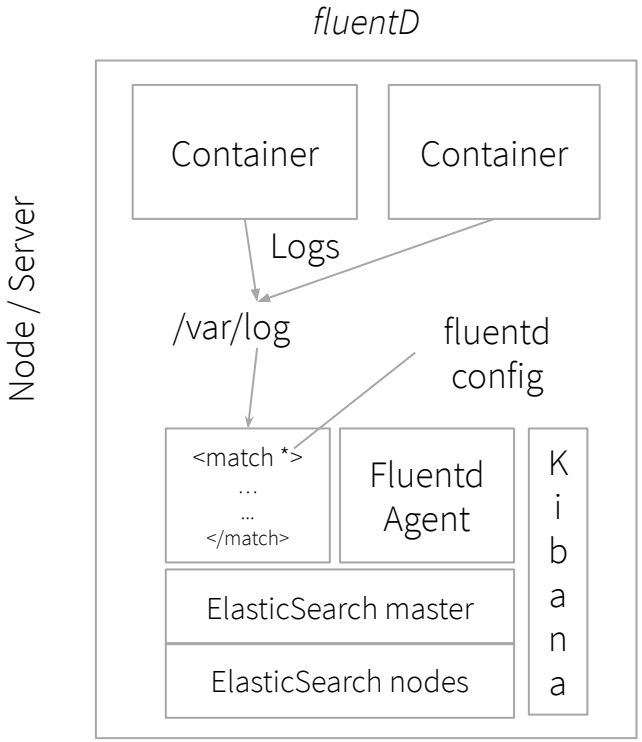
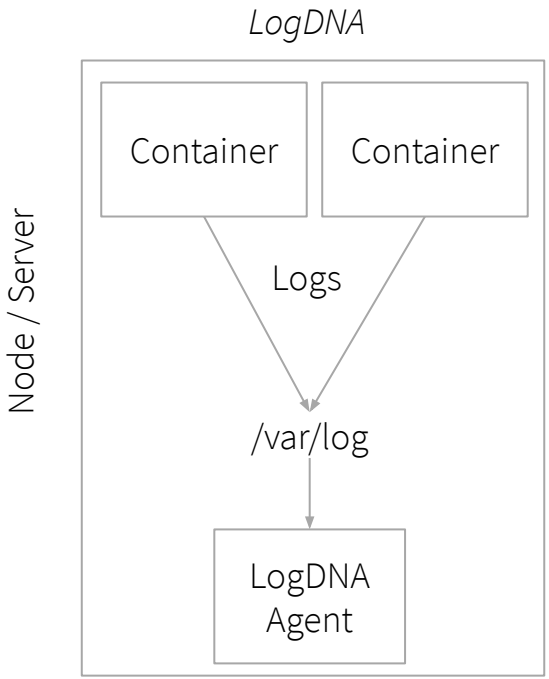
LogDNA vs fluentD Logging Infrastructure





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LogDNA Installs with only 2 kubectl cmds

```
kubectl create secret generic logdna-agent-key
--from-literal=logdna-agent-key=LOGDNA_INGESTION_KEY

kubectl create -f
https://raw.githubusercontent.com/logdna/logdna-agent/master/logdna-agent-ds.yaml
```

We auto extract Kubernetes metadata for search

- Pod Name
- Container Name
- Namespace
- Node

We auto parse

- JSON
- APACHE/Nginx
- MongoDB
- Redis
- 12+ common formats

Quick Demo

- Ingest Logs
- Search, Save and Alerts
- Jump to time
- Graphing
- Real-world detect issue
- Issue fix

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Thank You For Joining Us

Get Started with a Demo!

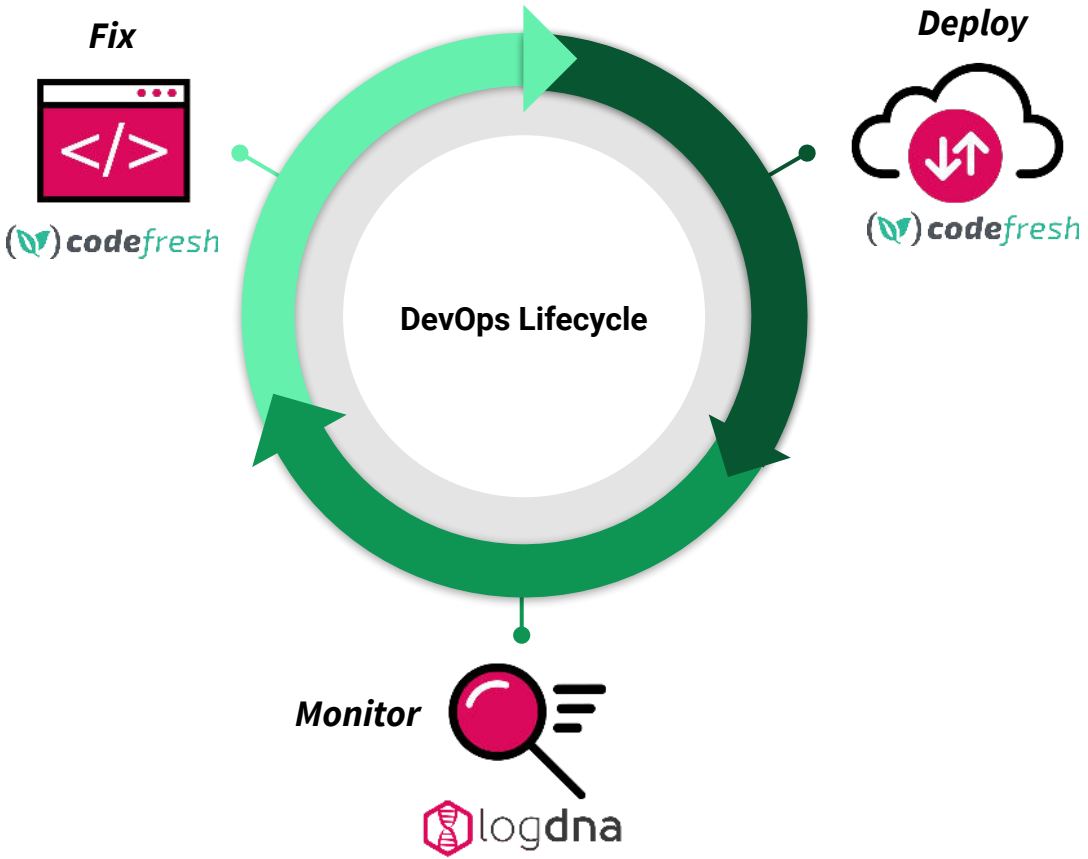
Contact us at:

LogDNA.com

Schedule a 1:1 with us

Get in touch at:

Codefresh.io


Fix
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Deploy
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DevOps Lifecycle
Monitor
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