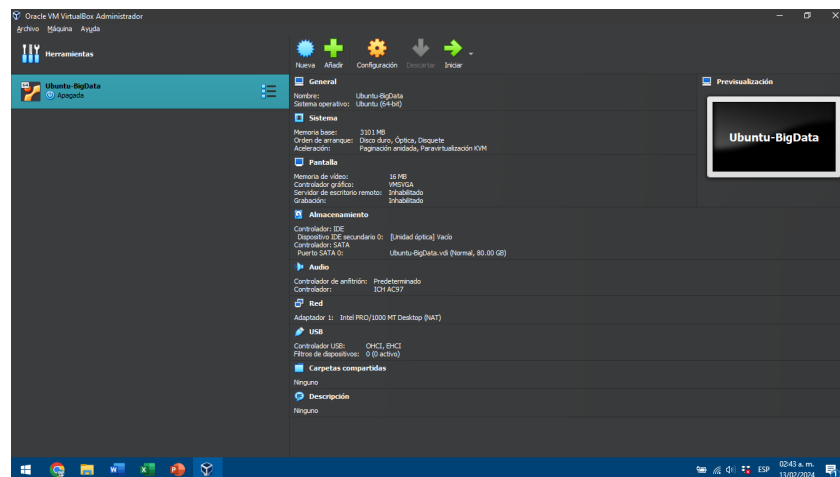
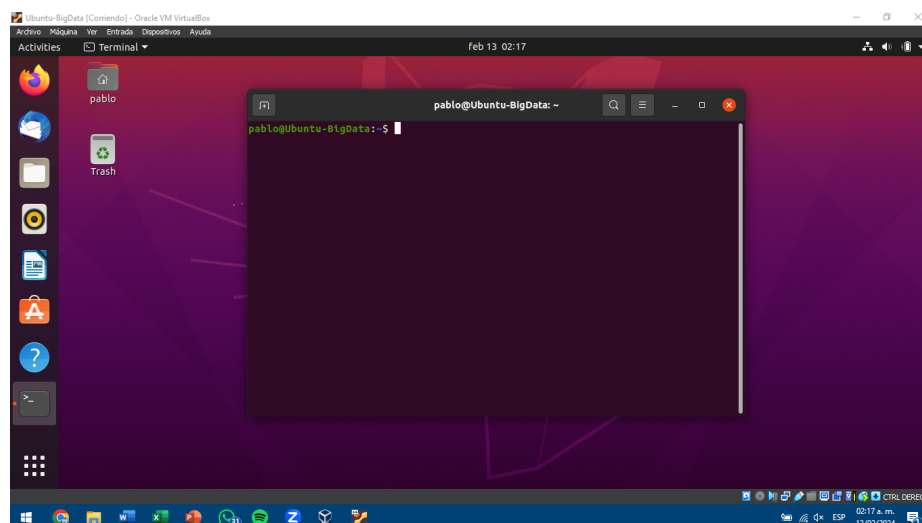


Nombre: Pablo Elías Ramírez Escalante		Matrícula: AL02883894
Infraestructura para Big Data	Nombre del profesor: Miguel de Jesús Martínez Felipe	
Módulo 2	Avance 2 Evidencia 1	
Fecha: 19/03/2024		
Bibliografía: <i>Ambari</i> . (s. f.). https://docs.cloudera.com/HDPDocuments/Ambari/Ambari-2.7.0.0/index.html		

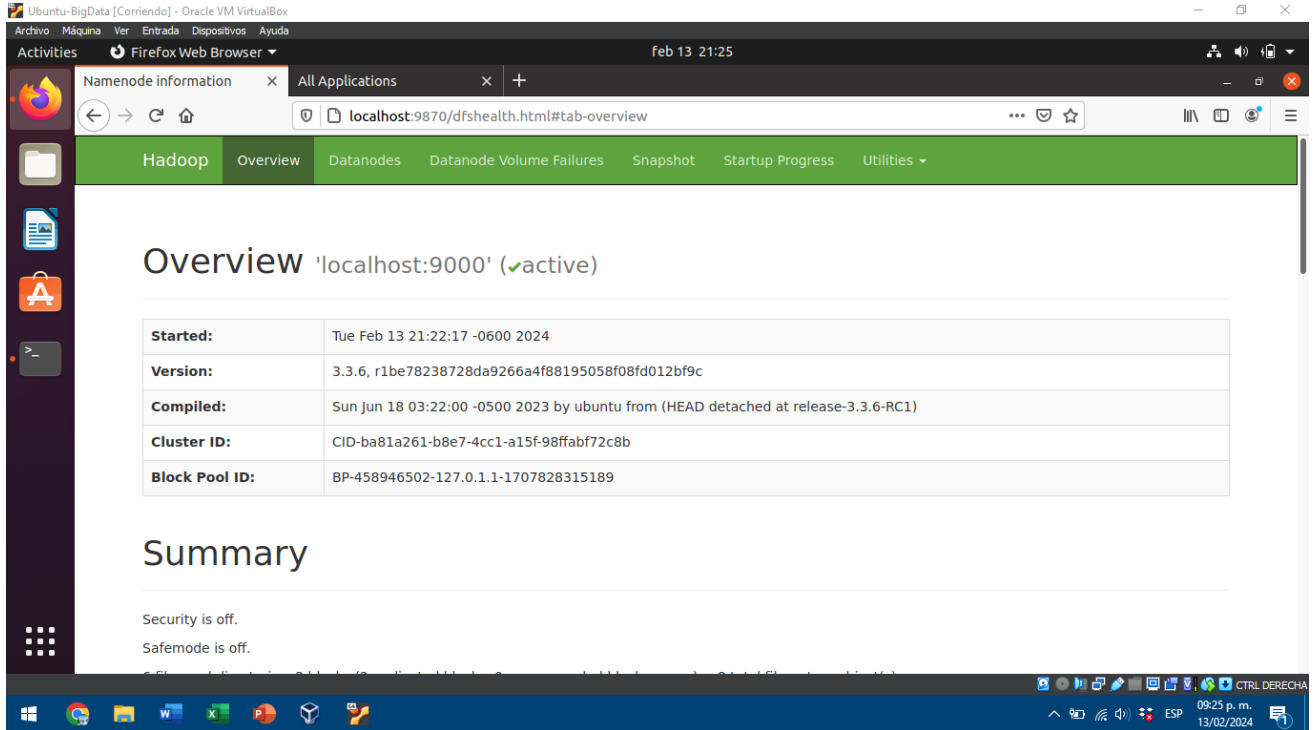
1. Entrega de captura de pantalla de su máquina en Azure (o local)



- ## 2. Entrega de captura de pantalla de ejecución de Ubuntu



3. Entrega de captura de pantalla de su clúster (Hadoop para quienes lo hicieron local)

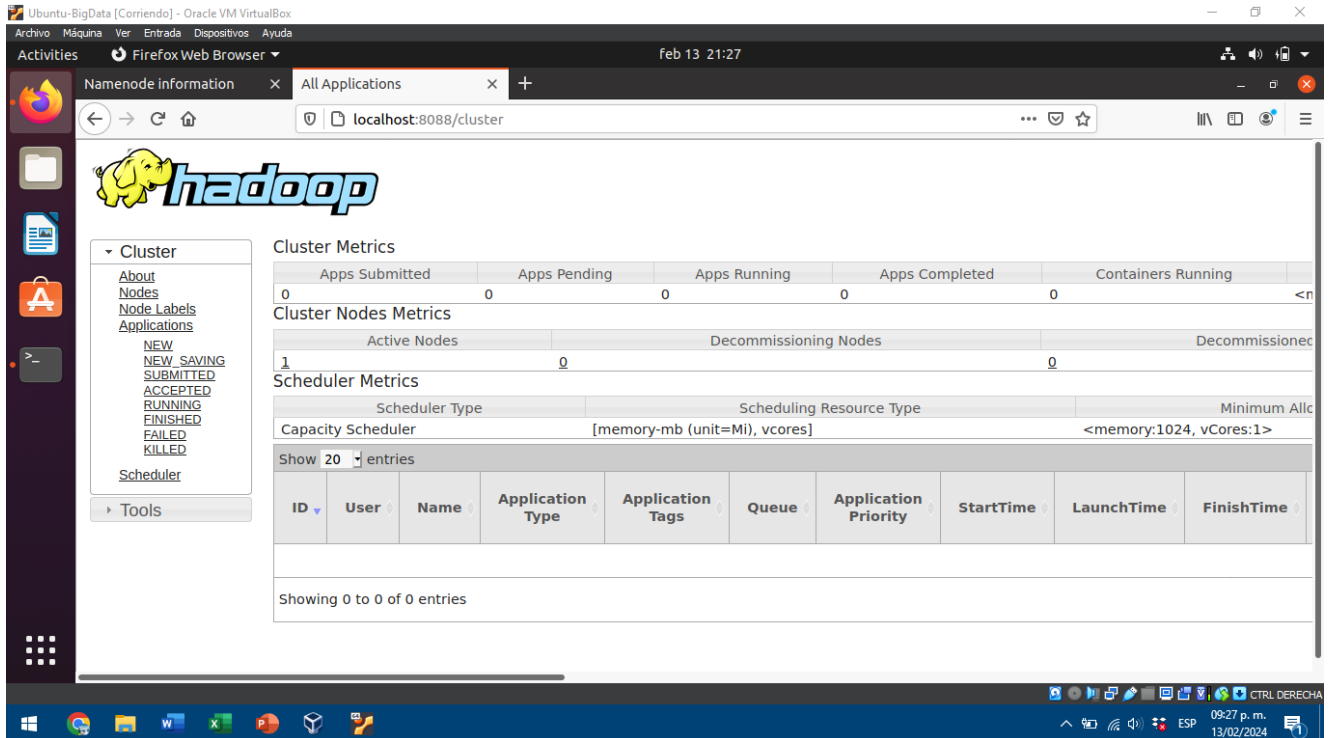


Overview 'localhost:9000' (✓active)

Started:	Tue Feb 13 21:22:17 -0600 2024
Version:	3.3.6, r1be78238728da9266a4f8b195058f08fd012bf9c
Compiled:	Sun Jun 18 03:22:00 -0500 2023 by ubuntu from (HEAD detached at release-3.3.6-RC1)
Cluster ID:	CID-ba81a261-b8e7-4cc1-a15f-98ffabf72c8b
Block Pool ID:	BP-458946502-127.0.1.1-1707828315189

Summary

Security is off.
Safemode is off.



hadoop

Cluster

- About
- Nodes
- Node Labels
- Applications
- NEW
- NEW SAVING
- SUBMITTED
- ACCEPTED
- RUNNING
- FINISHED
- FAILED
- KILLED
- Scheduler
- Tools

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running
0	0	0	0	0

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes
1	0	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation
Capacity Scheduler	[memory-mb (unit=Mi), vcores]	<memory:1024, vCores:1>

Show 20 entries

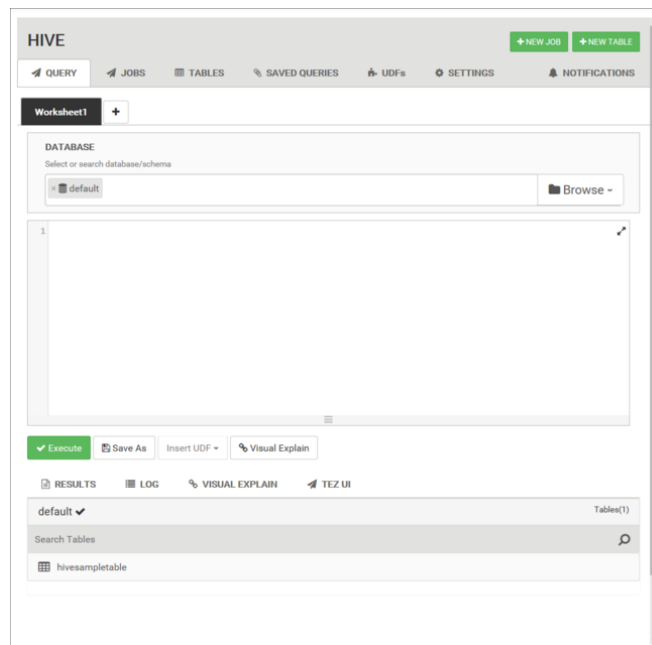
ID	User	Name	Application Type	Application Tags	Queue	Application Priority	StartTime	LaunchTime	FinishTime
Showing 0 to 0 of 0 entries									

4. Investigación de ¿Qué es Ambari View? (Máximo una cuartilla, mínimo media cuartilla)

Ambari View es una aplicación con muchas funciones que se desarrolla para facilitar la gestión y el seguimiento del clúster de Hadoop. Para administradores y usuarios, Ambari View es una interfaz de usuario basada como una web fácil de usar e intuitiva para administrar y monitorear las instalaciones de Hadoop.

Esta aplicación es capaz de proporcionar vistas personalizadas para diferentes roles de usuario y esa es una de las características más destacadas de Ambari View. Esto significa que los administradores pueden configurar Ambari View para que muestre solo la información relevante y las herramientas necesarias para cada usuario según sus responsabilidades dentro del clúster. Por ejemplo, un administrador de sistema puede acceder a vistas que incluyen herramientas de supervisión de recursos y diagnóstico de problemas, mientras que un desarrollador puede acceder a vistas centradas en la gestión de aplicaciones y recursos de computadora.

Además, ofrece capacidades de visualización de datos que permiten a los usuarios analizar el rendimiento y el estado de sus clústeres Hadoop. Esto contiene herramientas de visualización como gráficos interactivos y tablas dinámicas que facilitan la comprensión de la salud y el rendimiento del sistema.



5. Captura de pantalla del ejercicio en mongo código en Python e inserción en Mongo compass

Data to store/insert into MongoDB Database:

```
In [4]: # One document:
doc_1 = {"_id": 1, "first_name": "Roldoro", "gender": "M", "shift": ["AM", "PM"], "ph_num": 456378903, "trains_for":

In [7]: # Multiple documents:
docs = [
    {"first_name": "Miguel", "id": 1, "shift": "AM", "ph_num": 234564980, "trains_for": ["tennis", "badminton"], "ma
    {"first_name": "Victor", "gender": "M", "shift": "AM", "ph_num": 987654321, "trains_for": ["valleyball", "basket
    {"first_name": "Rosa", "gender": "M", "shift": "PM", "ph_num": 456234908, "trains_for": "badminton", "manager":
    {"first_name": "alberto", "gender": "M", "shift": "AM", "ph_num": 123456789, "trains_for": "tennis", "manager":
    {"first_name": "Emma", "gender": "F", "shift": "PM", "ph_num": 776655443, "trains_for": "indoor archery", "manag
    {"first_name": "Hira", "gender": "F", "shift": ["AM", "PM"], "ph_num": 246813579, "trains_for": ["valleyball",
    {"first_name": "Isha", "gender": "F", "shift": "PM", "ph_num": 135792468, "trains_for": "indoor archery", "manag
    {"first_name": "Alice", "gender": "M", "shift": "AM", "ph_num": 2244668800, "trains_for": "badminton", "manager"
    {"first_name": "Deepali", "gender": "F", "shift": ["AM", "PM"], "ph_num": 113355779, "trains_for": ["tennis", "b

In [6]: # Dummy documents:
test_docs = [
    {"first_name": "test_1", "gender": "F", "shift": "AM", "ph_num": 234564980, "trains_for": ["tennis", "badminton"]
    {"first_name": "test_2", "gender": "M", "shift": "AM", "ph_num": 987654321, "trains_for": ["valleyball", "basket
    {"_id": 14, "first_name": "test_3", "gender": "M", "shift": "AM", "ph_num": 987654321, "trains_for": ["valleyball

In [7]: # Dummy Document:
test_doc = {"_id": 14, "first_name": "test", "gender": "M", "shift": "AM", "ph_num": 987654321, "trains_for": ["valle
```

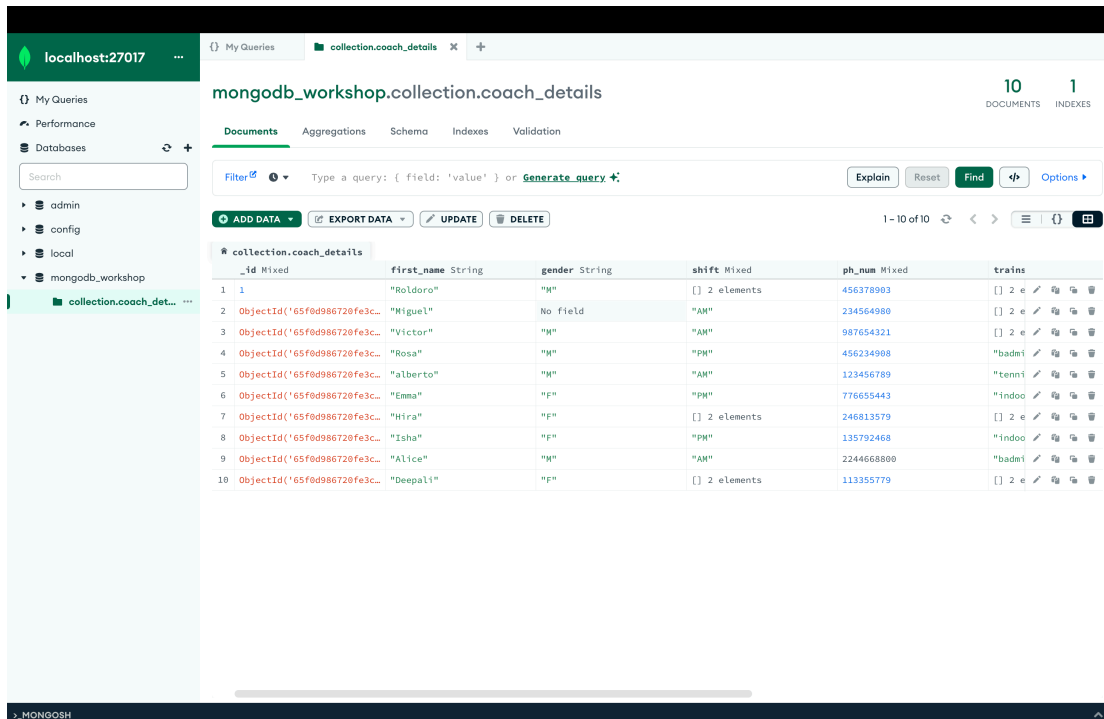
To insert documents to the above collection 'coach_details':

```
In [5]: # To insert one document:
collection.insert_one(doc_1)

Out[5]: InsertOneResult(1, acknowledged=True)

In [8]: # To insert multiple documents:
collection.insert_many(docs)

Out[8]: InsertManyResult([ObjectId('65f0d986720fe3c9f5130eb7'), ObjectId('65f0d986720fe3c9f5130ebb'), ObjectId('65f0d986720fe3c9f5130ebc'), ObjectId('65f0d986720fe3c9f5130ebd'), ObjectId('65f0d986720fe3c9f5130ebe'), ObjectId('65f0d986720fe3c9f5130ebf')], acknowledged=True)
```



The screenshot shows the MongoDB Compass interface for the 'coach_details' collection. The left sidebar shows the database structure with 'collection.coach_details' selected. The main area displays a table of 10 documents. The table has columns: _id, first_name, gender, shift, ph_num, and trains. The documents are numbered 1 to 10, each with a unique ObjectId and specific data for first_name, gender, shift, ph_num, and trains.

#	_id	first_name	gender	shift	ph_num	trains
1	1	"Roldoro"	"M"	[] 2 elements	456378903	[] 2 elements
2	ObjectId('65f0d986720fe3c9f5130eb7')	"Miguel"	No field	"AM"	234564980	[] 2 elements
3	ObjectId('65f0d986720fe3c9f5130ebb')	"Victor"	"M"	"AM"	987654321	[] 2 elements
4	ObjectId('65f0d986720fe3c9f5130ebc')	"Rosa"	"M"	"PM"	456234908	"badminton"
5	ObjectId('65f0d986720fe3c9f5130ebd')	"alberto"	"M"	"AM"	123456789	"tennis"
6	ObjectId('65f0d986720fe3c9f5130ebe')	"Emma"	"F"	"PM"	776655443	"indoor archery"
7	ObjectId('65f0d986720fe3c9f5130ebf')	"Hira"	"F"	[] 2 elements	246813579	[] 2 elements
8	ObjectId('65f0d986720fe3c9f5130eb0')	"Isha"	"F"	"PM"	135792468	"indoor archery"
9	ObjectId('65f0d986720fe3c9f5130eb1')	"Alice"	"M"	"AM"	2244668800	"badminton"
10	ObjectId('65f0d986720fe3c9f5130eb2')	"Deepali"	"F"	[] 2 elements	113355779	[] 2 elements