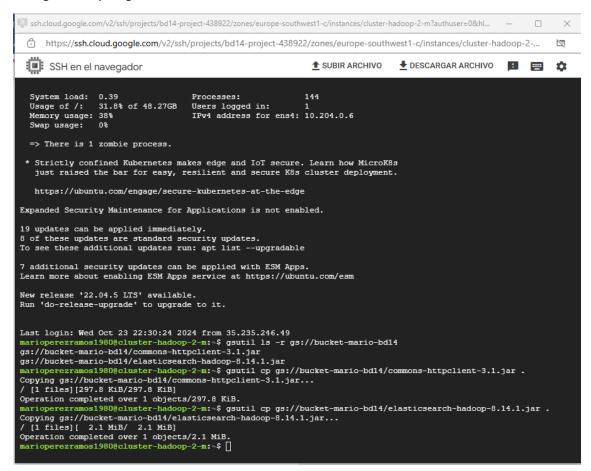
PRÁCTICA ARQUITECTURA

PARTE 1: Captura de pantalla de la consola SSH del cluster Hadoop una vez finalizada la configuración y carga.



PARTE 2: Captura de pantalla de la consola del server Elastic donde se ve la configuración de elastic, desde 'Enable security features' hasta el final (el fichero elasticsearch.yml) abierta.

```
-- BEGIN SECURITY AUTO CONFIGURATION -
 The following settings, TLS certificates, and keys have been automatically generated to configure Elasticsearch security features on 28-10-2024 22:05:10
# Enable security features
xpack.security.enabled: false
xpack.security.enrollment.enabled: true
# Enable encryption for HTTP API client connections, such as Kibana, Logstash, and Agents
xpack.security.http.ssl:
  enabled: false
  keystore.path: certs/http.p12
# Enable encryption and mutual authentication between cluster nodes
xpack.security.transport.ssl:
  enabled: true
  keystore.path: certs/transport.p12
  truststore.path: certs/transport.p12
  Create a new cluster with the current node only
# Additional nodes can still join the cluster later
cluster.initial_master_nodes: ["instance-elasticserch"]
# Allow HTTP API connections from anywhere
  Connections are encrypted and require user authentication
http.host: 0.0.0.0
# Allow other nodes to join the cluster from anywhere
# Connections are encrypted and mutually authenticated
#transport.host: 0.0.0.0
```

Comprobación para asegurar que el cluster Hadoop con Hive tiene acceso al server de Elastic, desde la máquina del cluster Hadoop:

```
Last login: Tue Oct 29 08:37:44 2024 from 35.235.246.48

marioperezramos1980@cluster-elastic-2-m:~$ curl -I http://34.175.57.137:9200

HTTP/1.1 200 OK

X-elastic-product: Elasticsearch
content-type: application/json
content-length: 546
```

PARTE 3 - Configuración en Cluster Hadoop de Conexión con ES

PARTE 4: Captura de pantalla de la consola del cluster Hadoop con el resultado la consulta.

```
marioperezramos1980@cluster-elastic-2-m:~$ curl -X GET "http://34.175.57.137:9200/alumnos/_search?pretty"
     "took" : 60,
"timed_out" : false,
      "_shards" : {
          "total" : 1,
"successful" : 1,
          "skipped": 0,
"failed": 0
     },
"hits" : {
           "total" : {
    "value" : 6,
    "relation" : "eq"
          },
"max_score" : 1.0,
"hits" : [
                   "_index" : "alumnos",

"_id" : "6",

"_score" : 1.0,

"_source" : {

"title" : "New Document",

"content" : "This is a new document for the master class",

"tag" : [

"general",

"testing"
                           "generar
"testing"
                   "_index": "alumnos",
"_id": "3",
"_score": 1.0,
"_source": {
    "id": 3,
    "name": "Carlos",
    "last_name": "González"
                 "_index": "alumnos",
" id": "4",
"_score": 1.0,
" source": {
    "id": 4,
    "name": "Maria",
    "last_name": "López"
                "_index": "alumnos",
    "_id": "5",
    "_score": 1.0,
    "_source": {
        "id": 5,
        "name": "Luis",
        "last_name": "Martinez"
}
            }
},
{
   "_index" : "alumnos",
   " id" : "7",
   "_score" : 1.0,
   " source" : {
      "id" : 7,
      "name" : "Sofia",
      "last_name" : "Ramirez"
}
           },'
{
    "_index" : "alumnos",
    "_id" : "8",
                 "_score" : 1.0,

"_source" : {
    "id" : 8,
    "name" : "Pedro",
    "last_name" : "Hernández"
marioperezramos1980@cluster-elastic-2-m:~$
```

ENTREGABLE 5: Opcional. Captura de pantalla de la consola de Kibana con alguna visualización sencilla.

En este último caso he utilizado la obra de Shakespeare de clases anteriores, para tener mas contenido para hacer visualizaciones.

Este gráfico muestra la frecuencia de diálogo de los personajes en la obra Anthony and Cleopatra, destacando a los diez personajes principales por el número total de líneas que tienen. Permitiendo identificar rápidamente qué personajes tienen mayor protagonismo en términos de diálogo.

