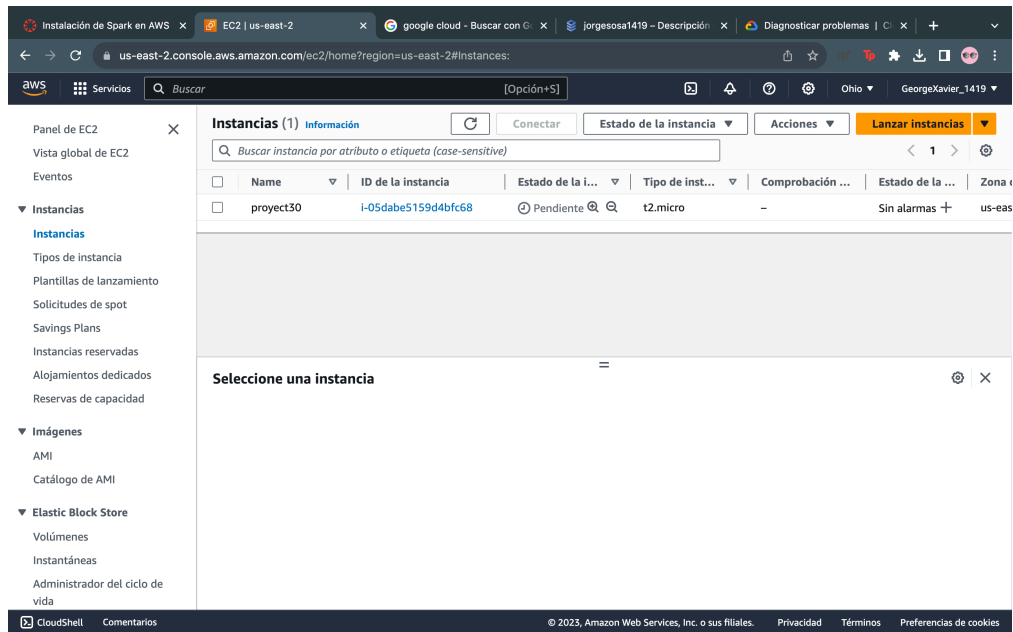


Big Data
Jorge Sosa
October 29, 2023

Spark en AWS



```
[
  [-i identity_file] [-J [user@]host[:port]] [-L address]
  [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
  [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
  [-w local_tun[:remote_tun]] destination [command]
MacBook-Pro-de-Jorge-Sosa% ssh -i "/Users/jorgesosa/Downloads/key.pem" ubuntu@ec2-3-145-8-286.us-east-2.compute.amazonaws.com
Warning: Identity file key.pem not accessible: No such file or directory.
The authenticity of host 'ec2-3-145-8-286.us-east-2.compute.amazonaws.com (3.145.8.286)' can't be established.
ECDSA key fingerprint is SHA256:yr8yJpg6UG/KLZkyJSF50oVyc+OcQpEzC+pbHYztVZQ.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-3-145-8-286.us-east-2.compute.amazonaws.com' (ECDSA) to the list of known hosts.
ubuntu@ec2-3-145-8-286.us-east-2.compute.amazonaws.com: Permission denied (publickey).
MacBook-Pro-de-Jorge-Sosa% ssh -i "/Users/jorgesosa/Downloads/key.pem" ubuntu@ec2-3-145-8-286.us-east-2.compute.amazonaws.com
usage: ssh [-b bind_address] [-C cipher_spec] [-D [bind_address]:port]
           [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]
           [-i identity_file] [-J [user@]host[:port]] [-L address]
           [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
           [-Q query_option] [-R address] [-S ctl_path] [-w host:port]
           [-w local_tun[:remote_tun]] destination [command]
MacBook-Pro-de-Jorge-Sosa% ssh -i "/Users/jorgesosa/Downloads/key.pem" ubuntu@ec2-3-145-8-286.us-east-2.compute.amazonaws.com
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 Wed Oct 25 21:06:31 UTC 2023

System load:  0.680078125      Processes:    96
Usage of /:   5.4% of 28.89GB   Users logged in:  0
Memory usage: 21%             IPv4 address for eth0: 172.31.8.95
Swap usage:   0%

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-172-31-8-95:~$ ]
```

Instalación de x Configuración x Instancias | E x google cloud x jorgesosa141 x Diagnosticar x Diagnosticar x Instalación de x +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

aws Servicios Buscar [Opción+S]

Nombre ID de la instancia Estado de la l... Tipo de inst... Comprobación ... Estado de la ... Zona de dispon... DNS de IPv4

Instancia: i-05dabe5159d4bfc68 (proyect30)

▼ Resumen de instancia Información

ID de la instancia
i-05dabe5159d4bfc68 (proyect30)

Dirección IPv6
-

Tipo de nombre de anfitrión
Nombre de IP: ip-172-31-8-95.us-east-2.compute.internal

Responder al nombre DNS de recurso privado
IPv4 (A)

Dirección IP asignada automáticamente
3.145.8.206 [IP pública]

Dirección IPv4 pública
3.145.8.206 [dirección abierta]

Estado de la instancia
En ejecución

Nombre DNS de IP privada (solo IPv4)
ip-172-31-8-95.us-east-2.compute.internal

Tipo de instancia
t2.micro

ID de VPC
vpc-066ec71c45e2954f0

Direcciones IPv4 privadas
172.31.8.95

DNS de IPv4 pública
ec2-3-145-8-206.us-east-2.compute.amazonaws.com [dirección abierta]

Direcciones IP elásticas
-

Hallazgo de AWS Compute Optimizer
Suscribirse a AWS Compute Optimizer para recibir recomen

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Instalación de x Configuración x Instancias | E x google cloud x jorgesosa141 x Diagnosticar x Diagnosticar x Instalación de x +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

aws Servicios Buscar [Opción+S]

Nombre ID de la instancia Estado de la l... Tipo de inst... Comprobación ... Estado de la ... Zona de dispon... DNS de IPv4

Instancia: i-05dabe5159d4bfc68 (proyect30)

Dirección IP asignada automáticamente
3.145.8.206 [IP pública]

Rol de IAM
-

IMDSv2
Optional

▼ Detalles de la instancia Información

Plataforma
Ubuntu (inferido)

Detalles de la plataforma

ID de VPC
vpc-066ec71c45e2954f0

ID de subred
subnet-0b7ce5f679e217c4a

ID de AMI
ami-0e83be366243f524a

Nombre de AMI

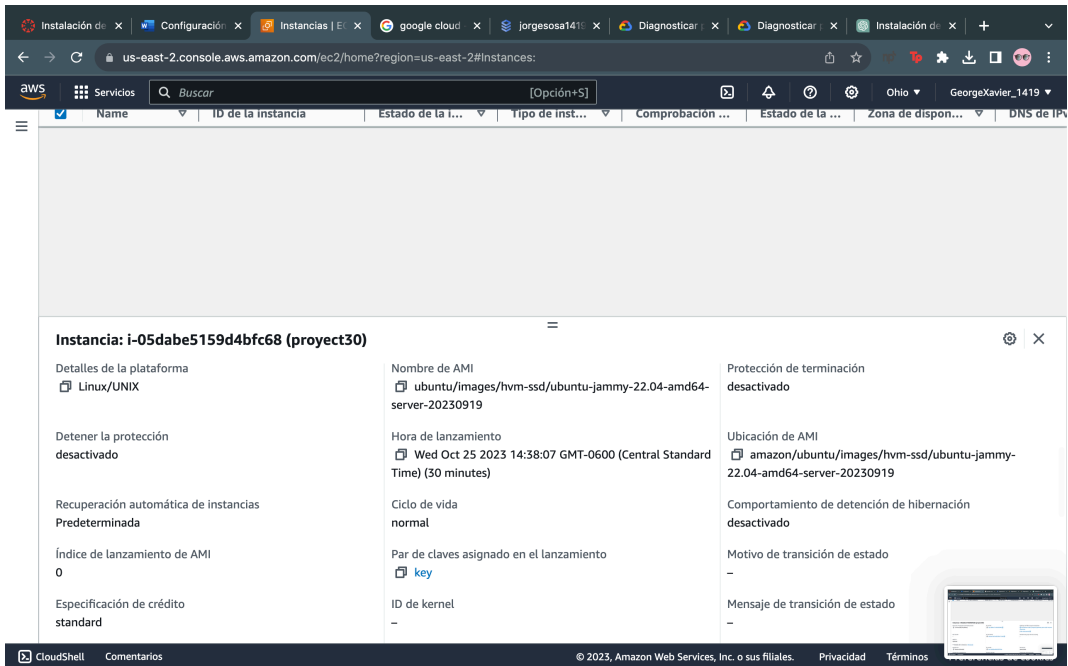
Hallazgo de AWS Compute Optimizer
Suscribirse a AWS Compute Optimizer para recibir recomendaciones.
[Más información]

Nombre del grupo de Auto Scaling
-

Monitoreo
desactivado

Protección de terminación

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```
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The scripts jupyter, jupyter-migrate and jupyter-troubleshoot are installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The scripts jupyter-kernel, jupyter-kernelspec and jupyter-run are installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The scripts ipython and ipython3 are installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script jupyter-trust is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script jupyter-console is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script jupyter-execute is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script jupyter-events is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The scripts jupyter-dejavu and jupyter-nbconvert are installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script jupyter-server is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The scripts jupyterlab, jupyterlabextension and jupyterlabhub are installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script jupyter-notebook is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed anyio-4.0.0 argon2-cffi-23.1.0 argon2-cffi-bindings-21.2.0 arrow-1.3.0 asttokens-2.4.0 async-lru-2.0.4 attrs-23.1.0 backcall-0.2.0 beautifulsoup4-4.12.2 bleach-6.1.0 cffi-1.16.0 charset-normalizer-3.3.1 comm-0.1.4 debugpy-1.8.0 decorator-5.1.1 defusedxml-0.7.1 exceptiongroup-1.1.3 executing-2.0.0 fastjsonschema-2.18.1 fqn-1.5.1 ipkernel-6.26.0 ipython-8.16.1 ipython-normalizers-0.2.0 ipywidgets-8.1.1 isoduration-20.11.0 jedi-0.19.1 json5-0.9.14 jsonschema-4.19.1 jsonschema-specifications-2023.7.1 jupyter-1.0.0 jupyter-client-8.5.0 jupyter-console-6.6.3 jupyter-core-5.4.0 jupyter-events-0.8.0 jupyter-lsp-2.2.0 jupyter-server-2.9.1 jupyter-server-terminals-0.4.4 jupyterlab-4.0.7 jupyterlab-pygments-0.2.2 jupyterlab-server-2.25.0 jupyterlab-widgets-3.0.9 matplotlib-inline-0.1.6 mistune-3.0.2 nbclient-0.8.0 nbconvert-7.9.2 nbformat-5.9.2 nest-asyncio-1.5.8 notebook-7.0.6 notebook-nbm-0.2.3 overrides-7.4.0 packaging-23.2 pandocfilters-1.5.0 parso-0.8.3 pickleshare-0.7.5 platformdirs-3.11.0 prometheus-client-0.17.1 prompt-toolkit-3.0.39 psutil-5.9.6 pure-eval-0.2.2 pycparser-2.21 pygments-2.16.1 python-dateutil-2.8.2 python-json-logger-2.0.7 pyzmq-25.1.1 qtconsole-5.4.4 qtpy-2.4.1 referencing-0.30.2 requests-2.31.0 rfc3339-validator-0.1.4 rfc3986-validator-0.1.1 rpds-py-0.10.6 send2trash-1.8.2 sniffio-1.3.0 soupsieve-2.5 stack-data-0.6.3 terminado-0.17.1 tinycss2-1.2.1 tomli-2.0.1 tornado-6.3.3 traitlets-5.12.0 types-python-dateutil-2.8.19.14 typing-extensions-4.8.0 uri-template-1.3.0 wcwidth-0.2.8 webcolors-1.13 webencodings-0.5.1 websocket-client-1.6.4 widgetsnbextension-4.0.9
ubuntu@ip-172-31-8-98:~$ 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-172-31-8-98:~$ sudo snap install jupyter
jupyter 1.0.0 from Jupyter Project (projectjupyter) installed
ubuntu@ip-172-31-8-98:~$ jupyter notebook
[I 21:18:50.421 NotebookApp] Writing notebook server cookie secret to /run/user/1000/snap.jupyter/jupyter/notebook_cookie_secret
[I 21:18:52.439 NotebookApp] Serving notebooks from local directory: /home/ubuntu
[I 21:18:52.440 NotebookApp] The Jupyter Notebook is running at:
[I 21:18:52.440 NotebookApp] http://localhost:8888/?token=8403a92233dd7f3cdd28a83a4d061f398e391f5f781ff3eb
[I 21:18:52.440 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 21:18:52.447 NotebookApp] No web browser found: could not locate runnable browser.
[C 21:18:52.447 NotebookApp]

To access the notebook, open this file in a browser:
file:///run/user/1000/snap.jupyter/jupyter/nbserver-2988-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=8403a92233dd7f3cdd28a83a4d061f398e391f5f781ff3eb
```

```

ubuntu@ip-172-31-1-241: ~ — ssh -i ~/Downloads/key2.pem ubuntu@ec2-18-222-116-203.us-east-2.compute.amazonaws.com — 133x34
[
You must comply with all domestic and international export laws and regulations that apply to the software, which include restriction
is on destinations, end users, and end use.  Anaconda Distribution includes cryptographic software.  The country in which you currently
reside may have restrictions on the import, possession, use, and/or re-export to another country, of encryption software.  BEFORE usi
ng any encryption software, please check your country's laws, regulations and policies concerning the import, possession, or use, and
re-export of encryption software, to see if this is permitted.  See the Wassenaar Arrangement http://www.wassenaar.org/ for more info
rmation.
[
Anaconda has self-classified this software as Export Commodity Control Number (ECCN) EAR99 which includes mass market information sec
urity software using or performing cryptographic functions with asymmetric algorithms.  No license is required for export of this soft
ware to non-embargoed countries.
[
The Intel Math Kernel Library contained in Anaconda Distribution is classified by Intel as ECCN 5D992.c with no license required for
export to non-embargoed countries.
[
The following packages listed on https://www.anaconda.com/cryptography are included in the repository accessible through Anaconda Dis
tribution that relate to cryptography.
[
Last updated February 25, 2022
[

Do you accept the license terms? [yes|no]
[no] >>> yes

Anaconda3 will now be installed into this location:
/home/ubuntu/anaconda3

- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below

[/home/ubuntu/anaconda3] >>>
PREFIX=/home/ubuntu/anaconda3

```

```

ubuntu@ip-172-31-1-241: ~/jupyter — ssh -i ~/Downloads/key2.pem ubuntu@ec2-18-222-116-203.us-east-2.compute.amazonaws.com — 1...
# TerminalManager(LoggingConfigurable) configuration
#-----
##

## Timeout (in seconds) in which a terminal has been inactive and ready to be culled.
# Values of 0 or lower disable culling.
# Default: 0
# c.TerminalManager.cull_inactive_timeout = 0

## The interval (in seconds) on which to check for terminals exceeding the
# inactive timeout value.
# Default: 300
#c.TerminalManager.cull_interval = 300

c = get_config()

# Notebook config this is where you saved your pem cert

# c.NotebookApp.certfile = u'/home/ubuntu/certs/mycert.pem'
# Run on all IP addresses of your instance
c.NotebookApp.ip = '0.0.0.0'
c.NotebookApp.allow_origin = '*'
c.NotebookApp.token = '12345'
# Do not open browser by default
c.NotebookApp.open_browser = False

# Fix port to 8888

c.NotebookApp.port = 8888

# c.NotebookApp.browser = '/usr/bin/google-chrome-stable'

-- INSERT --
1462,1 Bot

```

