LFS242 - Cloud Native Logging with Fluentd

Lab 4 – Extending Fluentd with Plugins: Creating Pipelines with Filter Plugins

- What plugins were loaded now?
 - o forward, stdout
- What events will the <filter> directive capture?
 - All of them, because of the double wildcard (**) pattern in the opening
- How many times did Fluentd report that the worker is now running?
 - o Once. It tried to report twice but internal Fluentd events are no longer being captured without a label.
- Using the filter_grep documentation on the Fluentd website, create a configuration that excludes all INFO events

• Find a pattern that will only print events that mention "file"

- Will the original log message be preserved in this configuration? If so, under what key?
 - Yes, it will be nested under the "report" key.
- Will there be a password key appended to the record?
 - No. There is no "password" parameter being declared under the record> subdirective, so no "password" key will be appended
 or edited.
- How many events were recorded?
 - Three. Two GET requests and one error.
- Use cat to read one of the NGINX log files, and compare how that log is presented in Elasticsearch.
 - NGINX log file

```
ubuntu@labsys:~/lab4$ cat /tmp/lab4/nginx/error.log

2021/07/22 20:04:02 [error] 31#31: *4 open() "/usr/share/nginx/html/404" failed (2: No such file or directory), client: 172.17.0.1, server: localhost, request: "GET /404 HTTP/1.1", host: "172.17.0.2"
```

Elasticsearch

```
···· {
```

```
"_index" : "fluentd",
    "_type" : "_doc",
    "_id" : "ViHRz3oBbInj6EVHmnXs",
    "_score" : 1.0,
    "_source" : {
        "log_level" : "error",
        "pid" : "31",
        "tid" : "31",
        "message" : "*4 open() \"/usr/share/nginx/html/404\" failed (2: No such file or directory),
client: 172.17.0.1, server: localhost, request: \"GET /404 HTTP/1.1\", host: \"172.17.0.2\""
    }
...
```