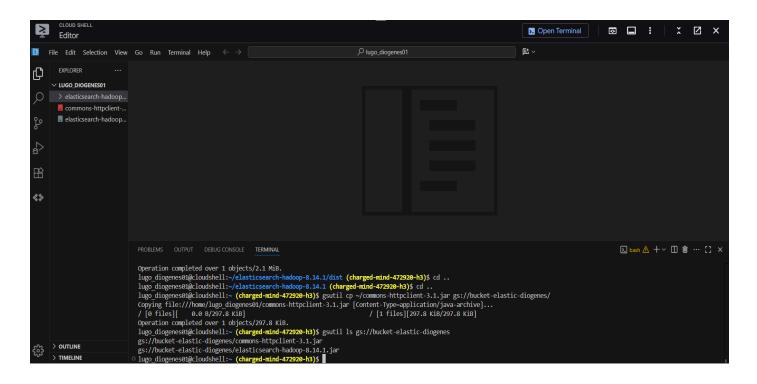
#1 jars_subidos_al_bucket



#2 firewall_config

```
ugo_diogenes01@elastic-server:~$ cat ~/elasticsearch_security_config.txt
         ----- BEGIN SECURITY AUTO CONFIGURATION -
 The following settings, TLS certificates, and keys have been automatically
 generated to configure Elasticsearch security features on 16-10-2025 14:54:30
 Enable security features
xpack.security.enabled: false
xpack.security.enrollment.enabled: false
# Enable encryption for HTTP API client connections, such as Kibana, Logstash, and Agents
xpack.security.http.ssl:
 enabled: true
 keystore.path: certs/http.p12
# Enable encryption and mutual authentication between cluster nodes
xpack.security.transport.ssl:
 enabled: true
 verification_mode: certificate
 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: ["elastic-server"]
# 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
         ----- END SECURITY AUTO CONFIGURATION -----
lugo_diogenes01@elastic-server:~$
```

#3 hive_config

```
lugo diogenes01@es-hadoop-cluster-m:~$ # JARs instalados
echo "=== JARs instalados en Hive ===
=== JARs instalados en Hive ===
lugo diogenes01@es-hadoop-cluster-m:~$ # Propiedades añadidas
echo "=== Configuración de hive-site.xml ==="
tail -n 20 /etc/hive/conf.dist/hive-site.xml
=== Configuración de hive-site.xml ===
 cproperty>
   <name>es.nodes</name>
   <value>35.187.91.93
 </property>
 cproperty>
   <name>es.port</name>
   <value>9200</value>
 </property>
 cproperty>
   <name>es.nodes.wan.only</name>
    <value>true</value>
 </property>
 property>
   <name>hive.aux.jars.path</name>
    <\!\!\!\text{value}/\text{usr/lib/hive/lib/commons-httpclient-3.1.jar}/\text{usr/lib/hive/lib/commons-httpclient-3.1.jar}/\text{value}>
 </property>
</configuration>
lugo_diogenes01@es-hadoop-cluster-m:~$ # Reinicio y aplicación de cambios
echo""
echo "=== Reiniciando Hive Metastore ==="
sudo systemctl restart hive-metastore
=== Reiniciando Hive Metastore ===
lugo_diogenes01@es-hadoop-cluster-m:~$
```

#4.1 hadoop_data_ingestion_part_one

```
ugo diogenes01@es-hadoop-cluster-m:~$ curl -X GET "http://35.187.91.93:9200/alumnos/ search?pretty'
 "took" : 262,
 "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",
       "content" : "This is a new document for the master class",
           "tag" : [
            "general",
"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" : "María",
          "last_name" : "López"
        " index" : "alumnos",
       "_id" : "5",
       "_score" : 1.0,
       "_source" : {
          "id" : 5,
          "name" : "Luis",
          "last_name" : "Martínez"
       " index" : "alumnos",
       "_id" : "7",
       "_score" : 1.0,
       "source": {
          "id" : 7,
          "name" : "Sofía",
          "last_name" : "Ramírez"
       "_index" : "alumnos",
       "id": "8",
       "_score" : 1.0,
         source" : {
          "id" : 8,
         "name" : "Pedro",
          "last_name" : "Hernández"
lugo diogenes01@es-hadoop-cluster-m:~$
```

#5 hive_config

