## Application start up steps

Spring Cloud Config Server

Service Discovery Server – To register the Subscription service and Book Service

Subscription service and Book Service(Discovery Client, cloud config implementation , Load balancer, restTemplate to access the service registered in discovery register server). Authentication implemented in Subscription service.

Logs are written to log file to view the same in Kibana

APIGateway

Spring boot with JPA used to connect to Mysql server

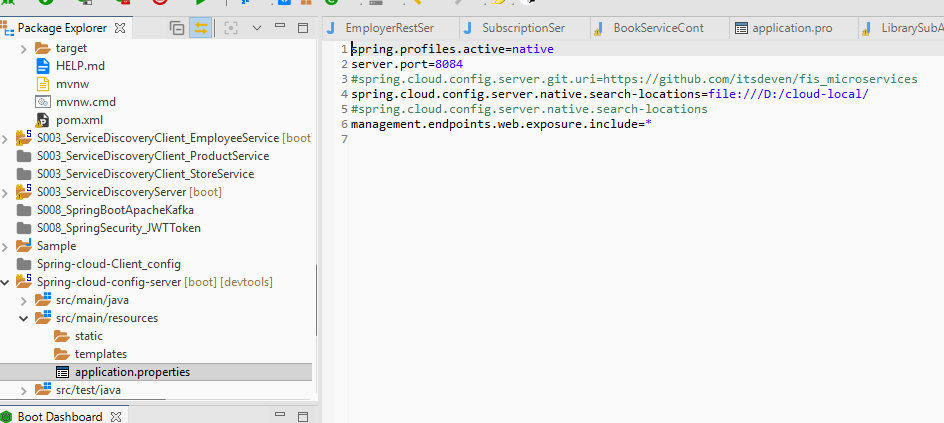
Logstash, Elastic Search and Kibana integration to view logs

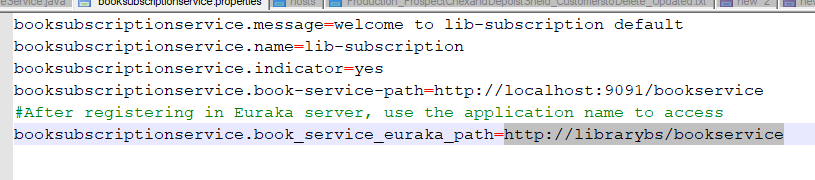
Urls

http://localhost:9092/bookSubService/getAllSubscriptions

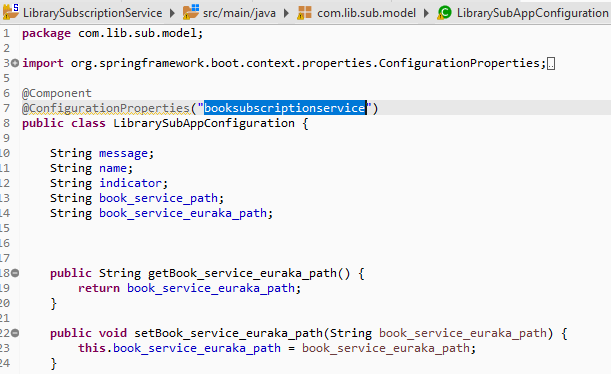
## Book Subscription

Using Spring Cloud config server, loaded the config files from local disk





Cloud Client – Loaded the config details



Euraka Server registry and Discovery Client

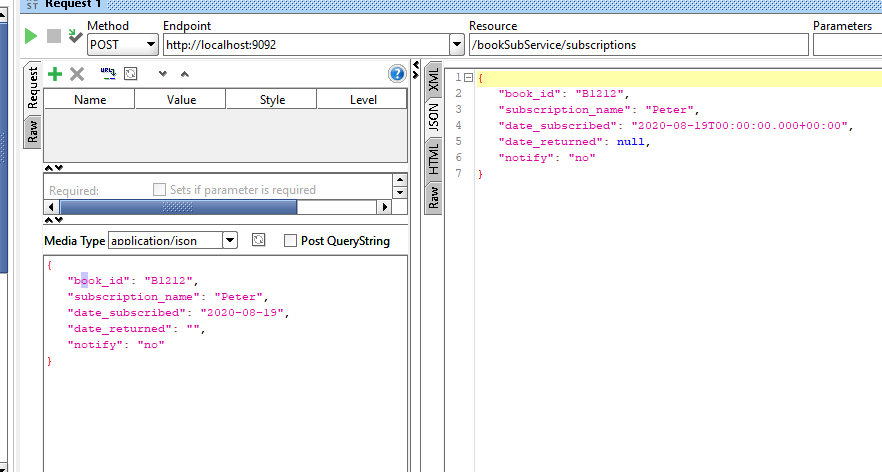
From Subscription Service(Discovery Client), called “BookService” (Discovery Client), via Euraka Server registry name.

**restTemplate/httpclient**

Also called the Book Service using restTemplate/httpclient



Ran transaction via SOAP UI

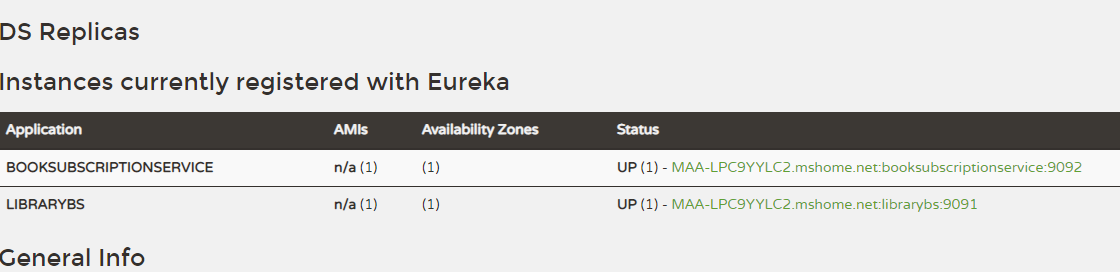


Log from Subscription Service

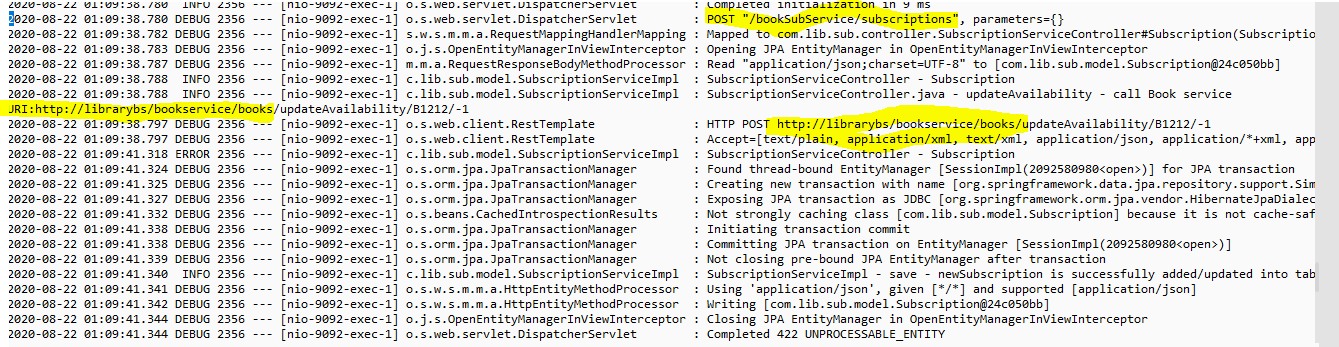
Referred the registry name in Eurake server

URI:http://**librarybs**/bookservice/books/updateAvailability/B1212/-1

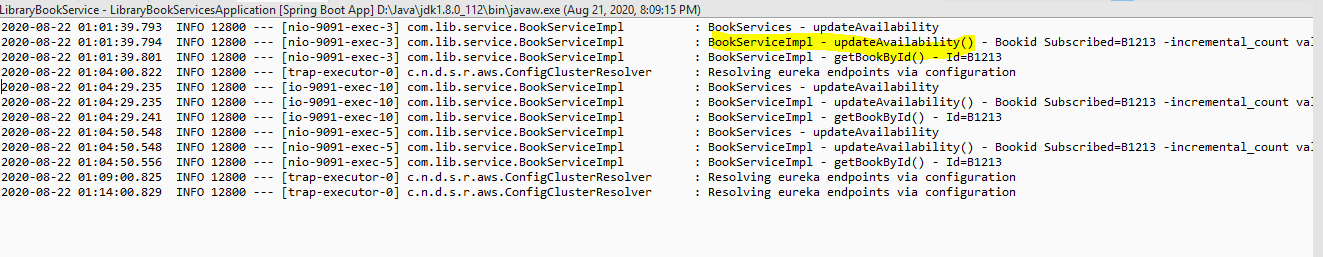
Registered server detail with Eureka



Logs in Subscription Service

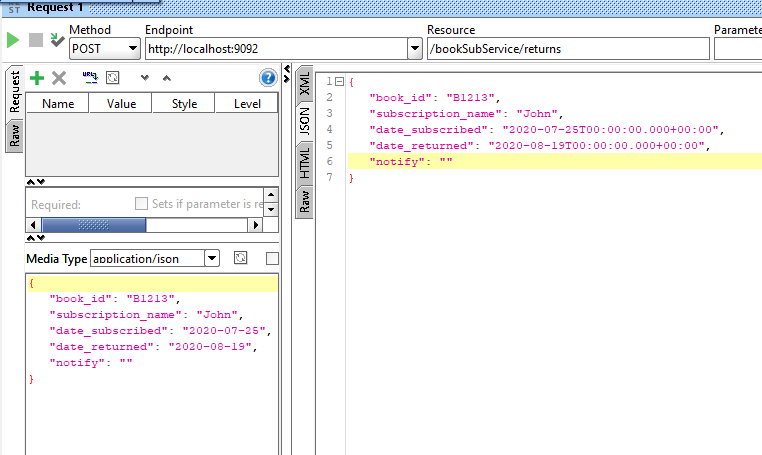


Logs from Book Service

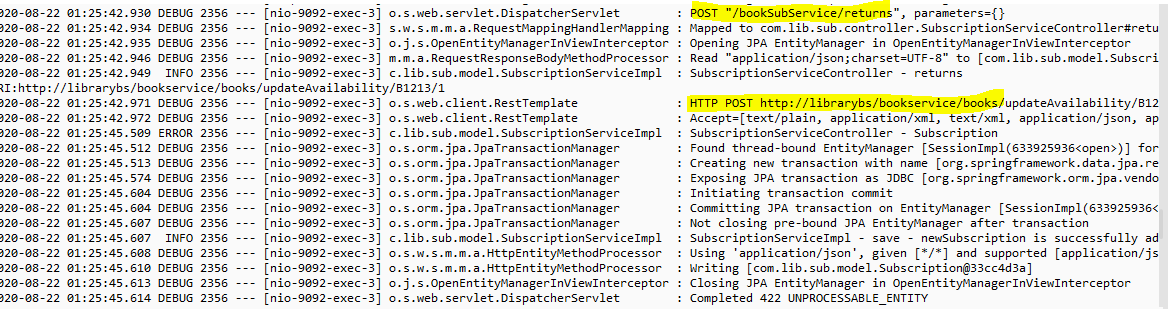


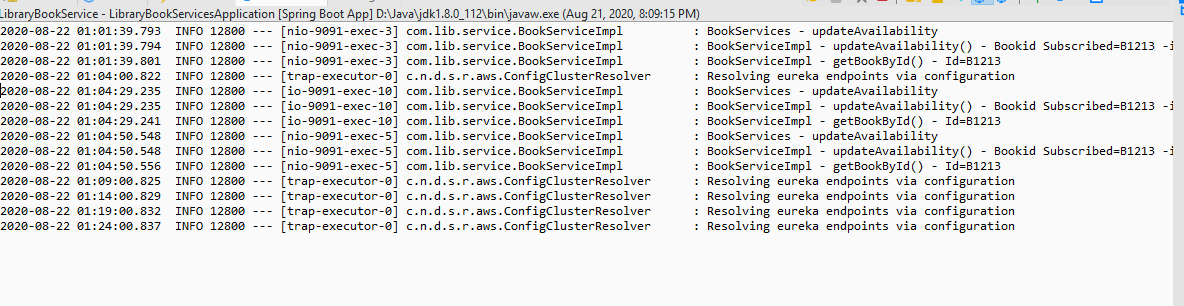
## Subscription Book Return

Follows the same Spring boot technology used in “Book Subscription”

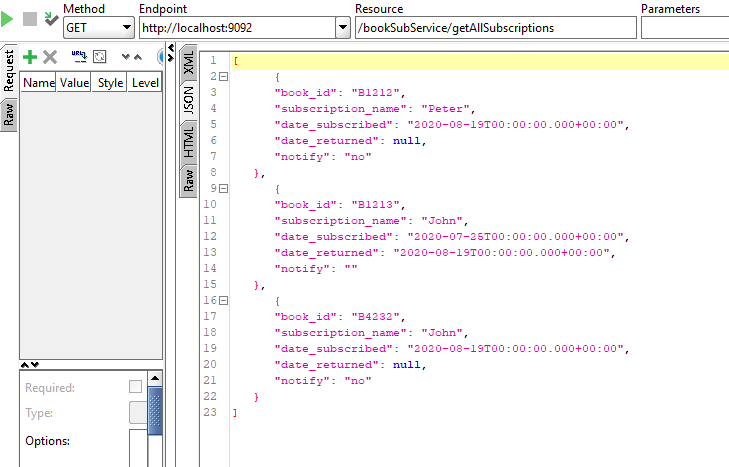


Used the registry server name to invoke Book service from Subscription Service.

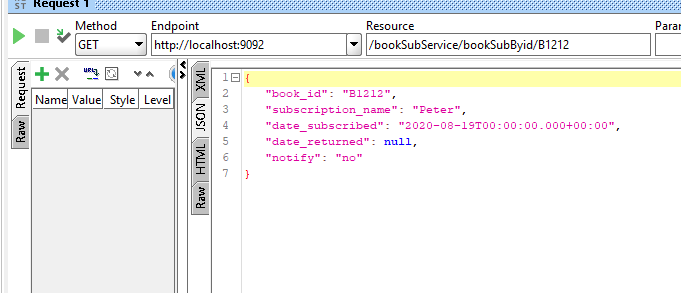




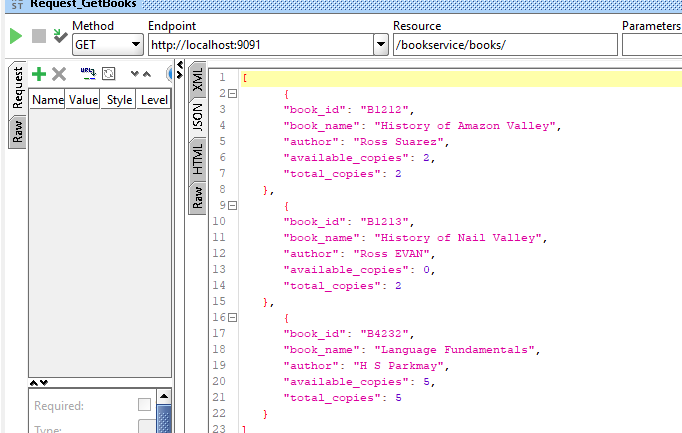
Get All Subscription



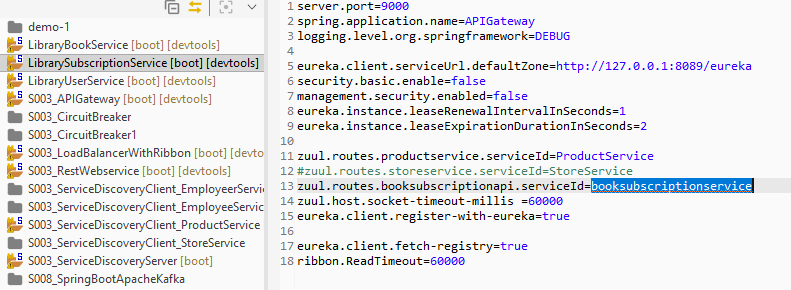
Get specific Subscription details

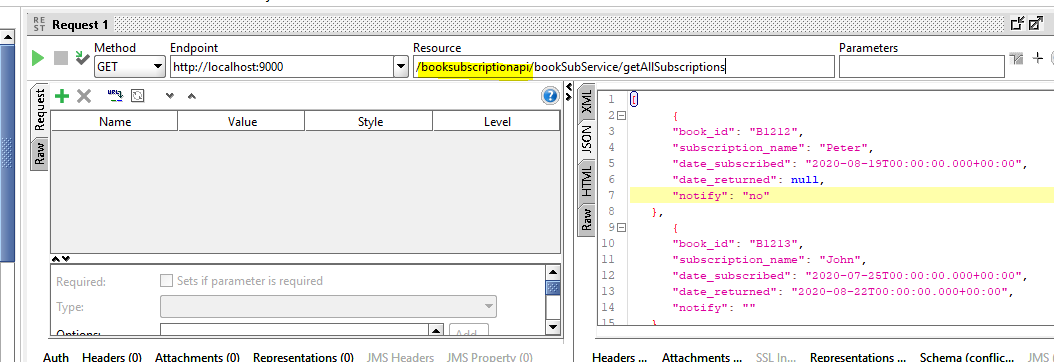


Get all books

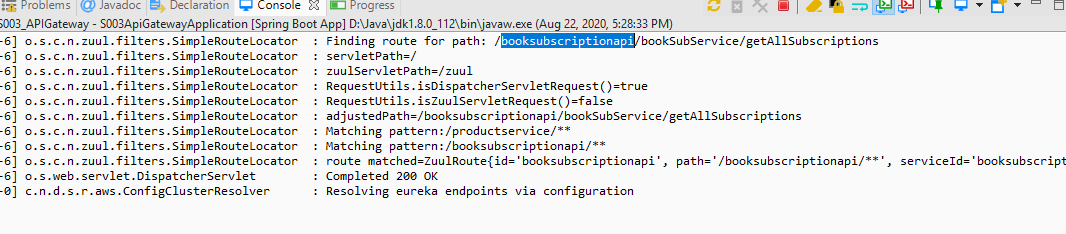


APIGateway- Access the service via APIGateway

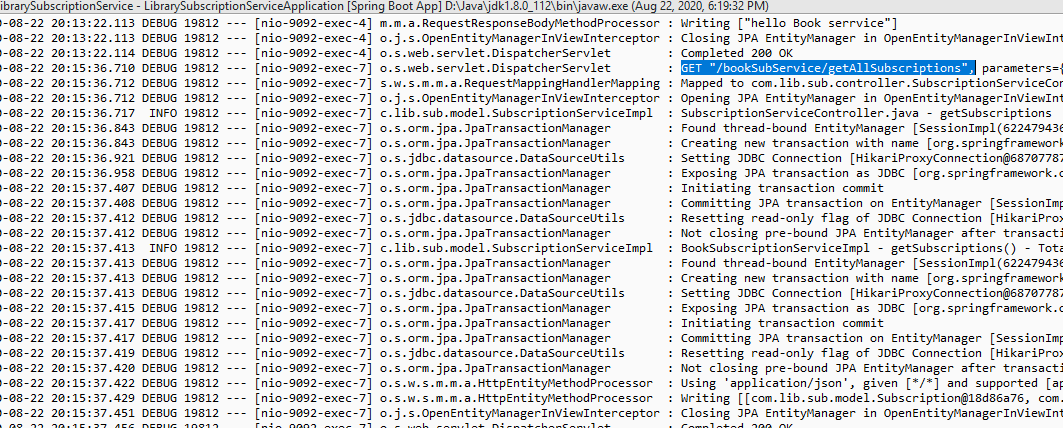




APIGateWay Logs

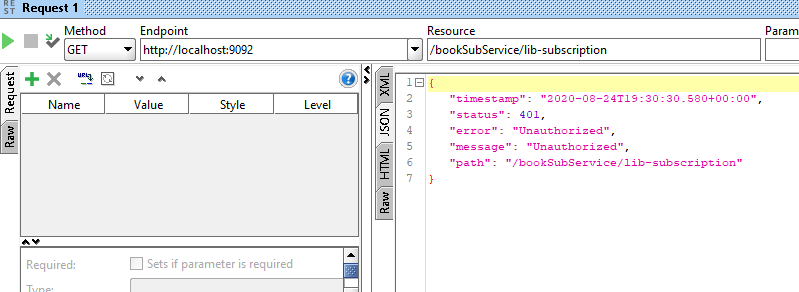


BookSubscriptionServiceLogs

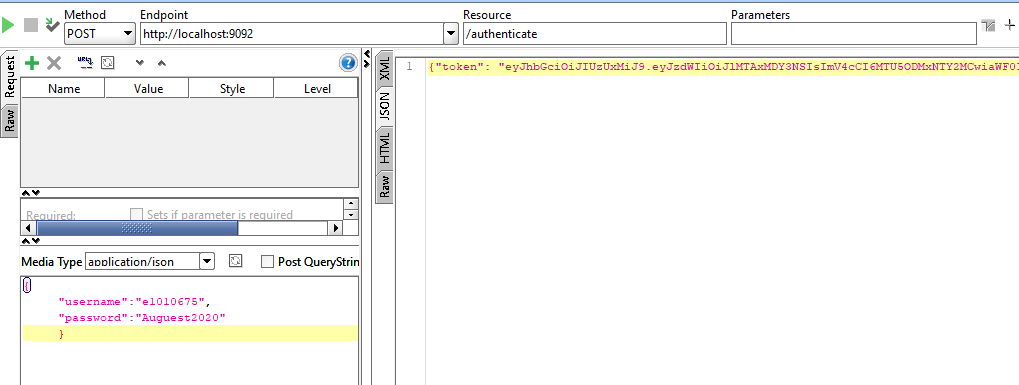


Authentication

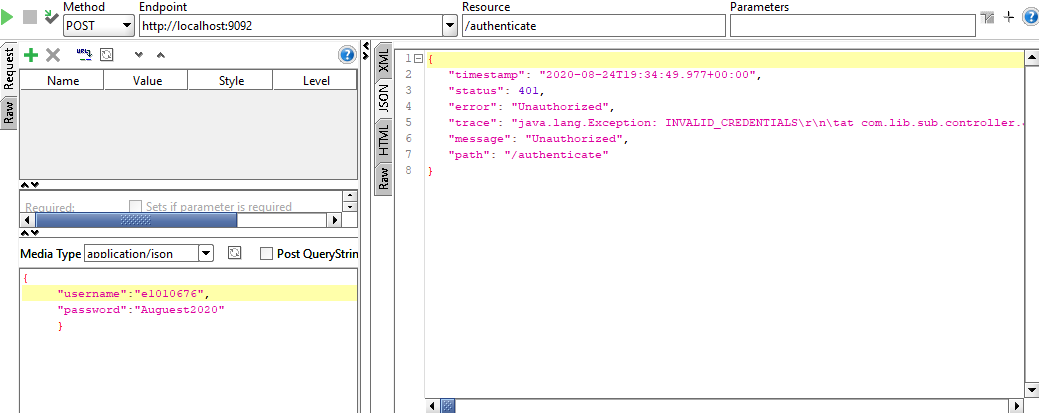
Authentication failed without token

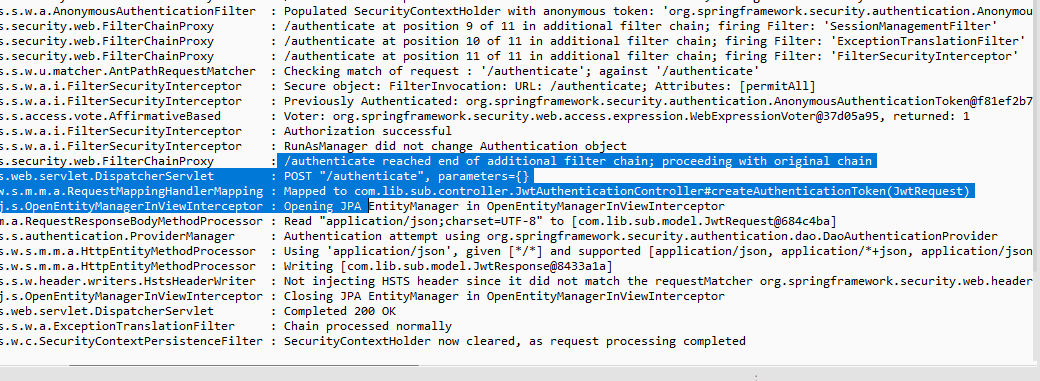


Valid Userid

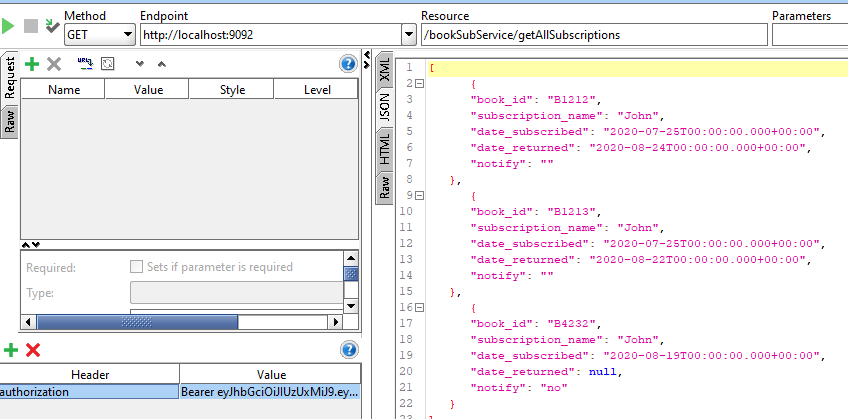


Invalid UserId

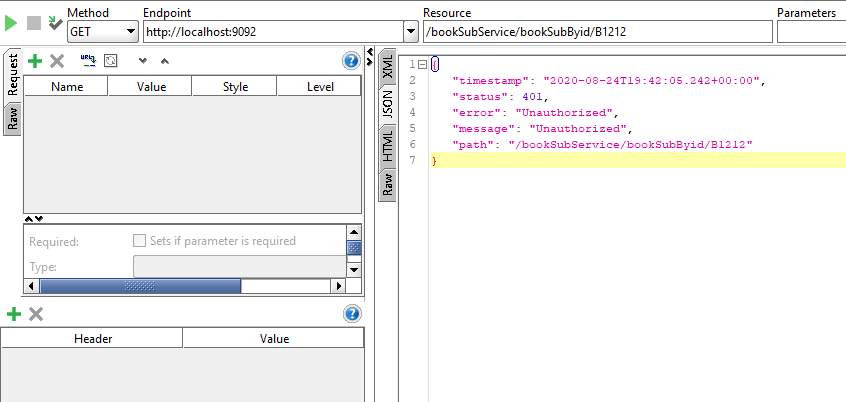




Using the Authorization token , called the rest service



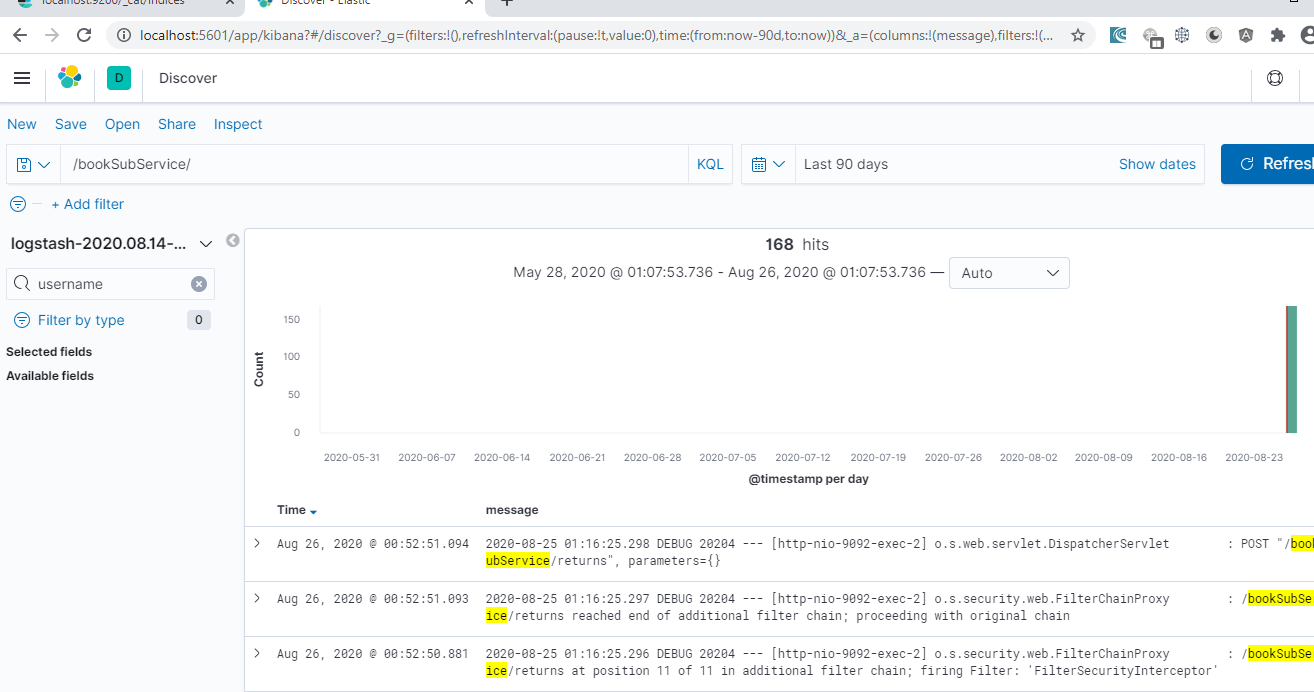
Without Authorization , got authentication failure messge



Authorization

Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiJlMTAxMDY3NSIsImV4cCI6MTU5ODMxNTc3NCwiaWF0IjoxNTk4Mjk3Nzc0fQ.Y3X84qpUONfLiHvRpmJTduVykZePaUbtTBkwtR-IOpIOGL5teK-jTfXhGE5qYbBQ8PHjHkiK-amrxSsPJ4OE7w

View logs in Kibana



Configured both logs in logstash to write the logs to elastic search