

Instituto Tecnológico y de Estudios Superiores de Monterrey

### Actividad. Instalación de Spark en AWS

# TC3007C.501 Inteligencia artificial avanzada para la ciencia de datos II

#### **Profesores:**

Iván Mauricio Amaya Contreras
Blanca Rosa Ruiz Hernández
Félix Ricardo Botello Urrutia
Edgar Covantes Osuna
Felipe Castillo Rendón
Hugo Terashima Marín

#### Alumno:

Alberto H Orozco Ramos - Aoo831719

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Se instalará Spark en una instancia EC2 de AWS acorde a lo visto en clase y se entregará lo siguiente para comprobar su instalación correcta.

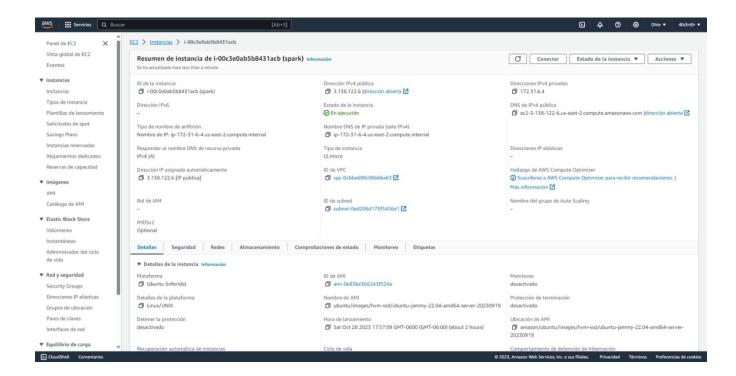
 Impresión de pantalla del listado de instancias de EC2 de AWS en donde se muestre la instancia creada.



2. Impresión de pantalla conectado al servidor ya sea por Terminal o Putty, ya una vez dentro, ejecutar el comando Is -l para la toma de la impresión de pantalla.

```
(base) ubuntu@ip-172-31-6-4:~$ 1s -1
total 1517404
-rw-rw-r-- 1 ubuntu ubuntu 1153404010 Sep 29 15:47 Anaconda3-2023.09-0-Linux-x8
5_64.sh
diwxrwxr-x 32 ubuntu ubuntu 4096 Oct 29 00:35 anaconda3
irwxrwxr-x 2 ubuntu ubuntu 4096 Oct 29 00:57 certs
diwxr-xr-x 13 ubuntu ubuntu 4096 Sep 9 02:08 spark-3.5.0-bin-hadoop3
-rw-rw-r-- 1 ubuntu ubuntu 400395283 Sep 9 02:10 spark-3.5.0-bin-hadoop3.tgz
(base) ubuntu@ip-172-31-6-4:~$
```

3. Impresión de pantalla de la pestaña Detalles para que se vea la ip pública, la ip privada y el DNS público de la instancia (es necesario que la instancia esté Running).



4. Impresión de pantalla de la terminal o putty una vez que se ejecuta el comando jupyter notebook.

```
Chase) whintu@3p-172-31-6-4:-$ jupyter notebook

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.

https://jupyter-notebook.readthedocs.lo/em/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

[W 01:03:14.075 NotebookApp] WARMING: The notebook server is listening on all IP addresses and not using encryption. This is not recommended.

[W 01:03:14.075 NotebookApp] WARMING: The notebook server is listening on all IP addresses and not using encryption. This is not recommended.

[W 02:03-10-29 01:03:14.395 Labbapp] in the server is listening on all IP addresses and not using encryption. This is not recommended.

[W 02:03-10-29 01:03:14.395 Labbapp] in the server is listening on all IP addresses and not using encryption. This config will be passed to ServerApp. Be sure to update your config before our next release.

[W 02:03-10-29 01:03:14.395 Labbapp] in the server is update your config before our next release.

[W 02:03-10-29 01:03:14.395 Labbapp] in the server is update your config before our next release.

[W 02:03-10-29 01:03:14.395 Labbapp] in the server is update your config before our next release.

[W 02:03-10-29 01:03:14.395 Labbapp] in the server is update your config before our next release.

[W 02:03-10-29 01:03:14.395 Labbapp] year: has moved from NotebookApp to ServerApp.

D. This config will be passed to ServerApp. Be sure to update your config before our next release.

[W 02:03-10-29 01:03:14.395 Labbapp] upperLab extension loaded from /home/ubuntu/Anacondas/lub/pythons.11/site-packages/jupyterlab

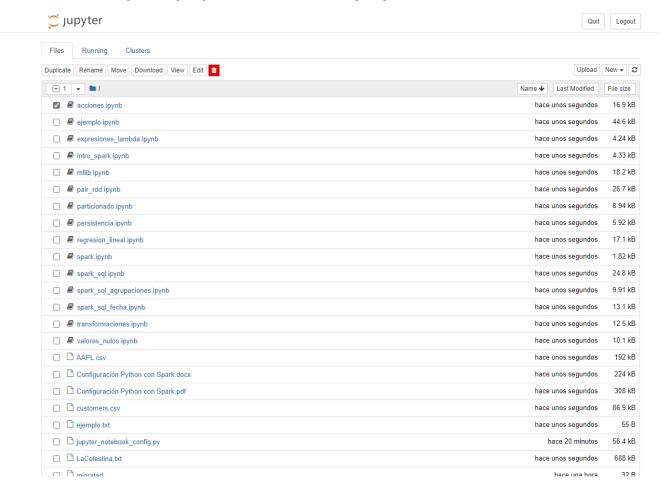
II 01:03:15.698 NotebookApp] Serving notebooks from loaded from /home/ubuntu/Anacondas/Abharc/Jupyter/lab

II 01:03:15.698 NotebookApp] Serving notebooks from load directory: /home/ubuntu/Anacondas/Abharc/Jupyter/lab serverApp.

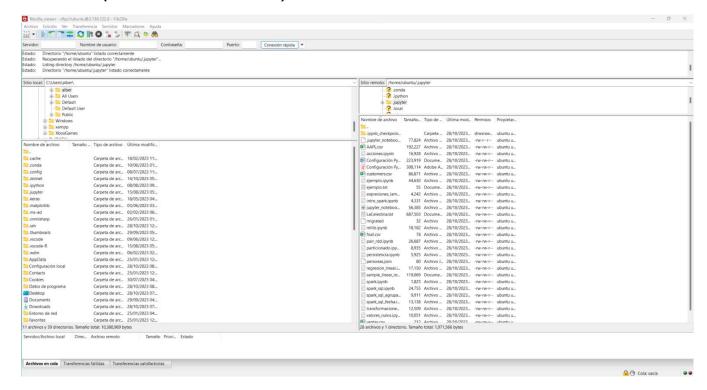
II 01:03:15.702 NotebookApp] Or http://127-0.0.1:8888/Token-4cn870a222ec73b006 falbo023ib7lasbbdf52a56a3bac0

II 01:03:15.702 NotebookApp] Or http:
```

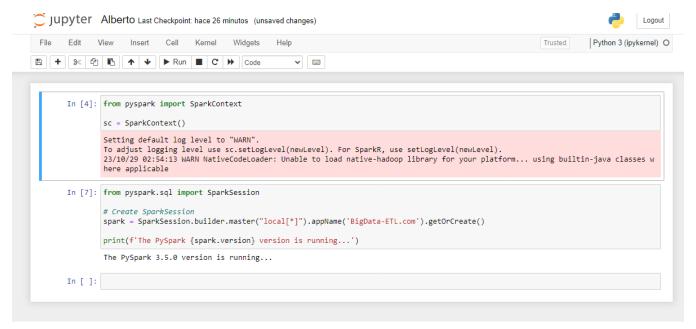
## 5. Impresión de pantalla de jupyter notebook visualizando el listado de los notebooks que se proporcionaron como ejemplos.



6. Impresión de pantalla de la conexión abierta al servidor utilizando Cyberduck o Filezilla (ver listado de archivos).



7. Crear un notebook con su nombre y colocar el llamado a Pyspark para visualizar la versión instalada.



Todas las impresiones de pantalla se entregarán en un zip o en un documento de Word