

# Creating an Elastic Cluster



JANUARY 2024 Abdulfatah Abdillahi

## Contents

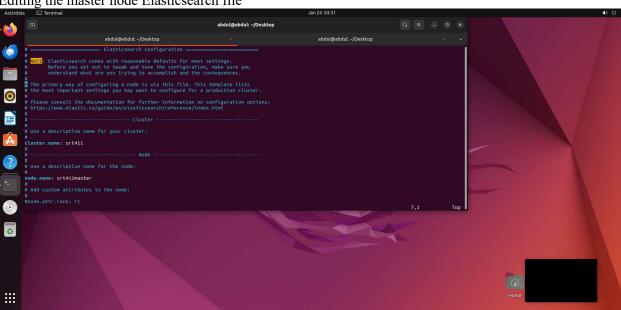
Task 1: create and test the cluster.
Task 2: Data Query
Task 3: Index Manager

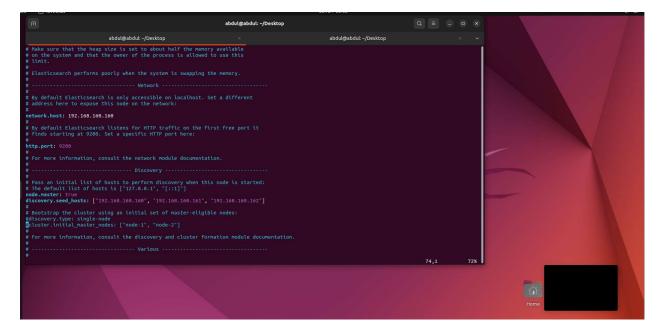
#### Introduction

In this lab report, we outline the process of preparing your machine for data analytics by installing and configuring a Linux server with the ELK stack. Objectives include setting up Elasticsearch with Apache logs ingested via Filebeat and exploring data visualizations in Kibana. The report serves as a guide for understanding and implementing these crucial steps in establishing a functional data analytics environment.

#### Task 1: create and test the cluster.

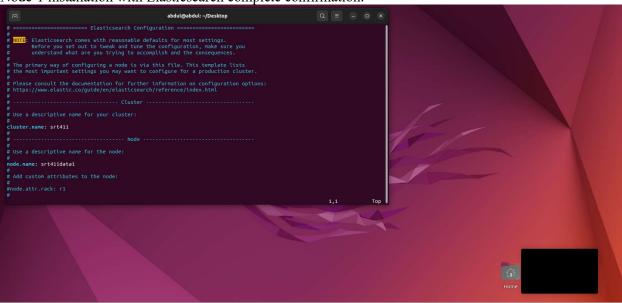
Editing the master node Elasticsearch file







Node-1 installation with Elasticsearch complete confirmation.



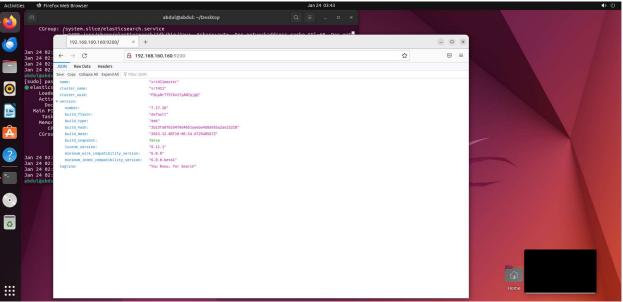




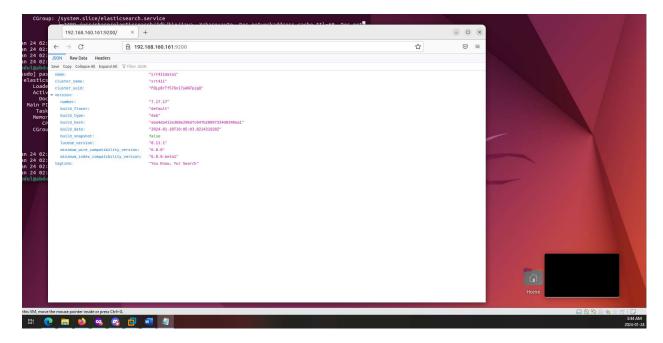
#### Node-2 installation with Elasticsearch confirmation



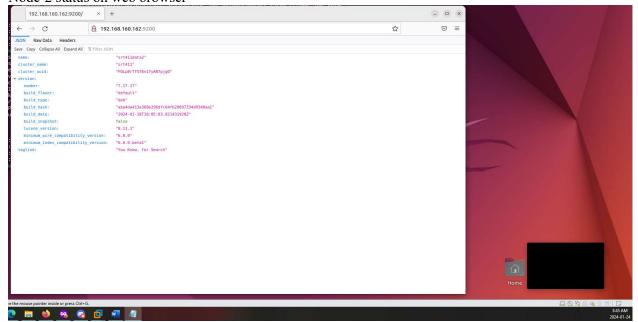
Master node on a web browser.



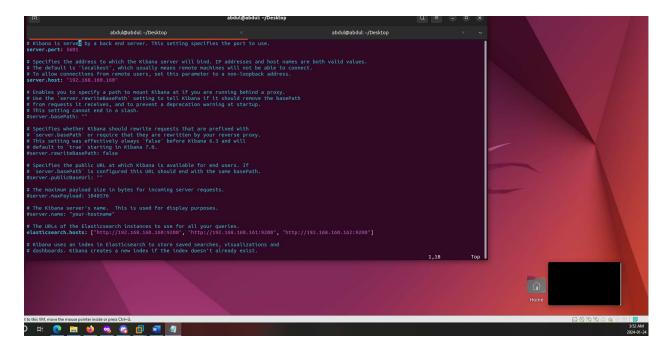
Node-1 status on web browser



#### Node-2 status on web browser



Editing Kibana Configuration File

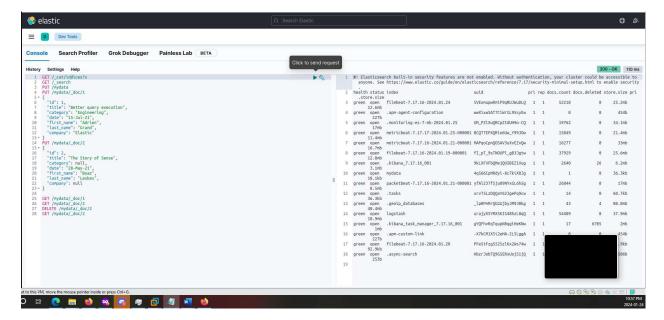


Kibana status after editing the configuration.

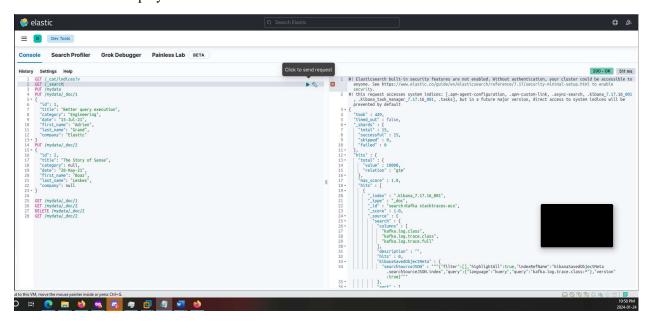
```
Active: active (running) since Wed 2024-01-24 02:05:41 EST; 1h 47min ago
Docs: https://www.elstics.com
Docs: https://www.elstic.co
CFO: lamin 42.3065
Docs: https://www.elstic.co
Docs: https://www.
```

### Task 2: Data Query

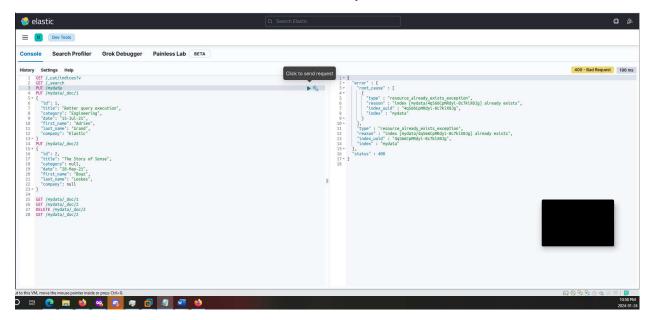
1. Write the command to query how many indices are there in the cluster and what are their names?



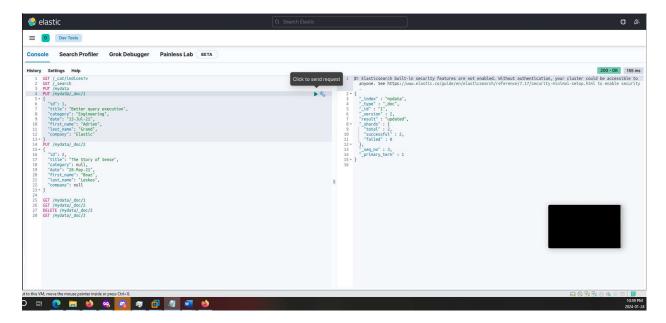
2. Write the command to query all documents in all indices of your cluster. By default, only the first 10 rows will be displayed.



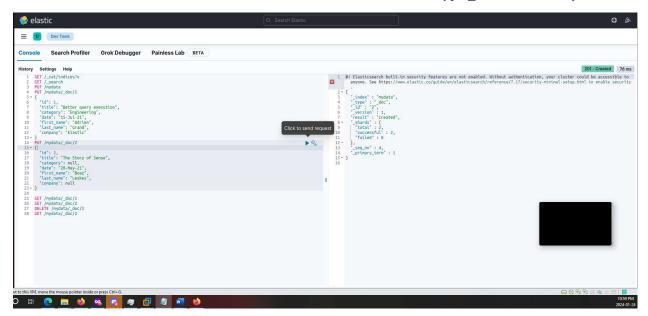
3. Write the command to create a new index named "mydata".



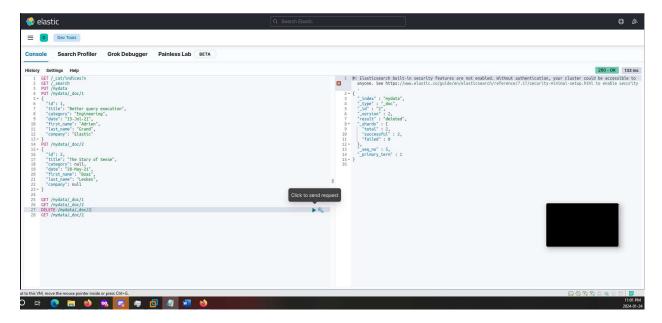
4. Write the command to add the following two documents in the index called "mydata" one by one. Use \_doc for the type and their respective ids. You have to provide ids while putting the data in Elasticsearch. Look for PUT and POST commands and should be able to identify the difference and pick the right command for this step.



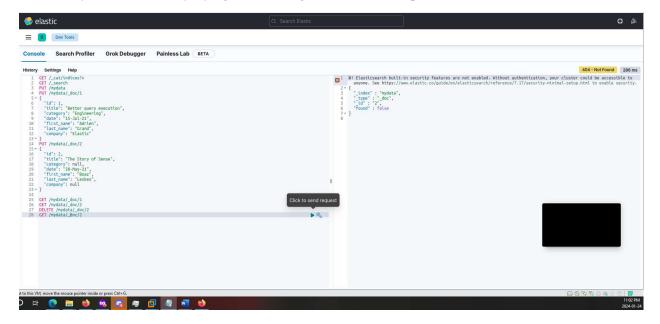
5. Write the GET command to retrieve the document with id of 1 and type \_doc from the "myData" index.



6. Write the command to delete the document with id 2 from the "myData" index



7. Verify it was deleted by trying to GET it again, record the response.



Task 3: Index Manager

