



MAY 20, 2023

DevOps Classroomnotes 20/May/2023

Fixing logstash issue with elastic cloud

- We had issue with pipeline id. removed the pipeline field
- restarted all the services and executing requests from a script
- so filebeat reads the logs and sends to logstash, logstash breaks the message into multiple fields and stores in elastic search with index name apache-log-*
- Now create a data view from kibana

The top screenshot shows the 'Create data view' dialog in Kibana. The 'Name' field is set to 'apache'. The 'Index pattern' field is set to 'apache-log-*'. The 'Timestamp field' is set to '@timestamp'. The 'Save data view to Kibana' button is highlighted. The bottom screenshot shows the 'apache' data view in Kibana. The 'Filter your data using KQL syntax' field is empty. The 'Break down by' dropdown is set to 'Last 15 minutes'. The '230 hits' are displayed as a bar chart.

- Watch the classroom video for visualizations
- We were able to search logs by writing simple queries and create pie charts, line charts, metric etc

Lets trace some java application

- Installing sample application
 - openjdk 11
 - sudo apt update
 - sudo apt install openjdk-11-jdk -y
 - download the jar file [Refer Here](#)

- Open APM

The screenshot shows the Elastic APM console interface. The top navigation bar includes 'Logs and metrics', 'Performance', 'Elasticsearch', 'Snapshots', 'API console', 'Kibana', 'Integrations Server', 'Enterprise Search', 'Activity', and 'Security'. The 'Features' section is expanded, showing 'Support' with 'APM' highlighted. The 'Deployment name' is 'learningenv'. The 'Applications' table lists 'Elasticsearch', 'Kibana', 'APM', 'Fleet', and 'Enterprise Search'. The 'APM' row has 'Copy endpoint', 'Copy cluster ID', and 'Copy component ID' links, with the 'Open' button highlighted. The 'Instances' section shows 'Health' and 'Instances' tabs. The 'Add data' button is highlighted in the 'Welcome to Elastic Observability!' section.

- Java app tracing

The screenshot shows the Elastic APM console interface. The top navigation bar includes 'Integrations' and 'APM'. The 'APM Agents' section is expanded, showing 'Download the APM agent' and 'Start your application with the javaagent flag'. The 'Download the APM agent' section includes instructions to download the agent jar from Maven Central. The 'Start your application with the javaagent flag' section includes instructions to add the -javaagent flag and configure the agent with system properties.

- Download apm-agent jar wget
<https://oss.sonatype.org/service/local/repositories/releases/content/co/elastic/apm-agent/1.38.0/elastic-apm-agent-1.38.0.jar>

- We have run the app with following args

```
java -javaagent:elastic-apm-agent-1.38.0.jar \
-Delastic.apm.service_name=pet-clinic \
-Delastic.apm.secret_token=uu0Dl9Q09RFFmdq86p \
-Delastic.apm.server_url=https://eff6e04ad9d6425fa3492b1a56f794a3.apm.us-central1.gcp.cloud.es.io:443 \
-Delastic.apm.environment=dev \
-Delastic.apm.application_packages=org.springframework \
-jar spring-petclinic-2.4.2.jar
```

- Use the application and launch apm

The screenshot shows the Elastic APM setup and monitoring interface. The top section displays the configuration for the APM agent, including the secret token, server URL, and environment. Below this, there is a code block showing the command to run the application with the APM agent. A green circle highlights the "Launch APM" button. The bottom section shows the APM monitoring dashboard, which includes a table of services and a line graph for latency.

Configuration:

- Elastic.apm.secret_token: uu0Dl9Q09RFFmdq86p
- Elastic.apm.server_url: https://eff6e04ad9d6425fa3492b1a56f794a3.apm.us-central1.gcp.cloud.es.io:443
- Elastic.apm.environment: my-environment

Command:

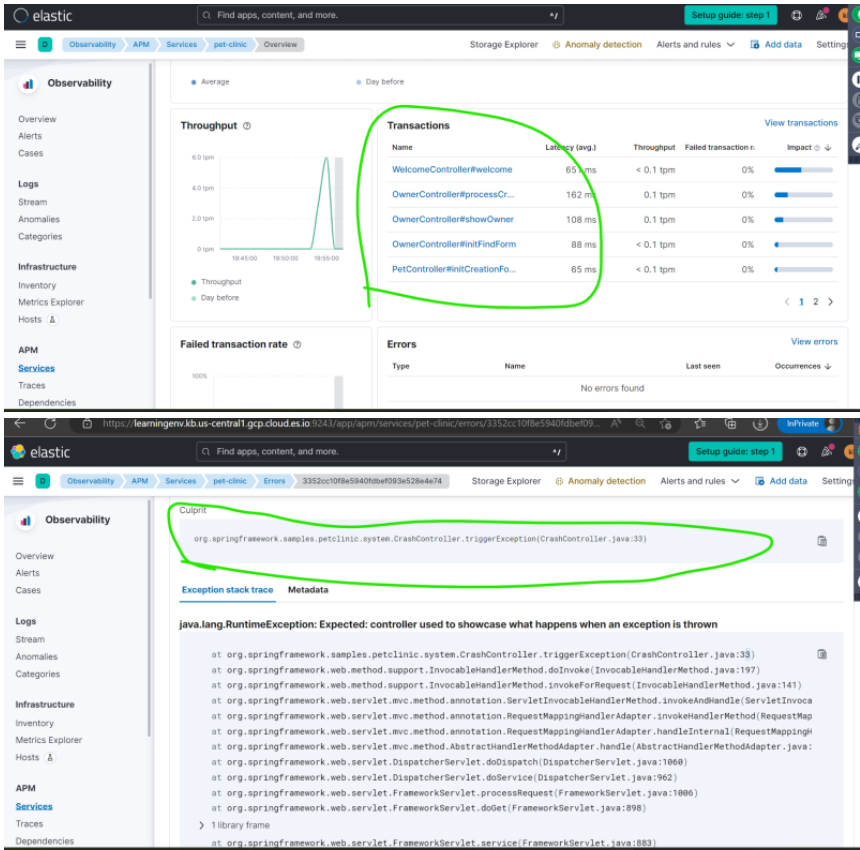
```
1 java -javaagent:/path/to/elastic-apm-agent-1.38.0.jar \
2 -Delastic.apm.service_name=pet-clinic \
3 -Delastic.apm.secret_token=uu0Dl9Q09RFFmdq86p \
4 -Delastic.apm.server_url=https://eff6e04ad9d6425fa3492b1a56f794a3.apm.us-central1.gcp.cloud.es.io:443 \
5 -Delastic.apm.environment=dev \
6 -Delastic.apm.application_packages=org.springframework \
7 -jar my-service-name.jar
```

Monitoring Dashboard:

The dashboard shows the following metrics for the "pet-clinic" service:

Name	Environment	Latency (avg.)	Throughput	Failed transaction rate
pet-clinic	dev	182 ms	0.5 tpm	0%

The latency graph shows a line representing the average latency over time, with a peak around 19:54:00.



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