PRÁCTICA BIG DATA ARCHITECTURE

- PARTE 1 - Configuración ES-Hadoop

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

```
dealva_pablo@es-hadoop-m:~$ gsutil cp gs://dataproc-staging-us-central1-279930953649-legwzmff/elasticsearch-hadoo
p-8.14.1.jar .
Copying gs://dataproc-staging-us-central1-279930953649-legwzmff/elasticsearch-hadoop-8.14.1.jar...
/ [1 files][ 2.1 MiB/ 2.1 MiB]
Deparation completed over 1 objects/2.1 MiB.
dealva_pablo@es-hadoop-m:~$ gsutil cp gs://dataproc-staging-us-central1-279930953649-legwzmff/commons-httpclient-
3.1.jar .
Copying gs://dataproc-staging-us-central1-279930953649-legwzmff/commons-httpclient-3.1.jar...
/ [1 files][297.8 KiB/297.8 KiB]
Deparation completed over 1 objects/297.8 KiB.
dealva_pablo@es-hadoop-m:~$
```

- PARTE 2 - Configuración server Elasticsearch

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...)

```
# The following settings, TLS certificates, and keys have been automatically
# generated to configure Elasticsearch security features on 03-11-2024 10:20:19
# 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: ["elasticsearch"]
# 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
```

PARTE 3 - Configuración en Cluster Hadoop de Conexión con ES

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

```
dealva_pablo@es-hadoop-m:~$ sudo sed -i '$d' /etc/hive/conf.dist/hive-site.xml

dealva_pablo@es-hadoop-m:~$ sudo sed -i '$a \ <property>\n \ <name>es.nodes</name>\n \ <value>AQUÍ LA IP DE EL

ASTIC</value>\n </property>\n' /etc/hive/conf.dist/hive-site.xml

dealva_pablo@es-hadoop-m:~$ sudo sed -i '$a \ <property>\n \ <name>es.port</name>\n \ <value>9200</value>\n <
property>\n' /etc/hive/conf.dist/hive-site.xml

dealva_pablo@es-hadoop-m:~$ sudo sed -i '$a \ <property>\n \ <name>es.nodes.wan.only</name>\n \ <value>9200</value>\n <
property>\n' /etc/hive/conf.dist/hive-site.xml

dealva_pablo@es-hadoop-m:~$ sudo sed -i '$a \ <property>\n \ <name>es.nodes.wan.only</name>\n \ <value>true</v

alue>\n \ </property>\n' /etc/hive/conf.dist/hive-site.xml

dealva_pablo@es-hadoop-m:~$ sudo sed -i '$a \ <property>\n \ <name>hive.aux.jars.path</name>\n \ <value>\usr/lib/hive/lib/configuration>' /etc/hive/conf.dist/hive-site.xml

dealva_pablo@es-hadoop-m:~$ sudo sed -i '$a \ <property>\n \ <name>httpclient-3.1.jar</value>\n \ </property>\n \
dealva_pablo@es-hadoop-m:~$ sudo cp elasticsearch-hadoop-8.14.1.jar /usr/lib/hive/lib/
dealva_pablo@es-hadoop-m:~$ sudo cp commons-httpclient-3.1.jar /usr/lib/hive/lib/
dealva_pablo@es-hadoop-m:~$ sudo service hive-server2 restart

dealva_pablo@es-hadoop-m:~$ sudo service hive-server2 restart

dealva_pablo@es-hadoop-m:~$ sudo service hive-server2 restart
```

- PARTE 4 - A conectar datos!

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

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- PARTE 5 - Opcional. KIBANA!

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

