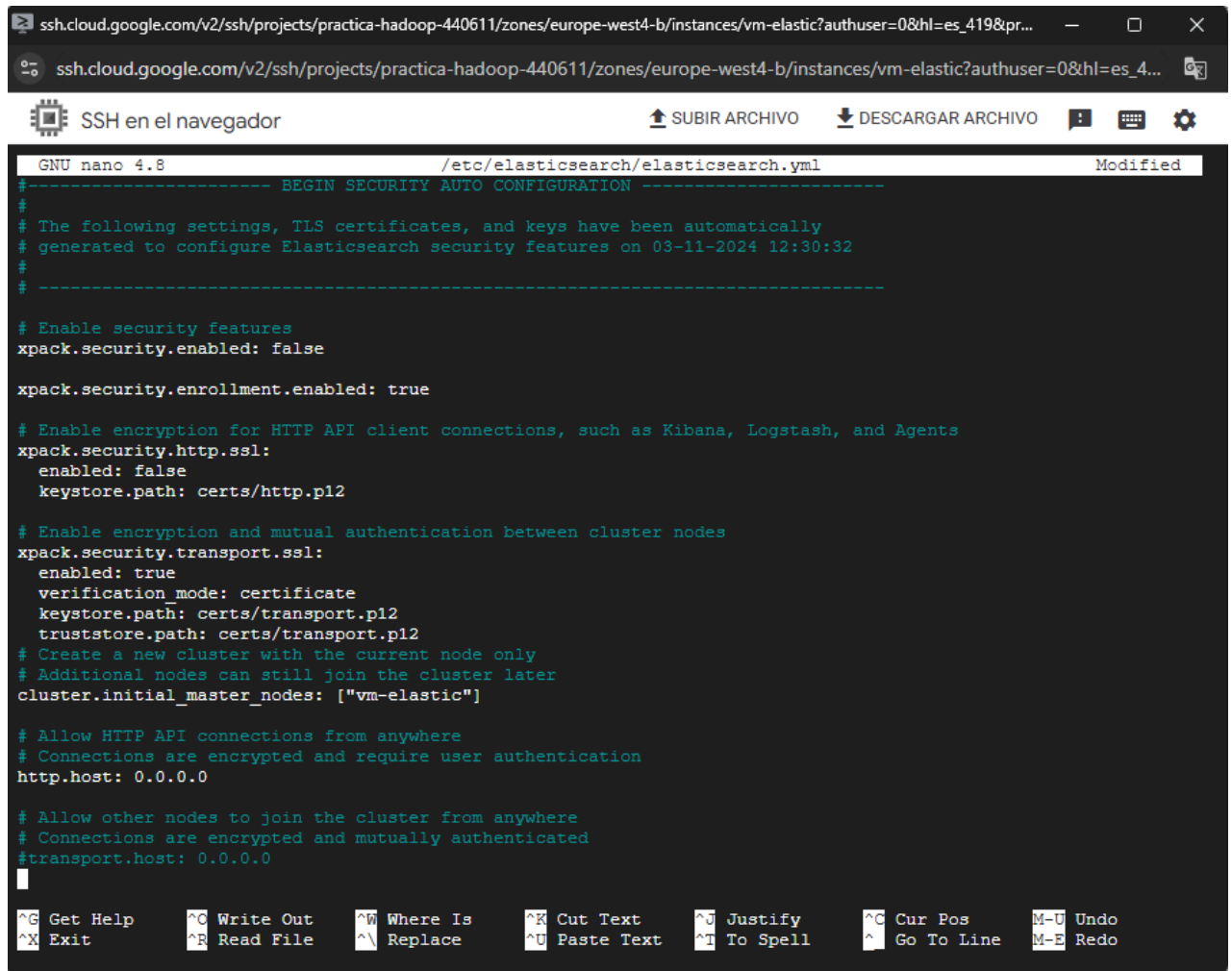


PUNTO 1

```
ssh.cloud.google.com/v2/ssh/projects/practica-hadoop-440611/zones/europe-west2-b/instances/cluster-es-hadoop-m?authuser=0&hl=...  
SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO  
* Documentation: https://help.ubuntu.com  
* Management: https://landscape.canonical.com  
* Support: https://ubuntu.com/pro  
  
System information as of Sun Nov 3 12:19:43 UTC 2024  
  
System load: 0.24 Processes: 156  
Usage of /: 31.6% of 48.27GB Users logged in: 1  
Memory usage: 40% IPv4 address for ens4: 10.154.0.4  
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.  
  
1 update can be applied immediately.  
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: Sun Nov 3 12:18:15 2024 from 35.235.244.114  
dralexgamer@cluster-es-hadoop-m:~$ gsutil cp gs://bucket-para-elastic-1/jars/commons-httpclient-3.1.jar .  
Copying gs://bucket-para-elastic-1/jars/commons-httpclient-3.1.jar...  
/ [1 files][297.8 KiB/297.8 KiB]  
Operation completed over 1 objects/297.8 KiB.  
dralexgamer@cluster-es-hadoop-m:~$ gsutil cp gs://bucket-para-elastic-1/jars/elasticsearch-hadoop-8.14.1.jar .  
Copying gs://bucket-para-elastic-1/jars/elasticsearch-hadoop-8.14.1.jar...  
/ [1 files][ 2.1 MiB/ 2.1 MiB]  
Operation completed over 1 objects/2.1 MiB.  
dralexgamer@cluster-es-hadoop-m:~$
```

PUNTO 2



```
ssh.cloud.google.com/v2/ssh/projects/practica-hadoop-440611/zones/europe-west4-b/instances/vm-elastic?authuser=0&hl=es_419&pr...
ssh.cloud.google.com/v2/ssh/projects/practica-hadoop-440611/zones/europe-west4-b/instances/vm-elastic?authuser=0&hl=es_4...

SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO !

GNU nano 4.8 /etc/elasticsearch/elasticsearch.yml Modified
#----- BEGIN SECURITY AUTO CONFIGURATION -----
#
# The following settings, TLS certificates, and keys have been automatically
# generated to configure Elasticsearch security features on 03-11-2024 12:30:32
#
# -----
# 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"]

# 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
|
^G Get Help ^C Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos M-U Undo
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^ Go To Line M-B Redo
```

PUNTO 3

```
ssh.cloud.google.com/v2/ssh/projects/practica-hadoop-440611/zones/europe-west2-b/instances/cluster-es-hadoop-m?authuser=0&hl=es_419&projectNum...
ssh.cloud.google.com/v2/ssh/projects/practica-hadoop-440611/zones/europe-west2-b/instances/cluster-es-hadoop-m?authuser=0&hl=es_419&pr...

SSH en el navegador SUBIR ARCHIVO DESCARGAR ARCHIVO

System information as of Sun Nov 3 12:37:57 UTC 2024

System load: 0.24 Processes: 153
Usage of /: 31.6% of 48.27GB Users logged in: 1
Memory usage: 40% IPv4 address for ens4: 10.154.0.4
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.

1 update can be applied immediately.
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: Sun Nov 3 12:19:43 2024 from 35.235.244.112
dralexgamer@cluster-es-hadoop-m:~$ sudo sed -i '$d' /etc/hive/conf.dist/hive-site.xml
dralexgamer@cluster-es-hadoop-m:~$ sudo sed -i '$a \ <property>\n <name>es.nodes</name>\n <value>34.141.130.87</value>\n
n </property>\n' /etc/hive/conf.dist/hive-site.xml
dralexgamer@cluster-es-hadoop-m:~$ sudo sed -i '$a \ <property>\n <name>es.port</name>\n <value>9200</value>\n </prope
rty>\n' /etc/hive/conf.dist/hive-site.xml
dralexgamer@cluster-es-hadoop-m:~$ sudo sed -i '$a \ <property>\n <name>es.nodes.wan.only</name>\n <value>true</value>\n
n </property>\n' /etc/hive/conf.dist/hive-site.xml
dralexgamer@cluster-es-hadoop-m:~$ sudo sed -i '$a \ <property>\n <name>hive.aux.jars.path</name>\n <value>/usr/lib/hive
/lib/elasticsearch-hadoop-8.14.1.jar,/usr/lib/hive/lib/commons-httpclient-3.1.jar</value>\n </property>\n</configuration>' /e
tc/hive/conf.dist/hive-site.xml
dralexgamer@cluster-es-hadoop-m:~$ sudo cp elasticsearch-hadoop-8.14.1.jar /usr/lib/hive/lib/
dralexgamer@cluster-es-hadoop-m:~$ sudo cp commons-httpclient-3.1.jar /usr/lib/hive/lib/
dralexgamer@cluster-es-hadoop-m:~$ sudo service hive-server2 restart
dralexgamer@cluster-es-hadoop-m:~$
```

PUNTO 4

```
dr@alexgamer@wv-elastic:~$ curl -X POST "34.141.130.87:9200/_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": "6" } }
> { "id": 6, "name": "Sofía", "last_name": "Ramírez" }
> { "index": { "_index": "alumnos", "_id": "8" } }
> { "id": 8, "name": "Pedro", "last_name": "Hernández" }
}

{ "errors": false, "took": 82, "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": "6", " _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 } ] } }

{
  "took": 4,
  "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": "4",
        "_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": "María",
          "last_name": "López"
        }
      },
      {
        "_index": "alumnos",
        "_id": "5",
        "_score": 1.0,
        "source": {
          "id": 5,
          "name": "Luis",
          "last_name": "Martínez"
        }
      },
      {
        "_index": "alumnos",
        "_id": "6",
        "_score": 1.0,
        "source": {
          "id": 6,
          "name": "Sofía",
          "last_name": "Ramírez"
        }
      },
      {
        "_index": "alumnos",
        "_id": "8",
        "_score": 1.0,
        "source": {
          "id": 8,
          "name": "Pedro",
          "last_name": "Hernández"
        }
      }
    ]
  }
}
```

```

    "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": "6",
    "score": 1.0,
    "source": {
      "id": 6,
      "name": "Sofía",
      "last_name": "Ramírez"
    }
  },
  {
    "index": "alumnos",
    "id": "8",
    "score": 1.0,
    "source": {
      "id": 8,
      "name": "Pedro",
      "last_name": "Hernández"
    }
  }
]
}
dr@alexgamer@wv-elastic:~$
```

PUNTO 5

