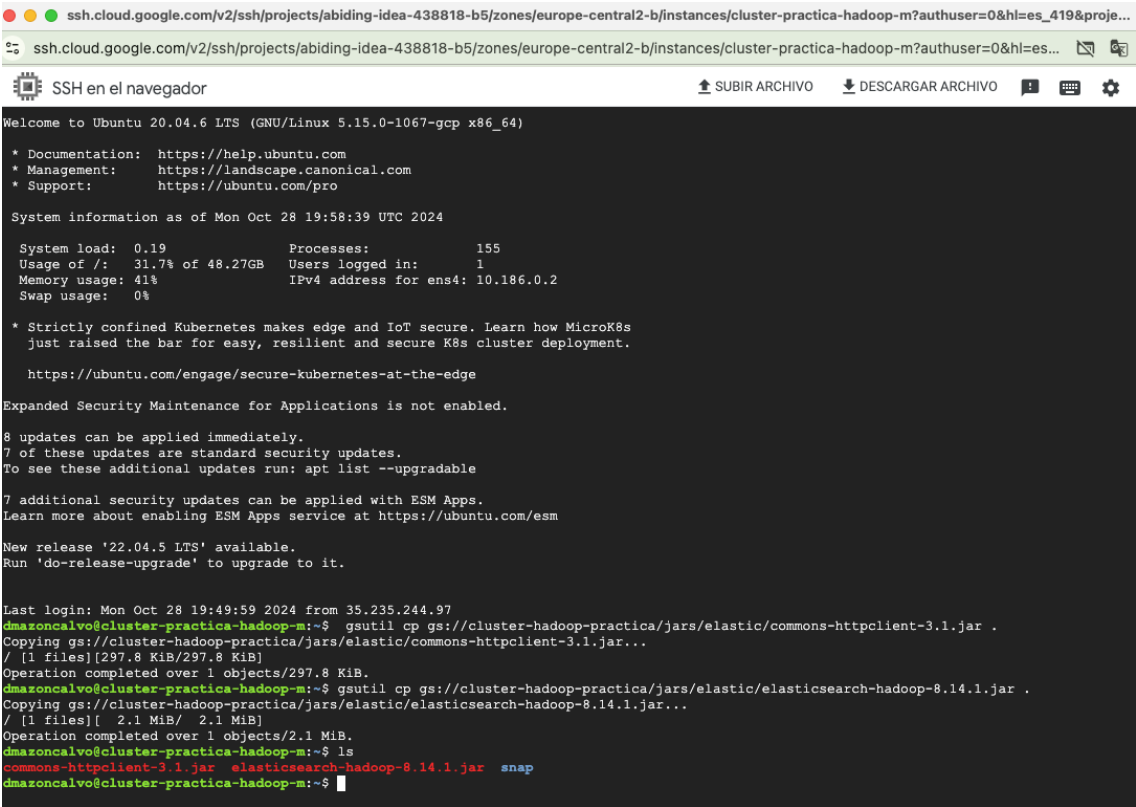


PRÁCTICA\_ElasticSearch

Alumno Daniel Mazón Calvo

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



Te paso un pantallazo del cluster

cluster-hadoop-practica

Ubicación

europa-central2 (Varsovia)

Clase de almacenamiento

Standard

Acceso público

No público

Protección

Borrar de forma no definitiva

OBJETOS

CONFIGURACIÓNPERMISOSPROTECCIÓNCICLO DE VIDAobservabilidadinformes de inventarioOPERACIONES

Depósitos > cluster-hadoop-practica > jars > elastic

CREAR CARPETA

SUBIR

TRANSFERIR LOS DATOS

OTROS SERVICIOS

Filtrar solo por prefijo de nombre

Filtro

Filtrar objetos y carpetas

Mostrar Solo objetos

| <input type="checkbox"/> | Nombre                          | Tamaño   | Tipo                     | Fecha de creación    | Clase de almacenamiento | Última modificación  | Acceso público |
|--------------------------|---------------------------------|----------|--------------------------|----------------------|-------------------------|----------------------|----------------|
| <input type="checkbox"/> | commons-httpclient-3.1.jar      | 297.9 KB | application/java-archive | 28 oct 2024 20:58:10 | Standard                | 28 oct 2024 20:58:10 | No público     |
| <input type="checkbox"/> | elasticsearch-hadoop-8.14.1.jar | 2.1 MB   | application/java-archive | 28 oct 2024 20:57:56 | Standard                | 28 oct 2024 20:57:56 | No público     |

## Un pantallazo de cluster

The firewall rules for specified network or subnet would allow ingress traffic from 0.0.0.0/0, which could be a security risk.

Nombre

cluster-practica-hadoop

UUID del clúster

c25e5fbc-a945-43fe-bd0e-fb00249d30ba

Tipo

Clúster de Dataproc

Estado

✓

En ejecución

SUPERVISIÓN

TRABAJOS

INSTANCIAS DE VM

CONFIGURACIÓN

INTERFACES WEB

Filtro

Filtrar instancias

Nombre

Rol

✓

[cluster-practica-hadoop-m](#)

Instancia principal

✓

[cluster-practica-hadoop-w-0](#)

Trabajador

✓

[cluster-practica-hadoop-w-1](#)

Trabajador

**ENTREGABLE PARTE 2:** Captura de pantalla de la consola del server Elastic donde se vea la configuración de elastic, desde 'Enable security features' hasta el final (el fichero elasticsearch.yml) abierta.(Recordad: Comando sudo cat...)

## Fichero de configuración elasticsearch.yml

ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/vm-elastic-practiva?auths...

ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/vm-elastic-practiva?...

SSH en el navegador

SUBIR ARCHIVO

DESCARGAR ARCHIVO

```
#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 28-10-2024 20:26:53
#
# -----

# 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

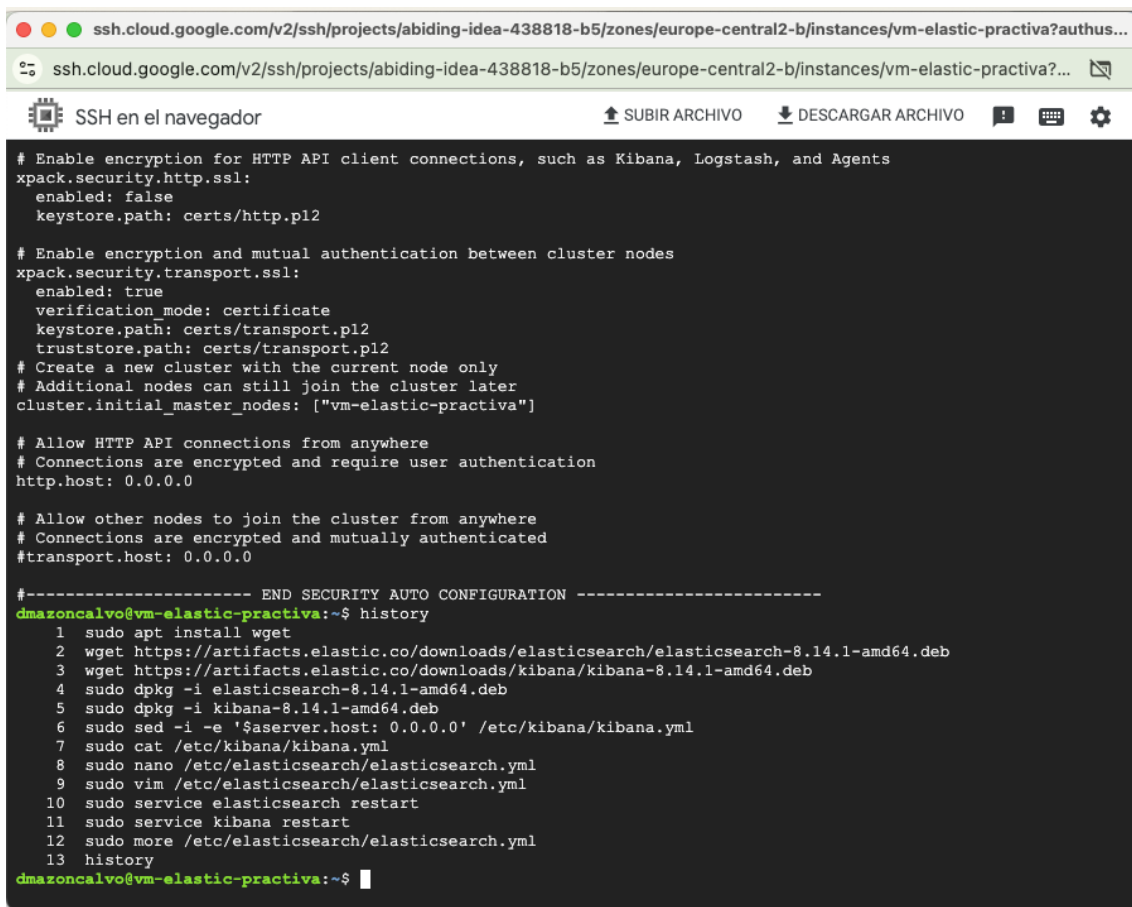
# Enable encryption and mutual authentication between cluster nodes
xpack.security.transport.ssl:
  enabled: true
  verification mode: certificate
  keystore.path: certs/transport.p12
  truststore.path: certs/transport.p12
# Create a new cluster with the current node only
# Additional nodes can still join the cluster later
cluster.initial_master_nodes: ["vm-elastic-practiva"]

# 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 -----
dmazoncalvo@vm-elastic-practiva:~$
```

Te paso todos los comandos que ha lanzado



```
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/vm-elastic-practiva?auths...
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/vm-elastic-practiva?...
SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO
# 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
  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: ["vm-elastic-practiva"]

# 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 -----
dmazoncalvo@vm-elastic-practiva:~$ history
 1 sudo apt install wget
 2 wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-8.14.1-amd64.deb
 3 wget https://artifacts.elastic.co/downloads/kibana/kibana-8.14.1-amd64.deb
 4 sudo dpkg -i elasticsearch-8.14.1-amd64.deb
 5 sudo dpkg -i kibana-8.14.1-amd64.deb
 6 sudo sed -i -e '$aserver.host: 0.0.0.0' /etc/kibana/kibana.yml
 7 sudo cat /etc/kibana/kibana.yml
 8 sudo nano /etc/elasticsearch/elasticsearch.yml
 9 sudo vim /etc/elasticsearch/elasticsearch.yml
10 sudo service elasticsearch restart
11 sudo service kibana restart
12 sudo more /etc/elasticsearch/elasticsearch.yml
13 history
dmazoncalvo@vm-elastic-practiva:~$
```

Comprobación desde el cluster

curl -I http://IP\_Elastic\_server:9200

curl -I <http://34.118.73.187:9200>

```
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&hl=es_419&proje...
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&hl=es...
SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO

System information as of Mon Oct 28 19:58:39 UTC 2024

System load: 0.19          Processes:           155
Usage of /:   31.7% of 48.27GB    Users logged in:   1
Memory usage: 41%              IPv4 address for ens4: 10.186.0.2
Swap usage:   0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

8 updates can be applied immediately.
7 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

7 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

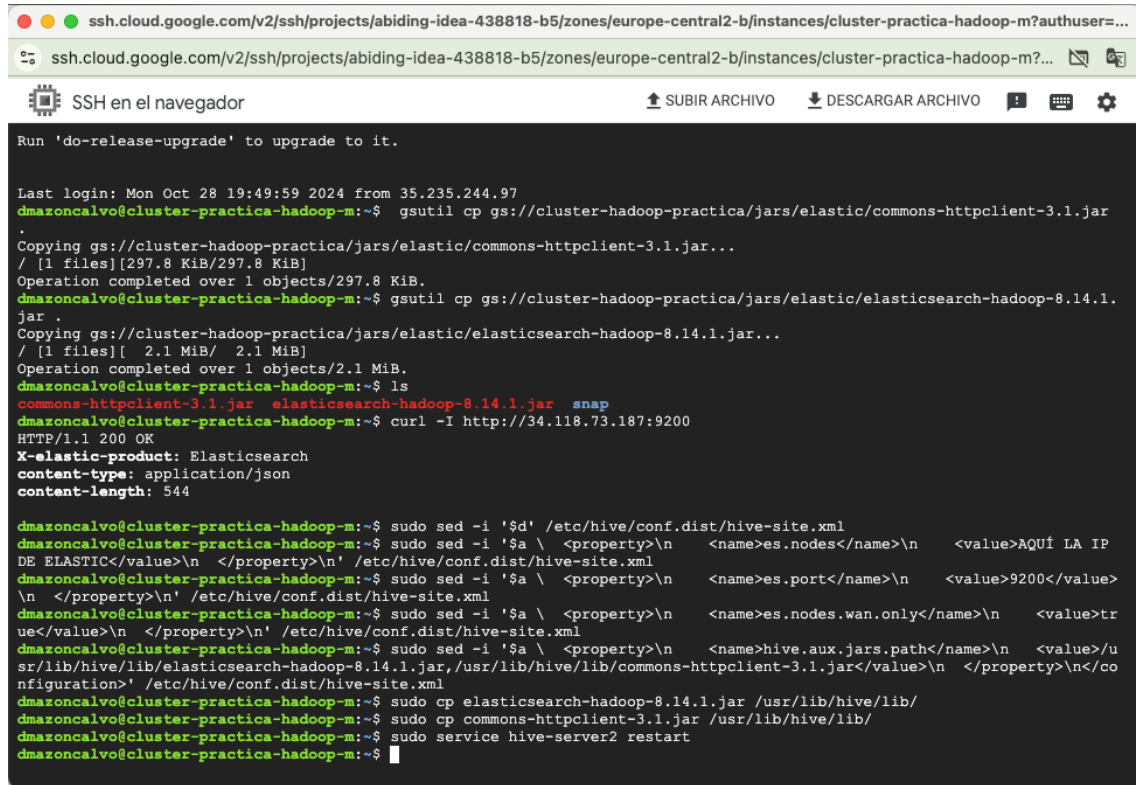
New release '22.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Oct 28 19:49:59 2024 from 35.235.244.97
amazoncalvo@cluster-practica-hadoop-m:~$ gsutil cp gs://cluster-hadoop-practica/jars/elastic/commons-httpclient-3.1.jar .
Copying gs://cluster-hadoop-practica/jars/elastic/commons-httpclient-3.1.jar...
/ [1 files][297.8 KiB/297.8 KiB]
Operation completed over 1 objects/297.8 KiB.
amazoncalvo@cluster-practica-hadoop-m:~$ gsutil cp gs://cluster-hadoop-practica/jars/elastic/elasticsearch-hadoop-8.14.1.jar .
Copying gs://cluster-hadoop-practica/jars/elastic/elasticsearch-hadoop-8.14.1.jar...
/ [1 files][ 2.1 MiB/ 2.1 MiB]
Operation completed over 1 objects/2.1 MiB.
amazoncalvo@cluster-practica-hadoop-m:~$ ls
commons-httpclient-3.1.jar  elasticsearch-hadoop-8.14.1.jar  snap
amazoncalvo@cluster-practica-hadoop-m:~$ curl -I http://34.118.73.187:9200
HTTP/1.1 200 OK
X-elastic-product: Elasticsearch
content-type: application/json
content-length: 544
amazoncalvo@cluster-practica-hadoop-m:~$
```

## Comprobación desde mi navegador

```
34.118.73.187:9200 x +
No es seguro 34.118.73.187:9200 Finalizar actualización
Dar formato al texto
{
  "name" : "vm-elastic-practica",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "kw5VZ3T9T0SFNiTJtfzZrw",
  "version" : {
    "number" : "8.14.1",
    "build_flavor" : "default",
    "build_type" : "deb",
    "build_hash" : "93a57a1a76f556d8aee6a90d1a95b06187501310",
    "build_date" : "2024-06-10T23:35:17.114581191Z",
    "build_snapshot" : false,
    "lucene_version" : "9.10.0",
    "minimum_wire_compatibility_version" : "7.17.0",
    "minimum_index_compatibility_version" : "7.0.0"
  },
  "tagline" : "You Know, for Search"
}
```

### ENTREGABLE PARTE 3: Captura de pantalla del proceso de configuración en Cluster Hadoop de Conexión con ES completo.

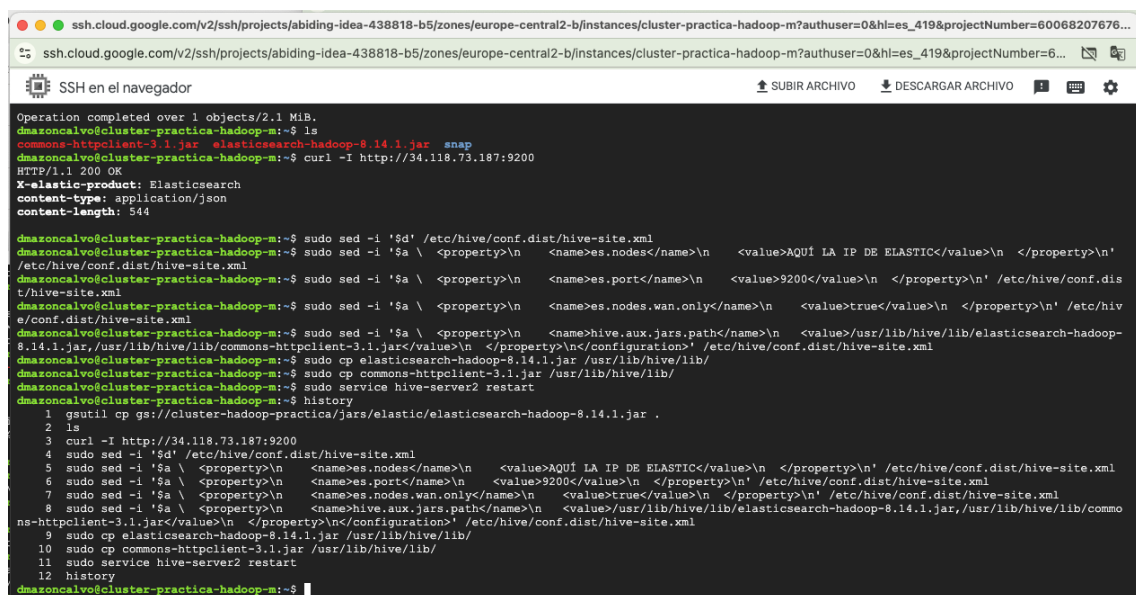


```
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=...
SSH en el navegador
SUBIR ARCHIVO
DESCARGAR ARCHIVO

Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Oct 28 19:49:59 2024 from 35.235.244.97
dmazoncalvo@cluster-practica-hadoop-m:~$ gsutil cp gs://cluster-hadoop-practica/jars/elastic/commons-httpclient-3.1.jar .
Copying gs://cluster-hadoop-practica/jars/elastic/commons-httpclient-3.1.jar...
/ [1 files] [297.8 KiB/297.8 KiB]
Operation completed over 1 objects/297.8 KiB.
dmazoncalvo@cluster-practica-hadoop-m:~$ gsutil cp gs://cluster-hadoop-practica/jars/elastic/elasticsearch-hadoop-8.14.1.jar .
Copying gs://cluster-hadoop-practica/jars/elastic/elasticsearch-hadoop-8.14.1.jar...
/ [1 files] [ 2.1 MiB/ 2.1 MiB]
Operation completed over 1 objects/2.1 MiB.
dmazoncalvo@cluster-practica-hadoop-m:~$ ls
commons-httpclient-3.1.jar  elasticsearch-hadoop-8.14.1.jar  snap
dmazoncalvo@cluster-practica-hadoop-m:~$ curl -I http://34.118.73.187:9200
HTTP/1.1 200 OK
X-elastic-product: Elasticsearch
content-type: application/json
content-length: 544

dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/d' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>es.nodes</name>\n <value>AQUÍ LA IP DE ELASTIC</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>es.port</name>\n <value>9200</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>es.nodes.wan.only</name>\n <value>true</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>hive.aux.jars.path</name>\n <value>/usr/lib/hive/lib/elasticsearch-hadoop-8.14.1.jar,/usr/lib/hive/lib/commons-httpclient-3.1.jar</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo cp elasticsearch-hadoop-8.14.1.jar /usr/lib/hive/lib/
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo cp commons-httpclient-3.1.jar /usr/lib/hive/lib/
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo service hive-server2 restart
dmazoncalvo@cluster-practica-hadoop-m:~$
```

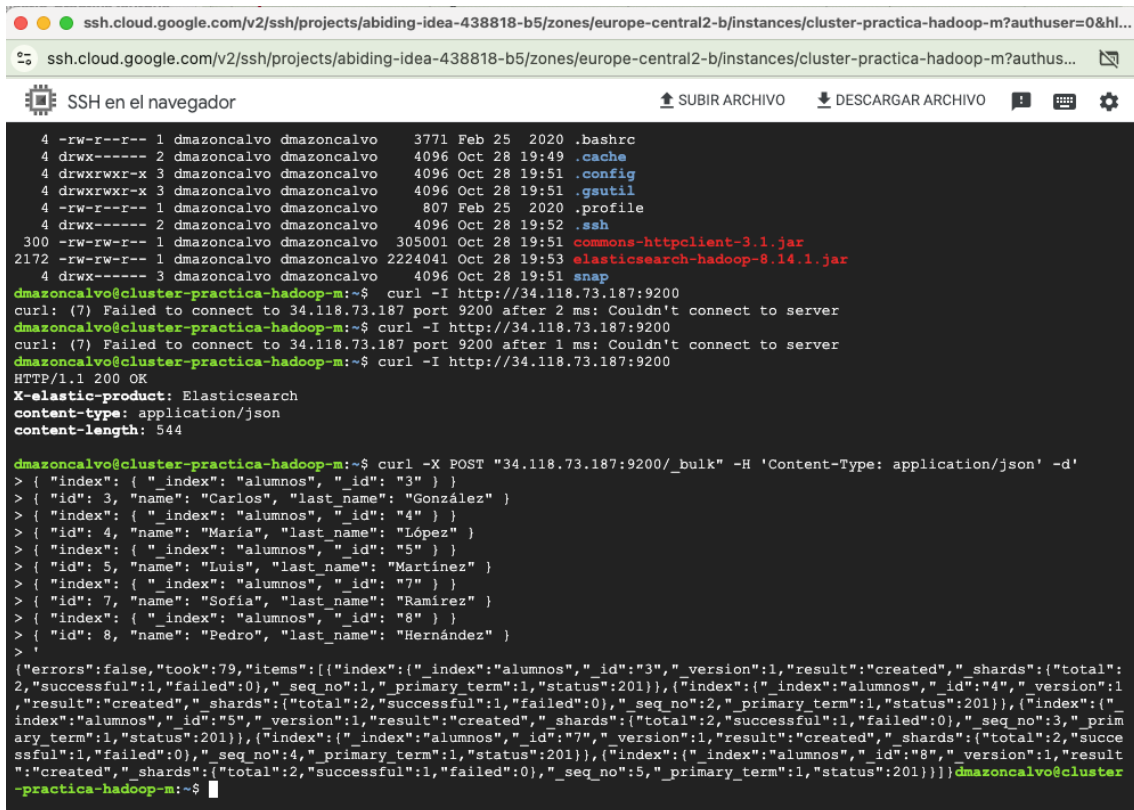


```
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&hl=es_419&projectNumber=60068207676...
SSH en el navegador
SUBIR ARCHIVO
DESCARGAR ARCHIVO

Operation completed over 1 objects/2.1 MiB.
dmazoncalvo@cluster-practica-hadoop-m:~$ ls
commons-httpclient-3.1.jar  elasticsearch-hadoop-8.14.1.jar  snap
dmazoncalvo@cluster-practica-hadoop-m:~$ curl -I http://34.118.73.187:9200
HTTP/1.1 200 OK
X-elastic-product: Elasticsearch
content-type: application/json
content-length: 544

dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/d' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>es.nodes</name>\n <value>AQUÍ LA IP DE ELASTIC</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>es.port</name>\n <value>9200</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>es.nodes.wan.only</name>\n <value>true</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo sed -i 's/A \ <property>\n <name>hive.aux.jars.path</name>\n <value>/usr/lib/hive/lib/elasticsearch-hadoop-8.14.1.jar,/usr/lib/hive/lib/commons-httpclient-3.1.jar</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo cp elasticsearch-hadoop-8.14.1.jar /usr/lib/hive/lib/
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo cp commons-httpclient-3.1.jar /usr/lib/hive/lib/
dmazoncalvo@cluster-practica-hadoop-m:~$ sudo service hive-server2 restart
dmazoncalvo@cluster-practica-hadoop-m:~$ history
1  gsutil cp gs://cluster-hadoop-practica/jars/elastic/elasticsearch-hadoop-8.14.1.jar .
2  ls
3  curl -I http://34.118.73.187:9200
4  sudo sed -i 's/d' /etc/hive/conf.dist/hive-site.xml
5  sudo sed -i 's/A \ <property>\n <name>es.nodes</name>\n <value>AQUÍ LA IP DE ELASTIC</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
6  sudo sed -i 's/A \ <property>\n <name>es.port</name>\n <value>9200</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
7  sudo sed -i 's/A \ <property>\n <name>es.nodes.wan.only</name>\n <value>true</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
8  sudo sed -i 's/A \ <property>\n <name>hive.aux.jars.path</name>\n <value>/usr/lib/hive/lib/elasticsearch-hadoop-8.14.1.jar,/usr/lib/hive/lib/commons-httpclient-3.1.jar</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml
9  sudo cp elasticsearch-hadoop-8.14.1.jar /usr/lib/hive/lib/
10 sudo cp commons-httpclient-3.1.jar /usr/lib/hive/lib/
11 sudo service hive-server2 restart
12 history
dmazoncalvo@cluster-practica-hadoop-m:~$
```

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



```
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&hl...
ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&hl...
SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO !
4 -rw-r--r-- 1 dmazoncalvo dmazoncalvo 3771 Feb 25 2020 .bashrc
4 drwx----- 2 dmazoncalvo dmazoncalvo 4096 Oct 28 19:49 .cache
4 drwxrwxr-x 3 dmazoncalvo dmazoncalvo 4096 Oct 28 19:51 .config
4 drwxrwxr-x 3 dmazoncalvo dmazoncalvo 4096 Oct 28 19:51 .gsutil
4 -rw-r--r-- 1 dmazoncalvo dmazoncalvo 807 Feb 25 2020 .profile
4 drwx----- 2 dmazoncalvo dmazoncalvo 4096 Oct 28 19:52 .ssh
300 -rw-rw-r-- 1 dmazoncalvo dmazoncalvo 305001 Oct 28 19:51 commons-httpclient-3.1.jar
2172 -rw-rw-r-- 1 dmazoncalvo dmazoncalvo 2224041 Oct 28 19:53 elasticsearch-hadoop-8.14.1.jar
4 drwx----- 3 dmazoncalvo dmazoncalvo 4096 Oct 28 19:51 snap
dmazoncalvo@cluster-practica-hadoop-m:~$ curl -I http://34.118.73.187:9200
curl: (7) Failed to connect to 34.118.73.187 port 9200 after 2 ms: Couldn't connect to server
dmazoncalvo@cluster-practica-hadoop-m:~$ curl -I http://34.118.73.187:9200
curl: (7) Failed to connect to 34.118.73.187 port 9200 after 1 ms: Couldn't connect to server
dmazoncalvo@cluster-practica-hadoop-m:~$ curl -I http://34.118.73.187:9200
HTTP/1.1 200 OK
X-elastic-product: Elasticsearch
content-type: application/json
content-length: 544
dmazoncalvo@cluster-practica-hadoop-m:~$ curl -X POST "34.118.73.187:9200/_bulk" -H 'Content-Type: application/json' -d'
> { "index": { "_index": "alumnos", "_id": "3" } }
> { "id": 3, "name": "Carlos", "last_name": "González" }
> { "index": { "_index": "alumnos", "_id": "4" } }
> { "id": 4, "name": "María", "last_name": "López" }
> { "index": { "_index": "alumnos", "_id": "5" } }
> { "id": 5, "name": "Luis", "last_name": "Martínez" }
> { "index": { "_index": "alumnos", "_id": "7" } }
> { "id": 7, "name": "Sofía", "last_name": "Ramírez" }
> { "index": { "_index": "alumnos", "_id": "8" } }
> { "id": 8, "name": "Pedro", "last_name": "Hernández" }
>
{"errors":false,"took":79,"items":[{"index":{"_index":"alumnos","_id":"3","version":1,"result":"created","shards":{"total":2,"successful":1,"failed":0},"seq_no":1,"primary_term":1,"status":201}},{"index":{"_index":"alumnos","_id":"4","version":1,"result":"created","shards":{"total":2,"successful":1,"failed":0},"seq_no":2,"primary_term":1,"status":201}},{"index":{"_index":"alumnos","_id":"5","version":1,"result":"created","shards":{"total":2,"successful":1,"failed":0},"seq_no":3,"primary_term":1,"status":201}},{"index":{"_index":"alumnos","_id":"7","version":1,"result":"created","shards":{"total":2,"successful":1,"failed":0},"seq_no":4,"primary_term":1,"status":201}},{"index":{"_index":"alumnos","_id":"8","version":1,"result":"created","shards":{"total":2,"successful":1,"failed":0},"seq_no":5,"primary_term":1,"status":201}}]}dmazoncalvo@cluster-practica-hadoop-m:~$
```

ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&h...

ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authus...

SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO

```
primary_term":1,"status":201}},{ "index":{"_index":"alumnos","_id":"7","_version":1,"result":"created","_shards":{"total":2,"
successful":1,"failed":0},"_seq_no":4,"_primary_term":1,"status":201}},{ "index":{"_index":"alumnos","_id":"8","_version":1,"
result":"created","_shards":{"total":2,"successful":1,"failed":0},"_seq_no":5,"_primary_term":1,"status":201}}}]damazoncalvo@
cluster-practica-hadoop-m:~$ curl -X GET "http://34.118.73.187:9200/alumnos/_search?pretty"
{
  "took" : 3,
  "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"
          ]
        }
      },
      {
        "_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",
```

ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authuser=0&h...

ssh.cloud.google.com/v2/ssh/projects/abiding-idea-438818-b5/zones/europe-central2-b/instances/cluster-practica-hadoop-m?authus...

SSH en el navegador

SUBIR ARCHIVO

DESCARGAR ARCHIVO

```
}
},
{
  "_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" : "Martínez"
  }
},
{
  "_index" : "alumnos",
  "_id" : "7",
  "_score" : 1.0,
  "_source" : {
    "id" : 7,
    "name" : "Sofia",
    "last_name" : "Ramírez"
  }
},
{
  "_index" : "alumnos",
  "_id" : "8",
  "_score" : 1.0,
  "_source" : {
    "id" : 8,
    "name" : "Pedro",
    "last_name" : "Hernández"
  }
}
]
}
}
amazoncalvo@cluster-practica-hadoop-m:~$
```



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

