

Campus Monterrey

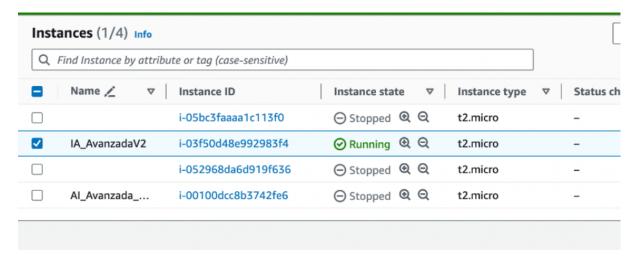
Inteligencia artificial avanzada para la ciencia de datos II (Gpo 501)

Instalación de Spark en AWS

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A01752030

1.- 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 ls -l para la toma de la impresión de pantalla.

```
(base) alfredogarcia@Alfredos-MacBook-Pro-2 ~ % clc
zsh: command not found: clc
(base) alfredogarcia@Alfredos-MacBook-Pro-2 ~ % chmod 400 Desktop/llaves_ec2_bigdata.pem
(base) alfredogarcia@Alfredos-MacBook-Pro-2 ~ % ssh -i Desktop/llaves_ec2_bigdata.pem ubuntu@3.141.21.101
The authenticity of host '3.141.21.101 (3.141.21.101)' can't be established.
ED25519 key fingerprint is SHA256:CcKrNzq5pvuX/Ib9YblplTsxjIWw7qmrXYsCxcktVJw.
This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.141.21.101' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1012-aws x86_64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
  System information as of Tue Oct 31 03:44:26 UTC 2023

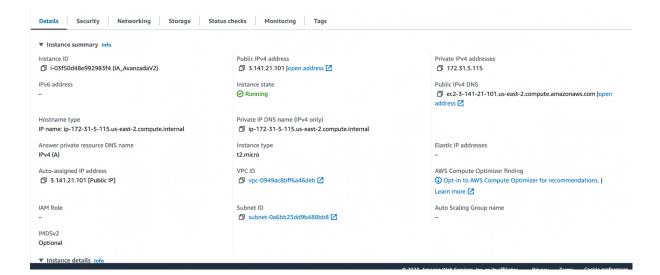
      System load:
      0.30126953125
      Processes:
      102

      Usage of /:
      5.4% of 28.89GB
      Users logged in:
      0

      Memory usage:
      22%
      IPv4 address for eth0:
      172.31.5.115

  Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-5-115:~$
```

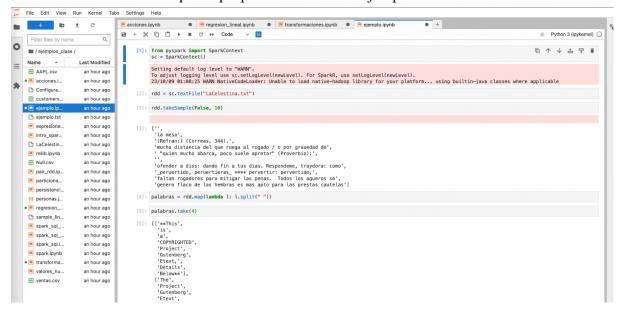
3.- Impresión de pantalla de la pestaña Detalles para que se vea la ip pública, la ip privada y el DNS público de la instancia (es necesario que la instancia esté Running).



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

```
[ubuntu@ip-172-31-5-115:-$ ls -l
total 0
[ubuntu@ip-172-31-5-115:-$ jupyter notebook
Command 'jupyter' not found, but can be installed with:
sudo snap install jupyter  # version 1.0.0, or
sudo apt install jupyter-core  # version 4.9.1-1
See 'snap info jupyter' for additional versions.
[ubuntu@ip-172-31-5-115:-$ sudo snap install jupyter
jupyter 1.0.0 from Jupyter Project (projectjupyter*) installed
[ubuntu@ip-172-31-5-115:-$ jupyter notebook
[I 03:48:26.492 NotebookApp] Writing notebook server cookie secret to /run/user/1000/snap.jupyter/jupyter/notebook_cookie_secret
[I 03:48:28.252 NotebookApp] Serving notebooks from local directory: /home/ubuntu
[I 03:48:28.252 NotebookApp] The Jupyter Notebook is running at:
[I 03:48:28.252 NotebookApp] http://localhost:8888/?token=5411352600fb32d709af2ff6e1710d5c84139f7a562ed11b
[I 03:48:28.253 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 03:48:28.258 NotebookApp] No web browser found: could not locate runnable browser.
[C 03:48:28.258 NotebookApp] No web browser found: could not locate runnable browser.
file://run/user/1000/snap.jupyter/jupyter/nbserver-1427-open.html
Or copy and paste one of these URLs:
    http://localhost:8888/?token=5411352600fb32d709af2ff6e1710d5c84139f7a562ed11b
```

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.

