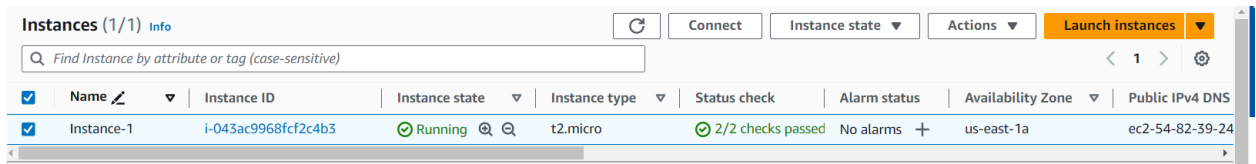


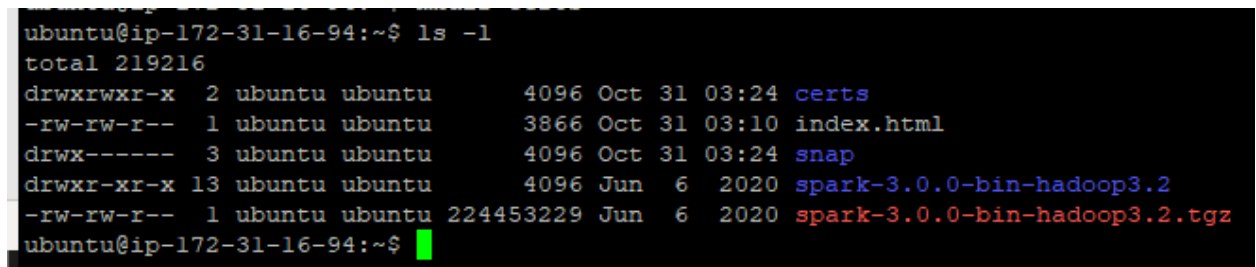
Instalación de Spark en AWS

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



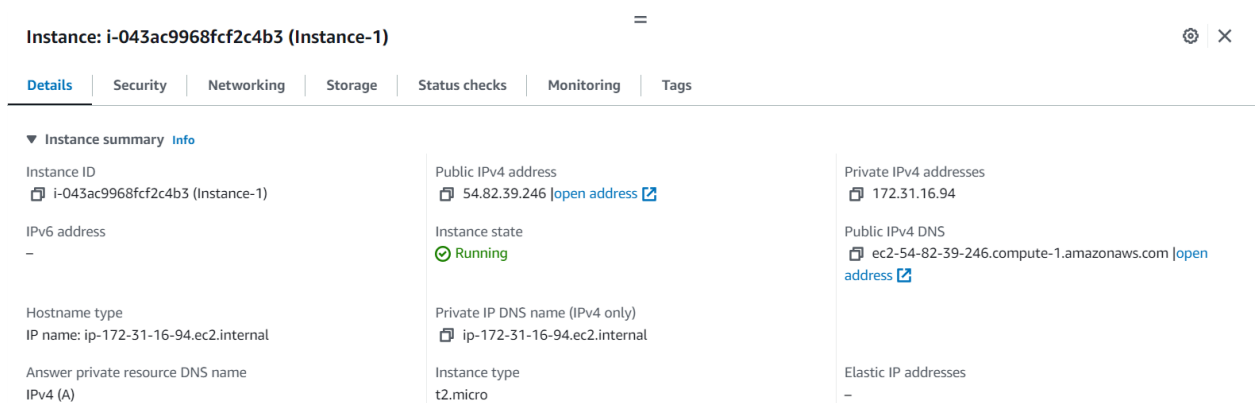
Instances (1/1) Info							
Find Instance by attribute or tag (case-sensitive)							
<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Public IPv4 DNS
<input checked="" type="checkbox"/>	Instance-1	i-043ac9968fcf2c4b3	Running	t2.micro	2/2 checks passed	No alarms	ec2-54-82-39-24

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



```
ubuntu@ip-172-31-16-94:~$ ls -l
total 219216
drwxrwxr-x  2 ubuntu ubuntu    4096 Oct 31 03:24 certs
-rw-rw-r--  1 ubuntu ubuntu    3866 Oct 31 03:10 index.html
drwx-----  3 ubuntu ubuntu    4096 Oct 31 03:24 snap
drwxr-xr-x 13 ubuntu ubuntu    4096 Jun  6 2020 spark-3.0.0-bin-hadoop3.2
-rw-rw-r--  1 ubuntu ubuntu 224453229 Jun  6 2020 spark-3.0.0-bin-hadoop3.2.tgz
ubuntu@ip-172-31-16-94:~$
```

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).



Instance: i-043ac9968fcf2c4b3 (Instance-1)		
Details	Security	Networking
▼ Instance summary Info		
Instance ID i-043ac9968fcf2c4b3 (Instance-1)	Public IPv4 address 54.82.39.246 open address	Private IPv4 addresses 172.31.16.94
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-82-39-246.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-16-94.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-16-94.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	

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

```

ubuntu@ip-172-31-16-94:~$ jupyter notebook
[I 03:43:49.067 NotebookApp] Writing notebook server cookie secret to /run/user/1000/snap.jupyter/jupyter/notebook_cookie_secret
[I 03:43:50.861 NotebookApp] Serving notebooks from local directory: /home/ubuntu
[I 03:43:50.862 NotebookApp] The Jupyter Notebook is running at:
[I 03:43:50.862 NotebookApp] http://localhost:8888/?token=206751fe63f9f42d02a67f36536b5e32d96dde87dc96613a
[I 03:43:50.862 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 03:43:50.867 NotebookApp] No web browser found: could not locate runnable browser.
[C 03:43:50.867 NotebookApp]

To access the notebook, open this file in a browser:
file:///run/user/1000/snap.jupyter/jupyter/nbserver-5160-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=206751fe63f9f42d02a67f36536b5e32d96dde87dc96613a

```

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

Profesor, ya no pude hacer estos incisos, no logré acceder de forma exitosa a jupyter notebook desde un navegador, sin embargo si pude crear el servidor de jupyter notebook.

```

ubuntu@ip-172-31-16-94:~/snap/jupyter/6/jupyter$ jupyter notebook
[I 2023-10-31 05:51:00.421 ServerApp] Package notebook took 0.0000s to import
[I 2023-10-31 05:51:00.633 ServerApp] Package jupyter_lsp took 0.0118s to import
[W 2023-10-31 05:51:00.633 ServerApp] A '_jupyter_server_extension_points' function was not found in jupyter_lsp. Instead, a '_jupyter_server_extension_paths' function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2023-10-31 05:51:00.680 ServerApp] Package jupyter_server_terminals took 0.0092s to import
[I 2023-10-31 05:51:00.640 ServerApp] Package jupyterlab took 0.0000s to import
[I 2023-10-31 05:51:00.674 ServerApp] Package notebook_shim took 0.0000s to import
[W 2023-10-31 05:51:00.674 ServerApp] A '_jupyter_server_extension_points' function was not found in notebook_shim. Instead, a '_jupyter_server_extension_paths' function was found and will be used for now. This function name will be deprecated in future releases of Jupyter Server.
[I 2023-10-31 05:51:00.675 ServerApp] jupyter_lsp | extension was successfully linked.
[I 2023-10-31 05:51:00.680 ServerApp] jupyter_server_terminals | extension was successfully linked.
[I 2023-10-31 05:51:00.686 ServerApp] jupyterlab | extension was successfully linked.
[I 2023-10-31 05:51:00.692 ServerApp] notebook | extension was successfully linked.
[I 2023-10-31 05:51:00.943 ServerApp] notebook_shim | extension was successfully linked.
[I 2023-10-31 05:51:00.961 ServerApp] notebook_shim | extension was successfully loaded.
[I 2023-10-31 05:51:00.964 ServerApp] jupyter_lsp | extension was successfully loaded.
[I 2023-10-31 05:51:00.966 ServerApp] jupyter_server_terminals | extension was successfully loaded.
[I 2023-10-31 05:51:00.968 ServerApp] jupyterlab | extension was successfully loaded.
[I 2023-10-31 05:51:00.968 LabApp] JupyterLab extension loaded from /home/ubuntu/.local/lib/python3.10/site-packages/jupyterlab
[I 2023-10-31 05:51:00.968 LabApp] JupyterLab application directory is /home/ubuntu/.local/share/jupyter/lab
[I 2023-10-31 05:51:00.969 LabApp] Extension Manager is 'pypi'.
[I 2023-10-31 05:51:00.972 ServerApp] jupyterlab | extension was successfully loaded.
[I 2023-10-31 05:51:00.976 ServerApp] notebook | extension was successfully loaded.
[I 2023-10-31 05:51:00.976 ServerApp] Serving notebooks from local directory: /home/ubuntu/snap/jupyter/6/.jupyter
[I 2023-10-31 05:51:00.976 ServerApp] Jupyter Server 2.9.1 is running at:
[I 2023-10-31 05:51:00.977 ServerApp] http://localhost:8888/?token=149e9345536144d5af12dd6b73519a240e1f406eea47215b
[I 2023-10-31 05:51:00.977 ServerApp] http://127.0.0.1:8888/?token=149e9345536144d5af12dd6b73519a240e1f406eea47215b
[I 2023-10-31 05:51:00.977 ServerApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 2023-10-31 05:51:00.981 ServerApp] No web browser found: Error('could not locate runnable browser').
[C 2023-10-31 05:51:00.981 ServerApp]

To access the server, open this file in a browser:
file:///home/ubuntu/.local/share/jupyter/runtime/jpserver-6465-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=149e9345536144d5af12dd6b73519a240e1f406eea47215b
http://127.0.0.1:8888/?token=149e9345536144d5af12dd6b73519a240e1f406eea47215b
[I 2023-10-31 05:51:01.002 ServerApp] Skipped non-installed server(s): bash-language-server, dockerfile-language-server-nodejs, javascript-typescript-langserver, jedi-language-server, julia-language-server, pyright, python-language-server, python-lsp-server, r-languageserver, sql-language-server, texlab, typescript-language-server, unified-language-server, vscode-css-language-server-bin, vscode-html-languageserver-bin, vscode-json-languageserver-bin, yamll-language-server

```

Intenté cambiando las reglas de seguridad del grupo de seguridad de la instancia EC2, cambie el jupyter notebook —generate-config, y varias cosas más, sin embargo cuando trato de usar la url que se me da, cambiando el localhost por mi Public IPv4 DNS tampoco sirve, dice que se rechazó la conexión, seguiré trabajando para completar el trabajo, sin embargo esto es lo que puedo entregar por el momento antes de que se cierre la entrega, adjuntare la versión terminada en los comentarios de esta tarea lo más pronto posible.

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.