Big Data Arquitecture XIV

PROFESOR: ALEJANDRO SAEZ

ALUMNO: PABLO AGUINAGA CABREDO

PARTE 1 - Configuración ES-Hadoop:

```
Last login: Tue Oct 29 19:35:53 2024 from 35.235.245.129

p_aguinaga@cluster-hadoop-m:~$ gsutil cp gs://bucket-elastic1/jars/elastic/elasticsearch-hadoop-8.14.1.jar .
CommandException: No URLs matched: gs://bucket-elastic1/jars/elastic/elasticsearch-hadoop-8.14.1.jar .
p_aguinaga@cluster-hadoop-m:~$ gsutil cp gs://bucket-elastic1/elasticsearch-hadoop-8.14.1.jar .
Copying gs://bucket-elastic1/elasticsearch-hadoop-8.14.1.jar...
- [1 files][ 2.1 MiB/ 2.1 MiB]
Operation completed over 1 objects/2.1 MiB.
p_aguinaga@cluster-hadoop-m:~$ gsutil cp gs://bucket-elastic1/commons-httpclient-3.1.jar .
Copying gs://bucket-elastic1/commons-httpclient-3.1.jar...
- [1 files][297.8 KiB/297.8 KiB]
Operation completed over 1 objects/297.8 KiB.
p_aguinaga@cluster-hadoop-m:~$
```

PARTE 2- Configuración elasticsearch:

```
# 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: ["elasticsearch1"]
# 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 --
 aguinaga@elasticsearch1:~$
```

PARTE 2- comprobación acceso desde el cluster Hadoop.

```
Last login: Tue Oct 29 23:19:42 2024 from 35.235.245.128

p_aguinaga@cluster-hadoop-m:~$ curl -I http://34.175.245.88:9200

HTTP/1.1 200 OK

X-elastic-product: Elasticsearch
content-type: application/json
content-length: 539

p_aguinaga@cluster-hadoop-m:~$
```

PARTE 3 - Configuración en Cluster Hadoop de Conexión con ES

PARTE 4 Conexión de datos 1/2

```
p_aguinaga@cluster-hadoop-m:/usr/lib/hive/lib$ sudo service hive-server2 restart
p_aguinaga@cluster-hadoop-m:/usr/lib/hive/lib$ curl -X GET "http://34.175.18.121:9200/alumnos/_search?pretty"
    "took" : 2,
"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": "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" : "Martinez"
}
```

```
"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" : "Martinez"
      }
    },
      " index" : "alumnos",
      "id": "7",
      " score" : 1.0,
      " source" : {
        "id": 7,
        "name" : "Sofía",
        "last name" : "Ramirez"
      }
    },
    {
      " index" : "alumnos",
      "id": "8",
      " score" : 1.0,
      " source" : {
        "id" : 8,
        "name" : "Pedro",
        "last name" : "Hernández"
      }
    }
  1
aguinaga@cluster-hadoop-m:/usr/lib/hive/lib$
```