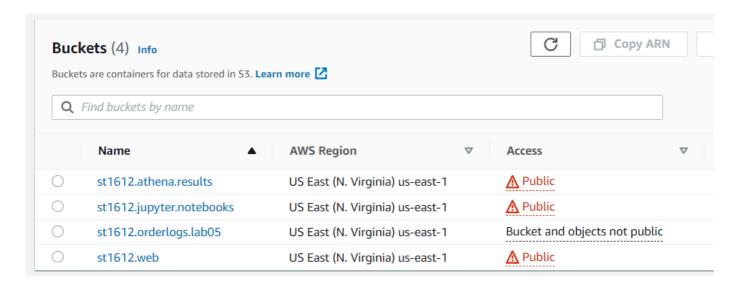
Lab 02_03 - EMR

Lab 02_03 - EMR

The following resources were created with Terraform. The code can be found in the infrastructure folder.

Resources

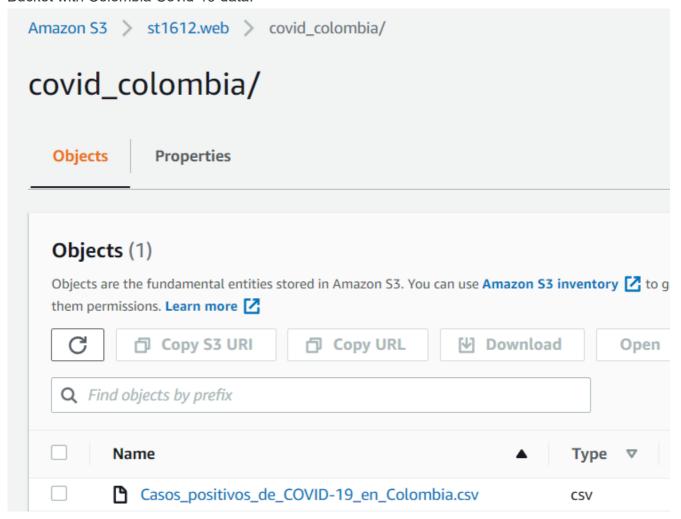
S3 Buckets



Datalake

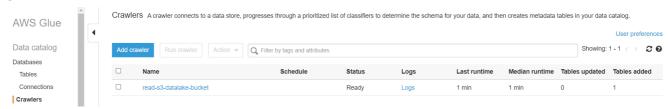
Taken from: https://www.datos.gov.co/Salud-y-Protecci-n-Social/Casos-positivos-de-COVID-19-en-Colombia/gt2j-8ykr/data

• Bucket with Colombia Covid-19 data.

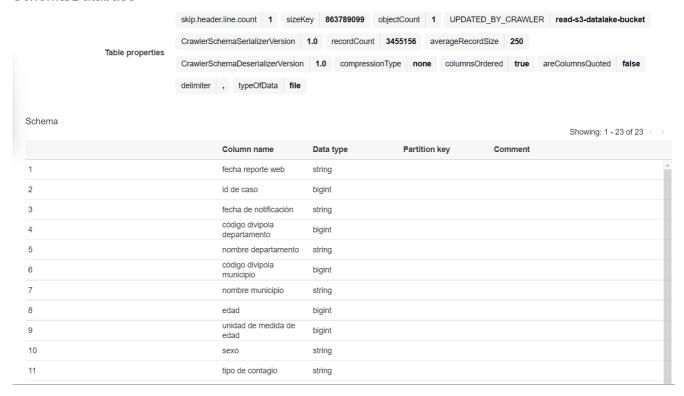


Glue

Crawler

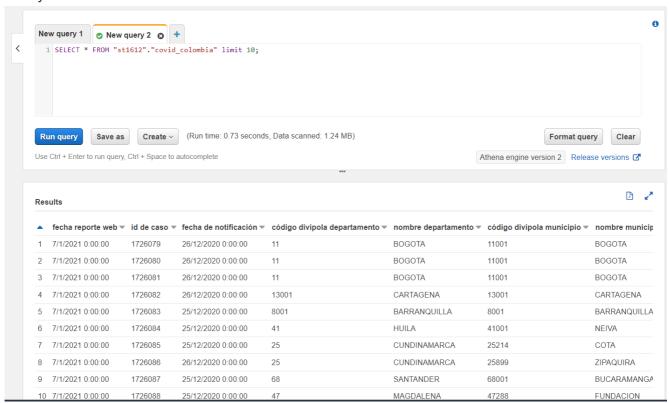


Schema/Database



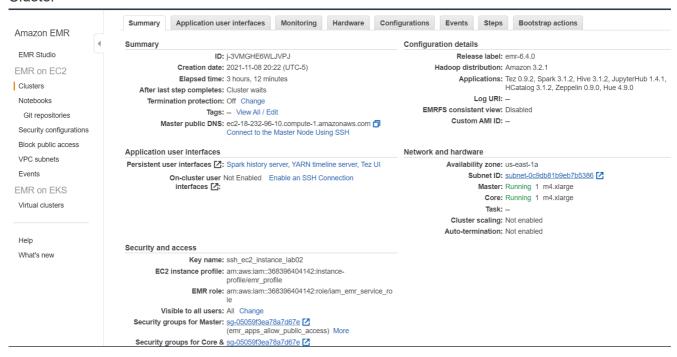
Athena

· Query Editor

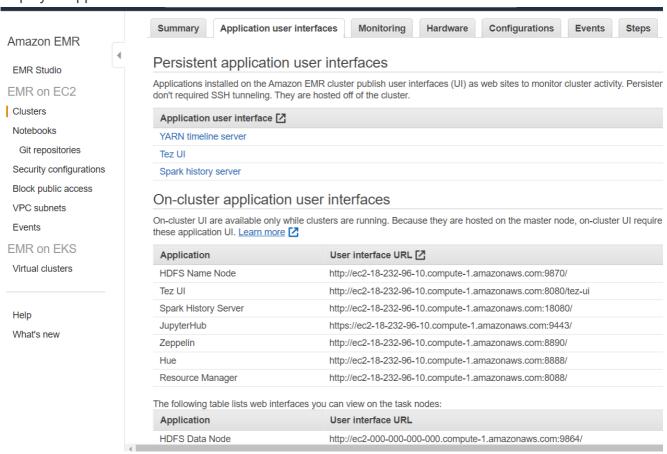


EMR

Cluster

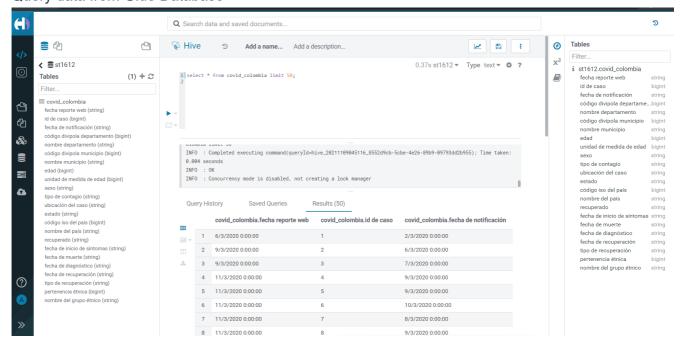


Deployed applications



Hue

· Query data from Glue Database



Jupyter

Notebook

```
In [4]: sqlDF = spark.sql("SELECT * FROM raw")
             df.show()
             FloatProgress(value=0.0, bar style='info', description='Progress:', layout=Layout(height='25px', width='50%'),...
In [5]: sqlDF.columns
             FloatProgress(value=0.0, bar_style='info', description='Progress:', layout=Layout(height='25px', width='50%'),...
            ['fecha reporte web', 'id de caso', 'fecha de notificación', 'código divipola departamento', 'nombre departament o', 'código divipola municipio', 'nombre municipio', 'edad', 'unidad de medida de edad', 'sexo', 'tipo de contagi o', 'ubicación del caso', 'estado', 'código iso del país', 'nombre del país', 'recuperado', 'fecha de inicio de sí ntomas', 'fecha de muerte', 'fecha de diagnóstico', 'fecha de recuperación', 'tipo de recuperación', 'pertenencia étnica', 'nombre del grupo étnico', 'partition_0']
In [8]: sqlDF.select("fecha reporte web", "estado").show(5)
            FloatProgress(value=0.0, bar style='info', description='Progress:', layout=Layout(height='25px', width='50%'),...
            |fecha reporte web|estado|
             Ifecha reporte web|Estado
               6/3/2020 0:00:00 Leve
               9/3/2020 0:00:00
                                           Leve
               9/3/2020 0:00:001
                                            Leve
             |11/3/2020 0:00:00| Leve
            only showing top 5 rows
```