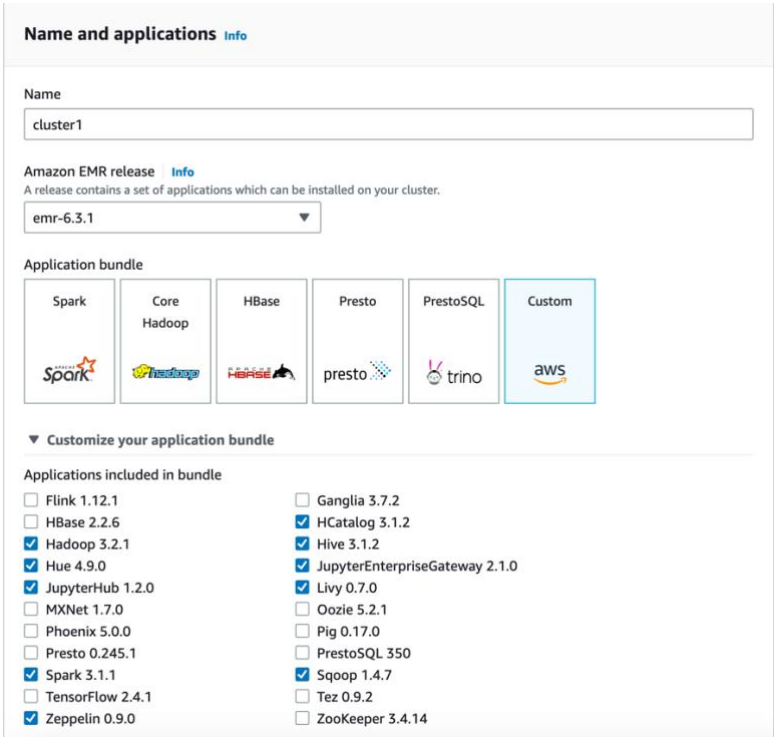
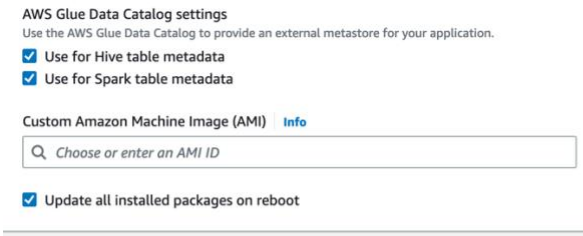
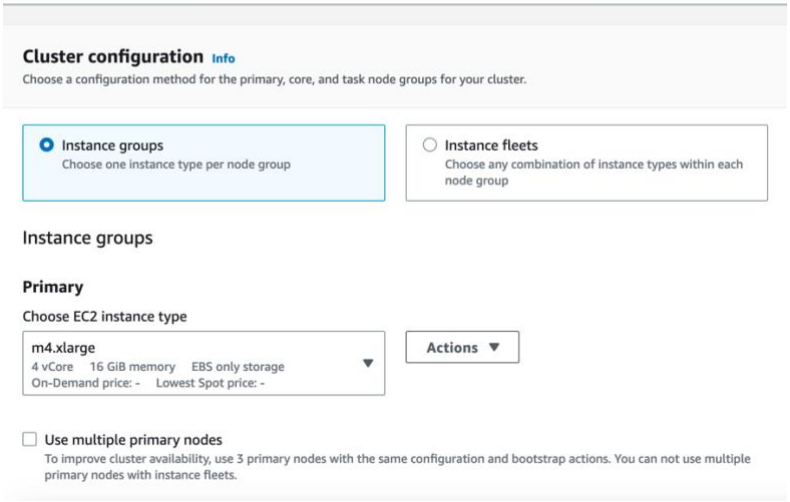
Reto 5-1

1. Creación y configuración del clúster en AWS.







Core

Choose EC2 instance type

m4.xlarge
4 vCore 16 GiB memory EBS only storage
On-Demand price: - Lowest Spot price: -

Actions

▶ **Node configuration - *optional***

Task 1 of 1

Remove instance group

Name

Task - 1

Choose EC2 instance type

m4.xlarge
4 vCore 16 GiB memory EBS only storage
On-Demand price: - Lowest Spot price: -

Actions

▶ **Node configuration - *optional***

Add task instance group

You can add up to 47 more task instance groups.

Cluster scaling and provisioning option Info

Amazon EMR console only supports EMR-managed scaling. To create a cluster with auto-scaling, use CLI or SDK.

- (●) **Set cluster size manually**
  Use this option if you know your workload patterns in advance.
- ( ) **Use EMR-managed scaling**
  Monitor key workload metrics so that EMR can optimize the cluster size and resource utilization.

Name	Instance type	Size		Use Spot purchasing option
Core	m4.xlarge	1	instance(s)	☐
Task - 1	m4.xlarge	1	instance(s)	☐

Networking Info

Virtual private cloud (VPC) Info

vpc-03a3ccc8477f9b4bd Browse Create VPC

Subnet Info

subnet-0075a8b1af477f0dd Browse Create subnet

Software settings - *optional* Info

Enter configuration | Load JSON from Amazon S3

```
[
  {
    "Classification": "jupyter-s3-conf",
    "Properties": {
      "s3.persistence.enabled": "true",
      "s3.persistence.bucket": "st0263eatorresm"
    }
  }
]
```

JSON Ln 9, Col 2

Identity and Access Management (IAM) roles Info

Choose or create a service role and instance profile for the EC2 instances in your cluster.

Amazon EMR service role Info

The service role is an IAM role that Amazon EMR assumes to provision resources and perform service-level actions with other AWS services.

- Choose an existing service role
  Select a default service role or a custom role with IAM policies attached so that your cluster can interact with other AWS services.
- Create a service role
  Let Amazon EMR create a new service role so that you can grant and restrict access to resources in other AWS services.

Service role

EMR_DefaultRole

EC2 instance profile for Amazon EMR

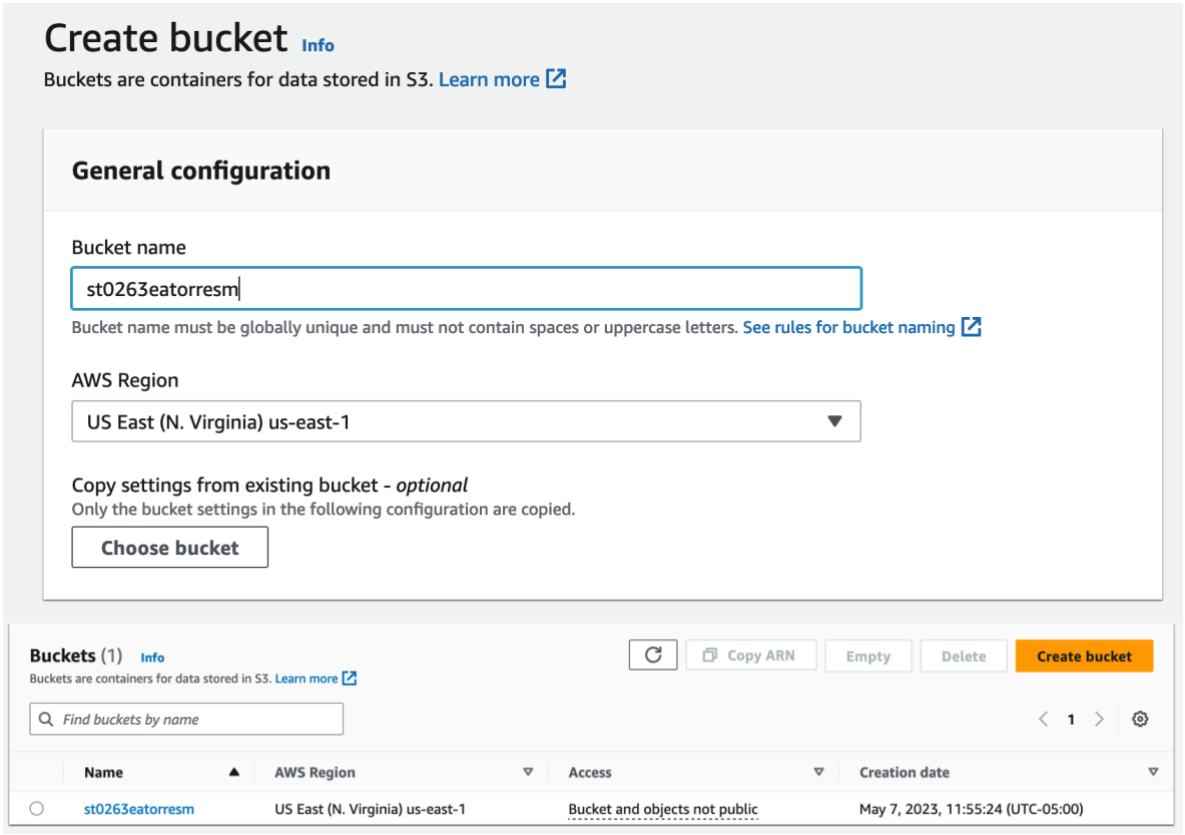
The instance profile assigns a role to every EC2 instance in a cluster. The instance profile must specify a role that can access the resources for your steps and bootstrap actions.

- Choose an existing instance profile
  Select a default role or a custom instance profile with IAM policies attached so that your cluster can interact with your resources in Amazon S3.
- Create an instance profile
  Let Amazon EMR create a new instance profile so that you can specify a custom set of resources for it to access in Amazon S3.

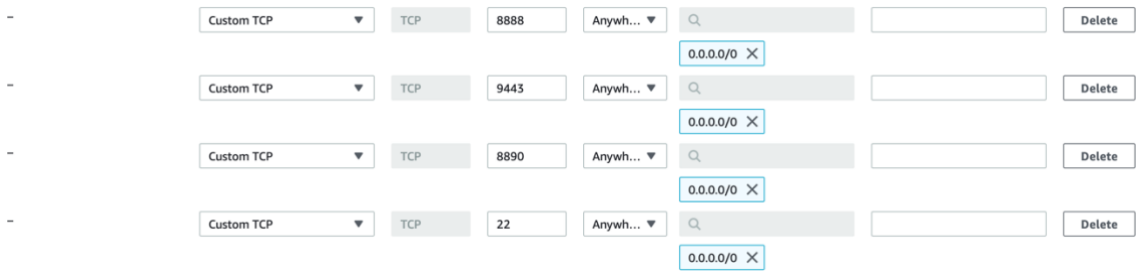
Instance profile

EMR_EC2_DefaultRole

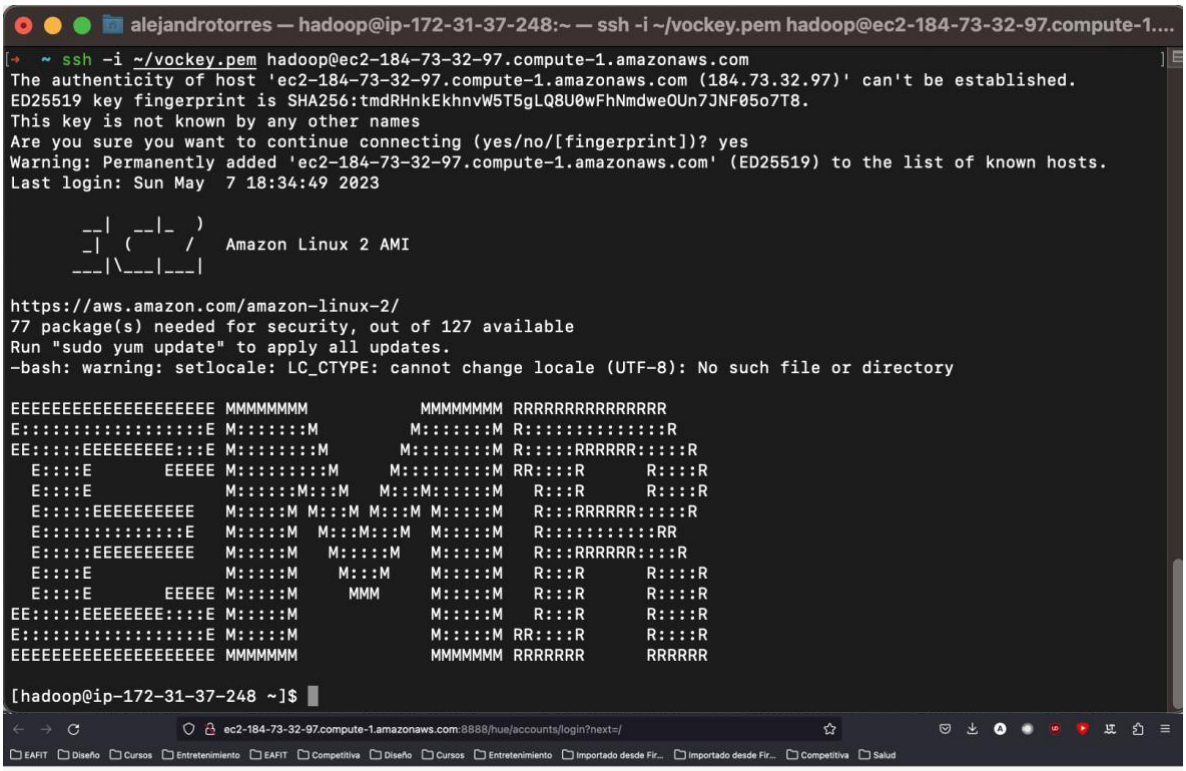
2. Creación del bucket

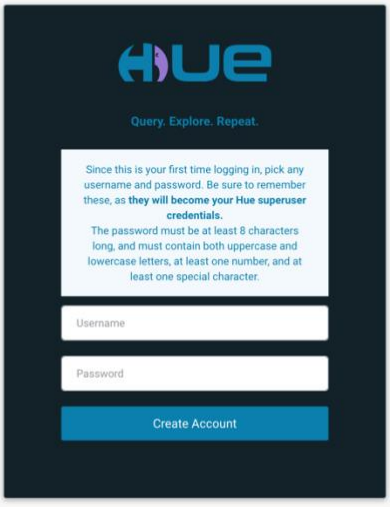


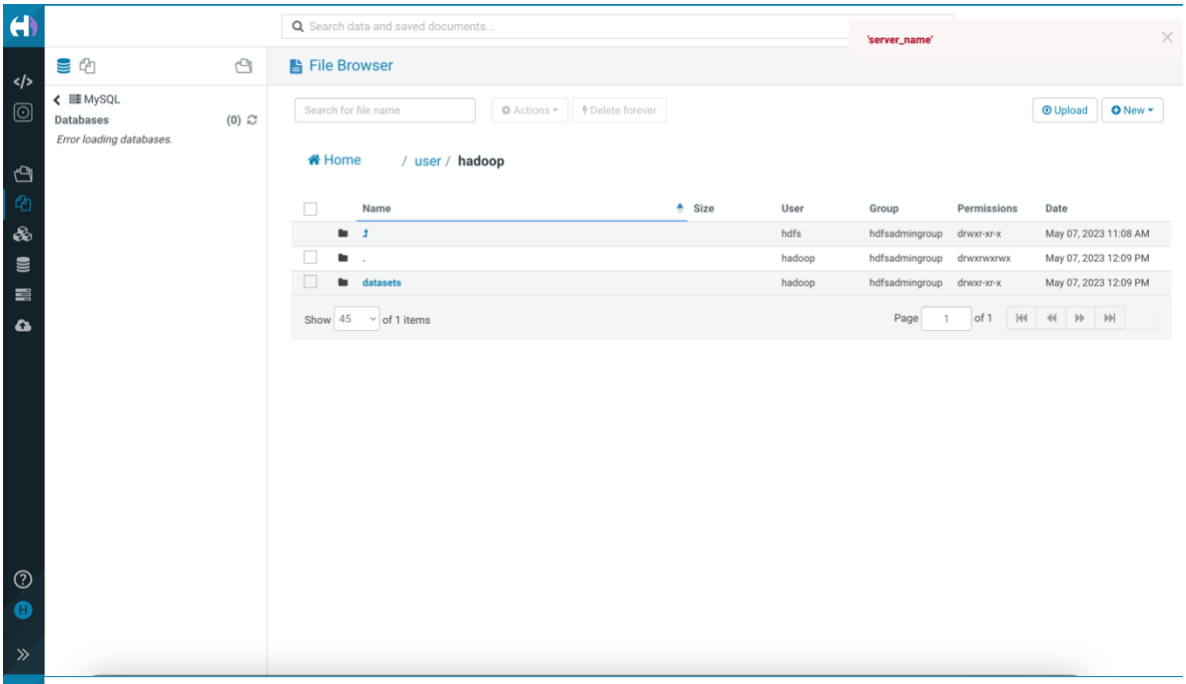
3. Configuración de seguridad.

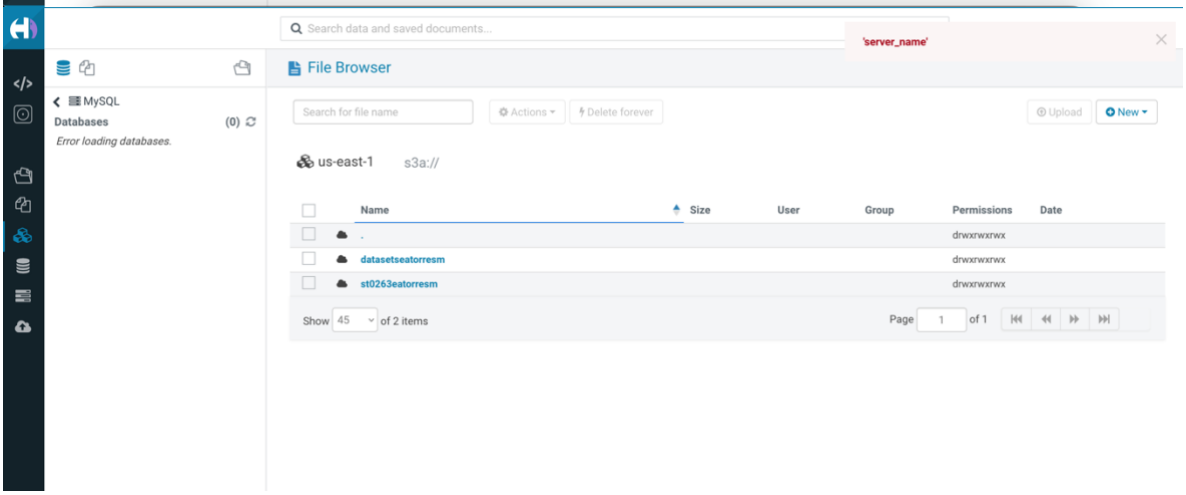


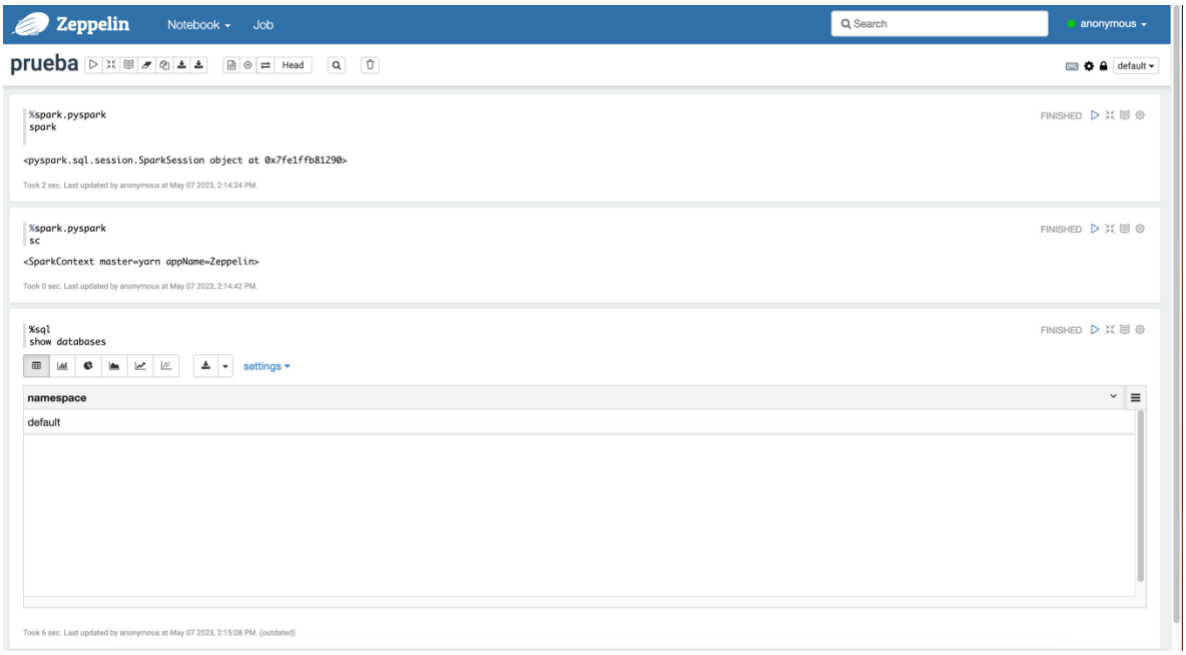
4. Conexión con el clúster, Hue y Zeppelin.






Search data and saved documents...
'server_name'
File Browser
MySQL
Databases (0)
Error loading databases.
Search for file name
Actions
Delete forever
Upload
New
Home / user / hadoop
Name Size User Group Permissions Date
hdfs hdfsadmingroup drwxr-xr-x May 07, 2023 11:08 AM
hadoop hdfsadmingroup drwxrwxrwx May 07, 2023 12:09 PM
datasets hadoop hdfsadmingroup drwxr-xr-x May 07, 2023 12:09 PM
Show 45 of 1 items
Page 1 of 1


Search data and saved documents...
'server_name'
File Browser
MySQL
Databases (0)
Error loading databases.
Search for file name
Actions
Delete forever
Upload
New
us-east-1 s3a://
Name Size User Group Permissions Date
drwxrwxrwx
datasetseatorresm drwxrwxrwx
st0263eatorresm drwxrwxrwx
Show 45 of 2 items
Page 1 of 1


Zeppelin
Notebook
Job
Search
anonymous
prueba
Head
default
%spark.pyspark
spark
FINISHED
<pyspark.sql.session.SparkSession object at 0x7fe1ffb81290>
Took 2 sec. Last updated by anonymous at May 07 2023, 2:14:24 PM.
%spark.pyspark
sc
FINISHED
<SparkContext master=yarn appName=Zeppelin>
Took 0 sec. Last updated by anonymous at May 07 2023, 2:14:42 PM.
%sql
show databases
FINISHED
settings
namespace
default
Took 6 sec. Last updated by anonymous at May 07 2023, 2:15:08 PM. (outdated)