## Monitor and Alert from Elasticsearch and Kibana, in AWS Managed Elasticsearch

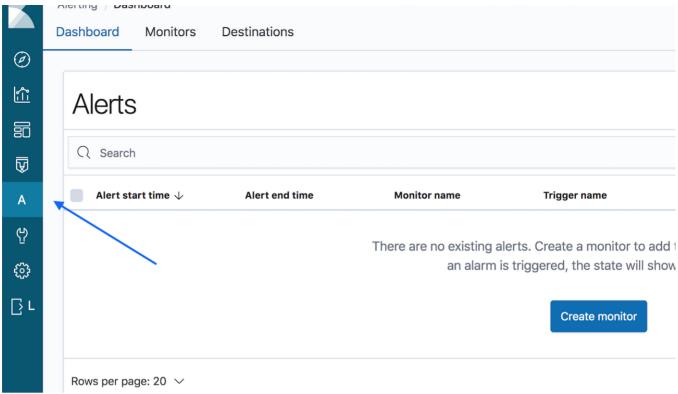




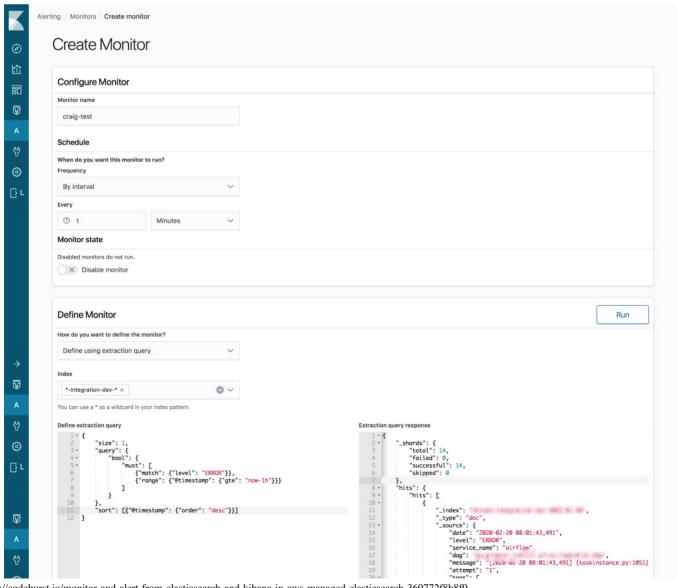
AWS Managed Elasticsearch now has functionality to monitor and alert from Kibana. In the past I have achieved similar functionality using Elastalert, but it has proved to be a bit clunky, so achieving similar functionality within Kibana if preferable to what I need to achieve.

The current setup where I am consulting is to use Grafana, to monitor for changes in logs, which works well due to easy setup of notifications, and ability to point to many different data sources. The problem with Grafana is that within notification channels, it is not possible to use variables, which means you have to identify every single possible problem that may happen, and write some static message in order to send relevant information when the alert is sent out, otherwise you have to stick to generic messages, and hope the person receiving the alert knows where to look.

Alerting is found on the left menu



Once you open the alerting section, the first thing to do is create a monitor.



I wrote a query which would find documents where the propery level is set to ERROR within the last hour, I also collect the first record, sorting by my timestamp.

```
{
    "size": 1,
    "query": {
        "bool": {
            "must": [
                {"match": {"level": "ERROR"}},
                {"range": {"@timestamp": {"gte": "now-1h"}}}
            ]
        }
    "sort": [{"@timestamp": {"order": "desc"}}]
}
```

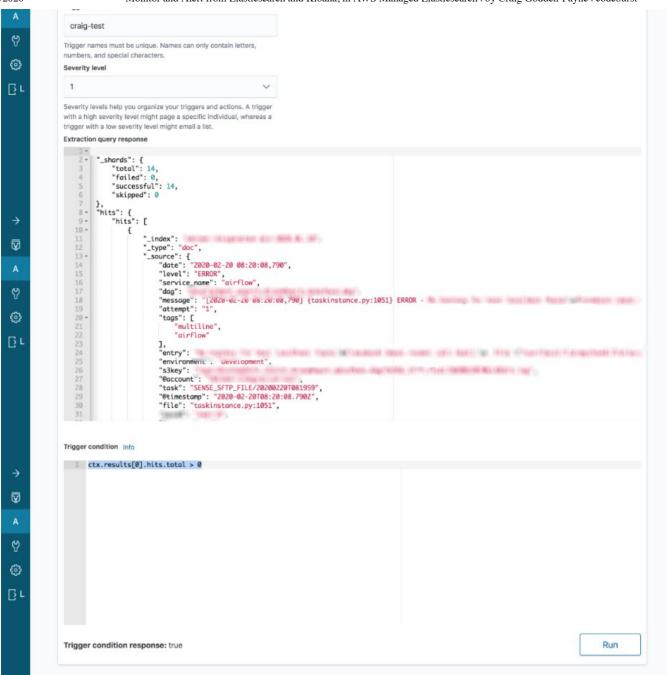
I find using the dev tools in Kibana a great help, as it provides intellisense and autocomplete, when writing queries.

Once the monitor has been created, it is time to create the trigger.

I want to trigger an alert, whenever the count of hits is greater than 0, so I set my trigger condition to be:

```
ctx.results[0].hits.total > 0
```





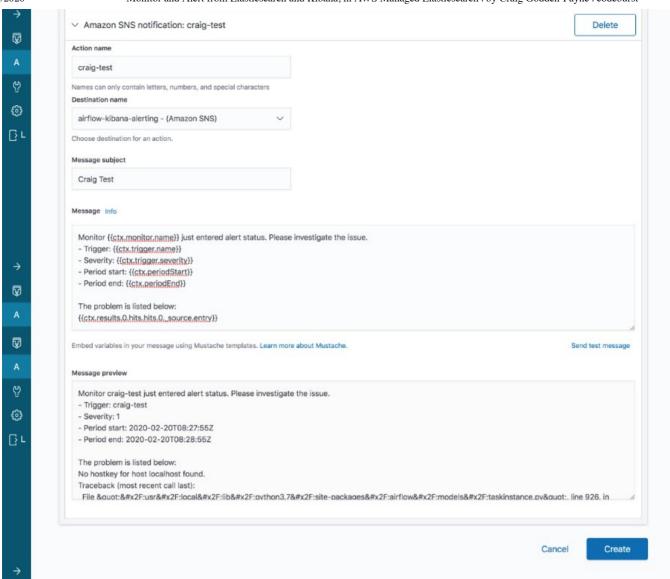
Next is configuring the action.

This was the part I was most interested in, as I want to be able to send the found message via the notification channel, something which I could not do with Grafana.

The notification message gives the following message:

You have access to a "ctx" variable in your painless scripts and action mustache templates.

Since I want to send the 'entry' value in my notification, I can achieve this like so:



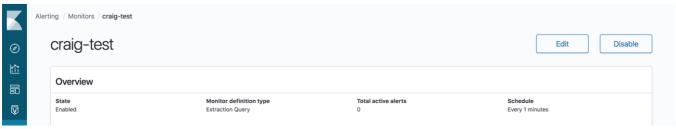
I found not much documentation about painless, so had a few issues accessing array variables, but I quickly figured out you could do this like so:

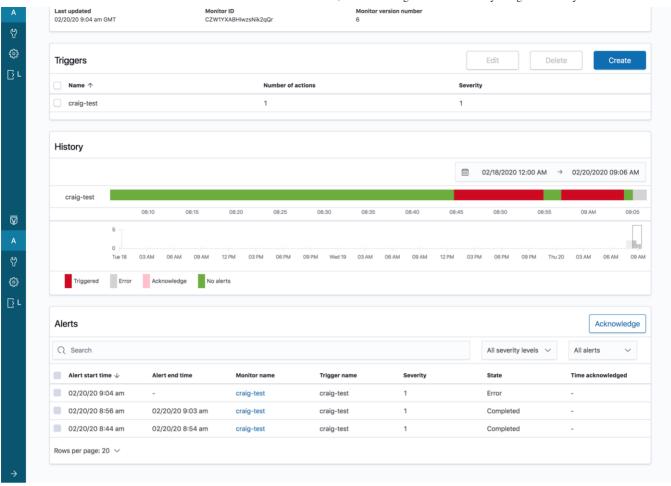
```
{{ctx.results.0.hits.hits.0._source.entry}}
```

Now everything is setup, I wanted to check everything worked as expected.

I actually wired my alert to an SNS topic, and just subscribed my email to all events.

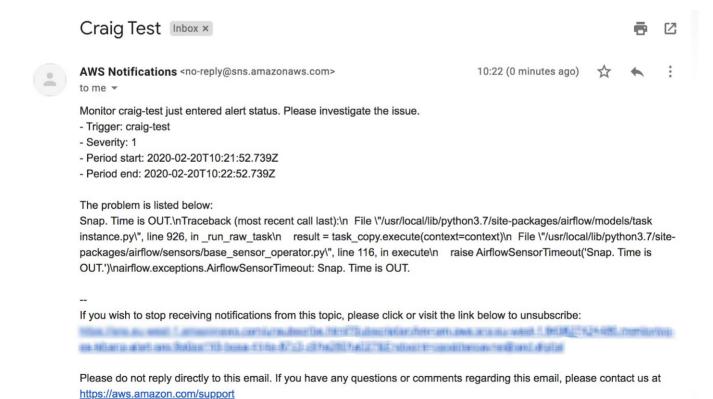
Here it is in action:





## And here was the alert:

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