Pattern: Log deployments and changes

Context

You have applied the Microservice architecture pattern (../microservices.html).

Problem

How to understand the behavior of an application and troubleshoot problems?

Forces

- It useful to see when deployments and other changes occur since issues usually occur immediately after a change

Solution

Log every deployment and every change to the (production) environment.

Examples

A deployment tool can, for example, publish a pseudo-metric (application-metrics.html) whenever it deploys a new version of a service. This metric can then be displayed alongside other metrics enabling changes in application behavior to be correlated with deployments. See Tracking Every Release by Mike Brittain (https://codeascraft.com/2010/12/08/track-every-release/)

AWS Cloud Trail (https://aws.amazon.com/cloudtrail/) provides logs of AWS API calls.

Resulting Context

This pattern has the following benefits:

- Enables deployments and changes to be easily correlated with issues leading to faster resolution.

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