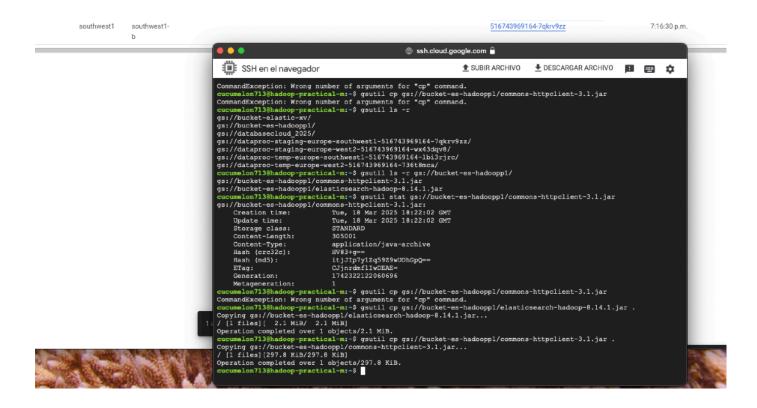
# PART 1 - Configuration ElasticSearch-Hadoop (ES-Hadoop)

Screenshot of SSH terminal from Hadoop cluster after Hadoop has been configured with elasticsearch-hadoop and commons-httpclient.



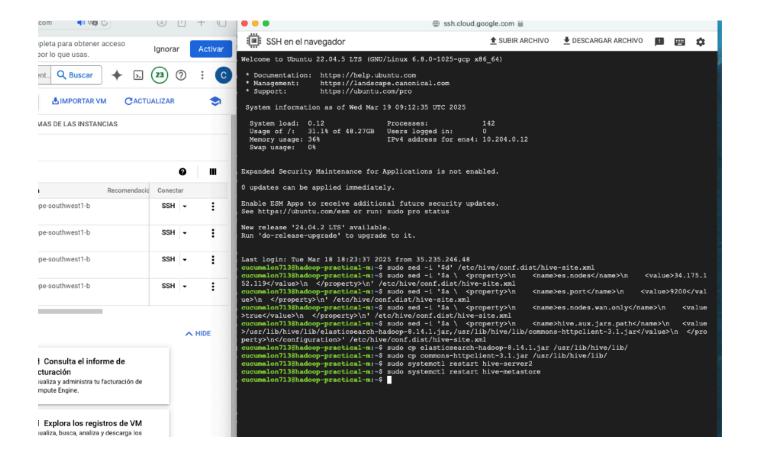
### PART 2 - Configuration of ElasticSearch server

Screenshot of SSH terminal from ElasticSearch Instance where ElasticSearch has been configured.

```
. . .
                                                                     SSH en el navegador
                                                                                         tstrap the cluster using an initial set of master-eligible nodes:
           r.initial_master_nodes: ["node-1", "node-2"]
For more information, consult the discovery and cluster formation module documentation.
Allow wildcard deletion of indices:
,
∮action.destructive requires name: false
                        ----- BEGIN SECURITY AUTO CONFIGURATION -
  The following settings, TLS certificates, and keys have been automatically generated to configure Elasticsearch security features on 19-03-2025 08:55:47
# 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.pl2
† Enable encryption and mutual authentication between cluster nodes
xpack.security.transport.ssl:
enabled: true
verification_mode: certificate
keystore.path: certs/transport.pl2
truststore.path: certs/transport.pl2
† Create a new cluster with the current node only
† Additional nodes can still join the cluster later
cluster.initial_master_nodes: ["vm-elastics-pl"]
# Allow HTTF 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
```

### PART 3 - Configuration in cluster Hadoop of connection with ES.

Screenshot of SSH terminal from Hadoop cluster to connect ES server with Hive.



# **PART 4 - Connecting Data**

melon713@hadoop-practical-m:~\$

Screenshot of the Hadoop cluster console with the query result.

```
⊕ ssh.cloud.google.com 

□

                                                                                                                                                           SSH en el navegador
         alon713@hadoop-practical-m:-$ curl -X GET "http://34.175.152.119:9200/alumnos/_search?pretty"
           "index": "alumnos",
"_id": "3",
"_acore": 1.0,
"aoures": {
   "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": "s",
"source": 1.0,
"source": {
   "id": 5,
   "name": "Luis",
   "last_name": "Martinez"
}
            "_index" : "alumnos",
"_id" : "7",
"_score" : 1.0,
      "index": "alumnos",
"_id": "7",
"_acore": 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"
}
```

# **PART 5 - KIBANA**

Screenshot of the Kibana console with a simple visualisation.

