

Nome: Thales Gabriel de Souza Oliveira  
RA:324160733

## 1) Iniciando o Lab:

Start Lab

Region: us-east-1

Lab ID: arn:aws:cloudformation:us-east-1:82717776496:stack/c183209a4717025112032108tlw82717776496/4d9ec5c0-caf3-11f0-b11f-120777143c8f

Creation Time: 2025-11-26T10:11:17-0800

Start session at: 2025-11-26 10:11:19

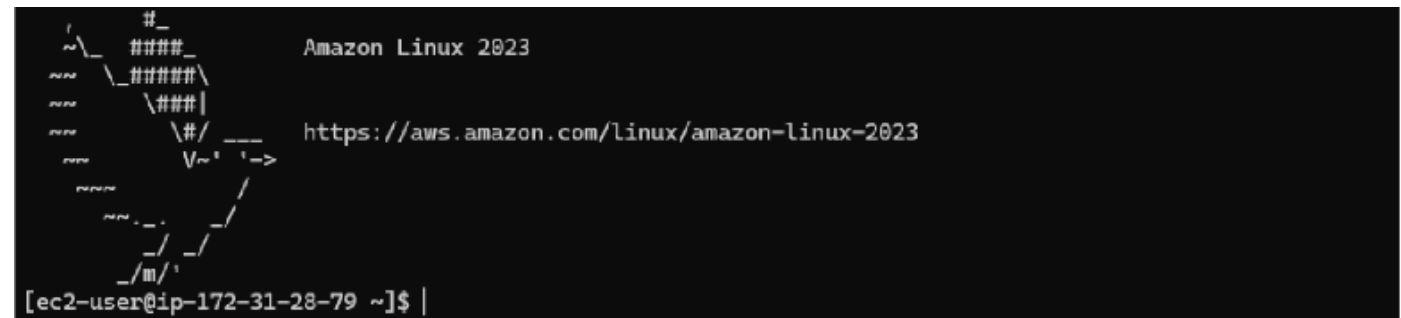
Remaining session time: 03:00:00(180 minutes)

Lab status: in creation

## 2) Criando nova instância:

	Name	ID da instância	Estado da inst...	Tipo de inst...	Verificação de sta...	Status do alarm	Zona de dispon...	DNS IPv4 público	Endereço IP...	IP elástico	IPs IPv6	Monitor
<input checked="" type="checkbox"/>	vmpython	i-04dc3801cd2fb62a	Executando	t2.micro	2/2 verificações a	Exibir alarmes +	us-east-1d	ec2-13-217-228-19.co...	13.217.228.19	--	--	desblo...
<input type="checkbox"/>	Baselion Host	i-08a771b3155f370c2	Executando	t2.micro	2/2 verificações a	Exibir alarmes +	us-east-1a	ec2-34-239-45-89.com...	34.239.45.89	--	--	desblo...

## 3) Conectando as Instâncias



## 4) Docker instalado

```
Running scriptlet: container-selinux-4:2.242.0-1.amzn2023.noarch
Running scriptlet: docker-25.0.13-1.amzn2023.0.2.x86_64
Installing      : docker-25.0.13-1.amzn2023.0.2.x86_64
Running scriptlet: docker-25.0.13-1.amzn2023.0.2.x86_64
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.

Running scriptlet: container-selinux-4:2.242.0-1.amzn2023.noarch
Running scriptlet: docker-25.0.13-1.amzn2023.0.2.x86_64
Verifying      : container-selinux-4:2.242.0-1.amzn2023.noarch
Verifying      : containerd-2.1.4-1.amzn2023.0.2.x86_64
Verifying      : docker-25.0.13-1.amzn2023.0.2.x86_64
Verifying      : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
Verifying      : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
Verifying      : libcgrouper-3.0-1.amzn2023.0.1.x86_64
Verifying      : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
Verifying      : libnftnl-1.0.1-19.amzn2023.0.2.x86_64
Verifying      : libnftnl-1.2.2-2.amzn2023.0.2.x86_64
Verifying      : pigz-2.5-1.amzn2023.0.3.x86_64
Verifying      : runc-1.3.3-2.amzn2023.0.1.x86_64

Installed:
  container-selinux-4:2.242.0-1.amzn2023.noarch
  docker-25.0.13-1.amzn2023.0.2.x86_64
  iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
  libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
  libnftnl-1.2.2-2.amzn2023.0.2.x86_64
  runc-1.3.3-2.amzn2023.0.1.x86_64
  containerd-2.1.4-1.amzn2023.0.2.x86_64
  iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
  libcgrouper-3.0-1.amzn2023.0.1.x86_64
  libnftnl-1.0.1-19.amzn2023.0.2.x86_64
  pigz-2.5-1.amzn2023.0.3.x86_64

Complete!
```

## 5) Instalando python e frameworks

```
Install 2 Packages

Total download size: 1.9 M
Installed size: 11 M
Is this ok [y/N]: y
Downloading Packages:
(1/2): libxcrypt-compat-4.4.33-7.amzn2023.x86_64.rpm          1.9 MB/s | 92 kB      00:00
(2/2): python3-pip-21.3.1-2.amzn2023.0.14.noarch.rpm        22 MB/s | 1.8 MB      00:00
-----
Total                                                         17 MB/s | 1.9 MB      00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing     : libxcrypt-compat-4.4.33-7.amzn2023.x86_64 1/2
  Installing     : python3-pip-21.3.1-2.amzn2023.0.14.noarch 2/2
  Running scriptlet: python3-pip-21.3.1-2.amzn2023.0.14.noarch 2/2
  Verifying      : libxcrypt-compat-4.4.33-7.amzn2023.x86_64 1/2
  Verifying      : python3-pip-21.3.1-2.amzn2023.0.14.noarch 2/2

Installed:
  libxcrypt-compat-4.4.33-7.amzn2023.x86_64          python3-pip-21.3.1-2.amzn2023.0.14.noarch
```

```
Collecting markupsafe>=2.1.1
  Downloading markupsafe-3.0.3-cp39-cp39-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (20 kB)
Collecting werkzeug>=3.1.0
  Downloading werkzeug-3.1.3-py3-none-any.whl (224 kB)
    |#####| 224 kB 61.1 MB/s
Collecting itsdangerous>=2.2.0
  Downloading itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Collecting click>=8.1.3
  Downloading click-8.1.8-py3-none-any.whl (98 kB)
    |#####| 98 kB 13.0 MB/s
Collecting importlib-metadata>=3.6.0
  Downloading importlib_metadata-8.7.0-py3-none-any.whl (27 kB)
Collecting blinker>=1.9.0
  Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
Collecting zipp>=3.20
  Downloading zipp-3.23.0-py3-none-any.whl (10 kB)
Installing collected packages: zipp, markupsafe, werkzeug, jinja2, itsdangerous, importlib-metadata, click, blinker, flask
Successfully installed blinker-1.9.0 click-8.1.8 flask-3.1.2 importlib-metadata-8.7.0 itsdangerous-2.2.0 jinja2-3.1.6 ma
rkupsafe-3.0.3 werkzeug-3.1.3 zipp-3.23.0

Attempting uninstall: markupsafe
Found existing installation: MarkupSafe 1.1.1
Uninstalling MarkupSafe-1.1.1:
Successfully uninstalled MarkupSafe-1.1.1
Attempting uninstall: jinja2
Found existing installation: Jinja2 2.11.3
Uninstalling Jinja2-2.11.3:
Successfully uninstalled Jinja2-2.11.3
Successfully installed blinker-1.9.0 click-8.1.8 flask-3.1.2 importlib-metadata-8.7.0 itsdangerous-2.2.0 jinja2-3.1.6 ma
rkupsafe-3.0.3 werkzeug-3.1.3 zipp-3.23.0
```

## 6) criando o diretório de Api

```
[ec2-user@ip-172-31-28-79 ~]$ mkdir projetos
[ec2-user@ip-172-31-28-79 ~]$ cd projetos
[ec2-user@ip-172-31-28-79 projetos]$ mkdir api
[ec2-user@ip-172-31-28-79 projetos]$ cd api
[ec2-user@ip-172-31-28-79 api]$ |
```

## 7) Colando e salvando no [main.py](#)

```
GNU nano 8.3 main.py
from flask import Flask
app = Flask(__name__)
@app.route('/api', methods=['GET'])
def handler():
    return 'Esta é a nossa API', 200
if __name__ == "__main__":
    app.run(host="0.0.0.0", port=int("5000"), debug=True)
```

8)modificando o requirements.txt

```
GNU nano 8.3 requirements.txt
click==8.1.8
docutils==0.16
Flask==3.1.2
gunicorn==23.0.0
importlib_metadata==8.7.0
itsdangerous==2.2.0
Jinja2==3.1.6
lockfile==0.12.2
MarkupSafe==3.0.3
PySocks==1.7.1
python-daemon==2.3.0
Werkzeug==3.1.3
zipp==3.23.0
```

10) Concluindo a build do docker

```
=> => transferring context: 2B 0.0s
=> [internal] load build context 0.0s
=> transferring context: 890B 0.0s
[1/4] FROM docker.io/library/python:3@sha256:edf6433343f65f94707985869aeaaf8beadaeae11c4bc82068fca52dce28dd 24.4s
=> resolve docker.io/library/python:3@sha256:edf6433343f65f94707985869aeaaf8beadaeae11c4bc82068fca52dce28dd 0.0s
=> sha256:edf6433343f65f94707985869aeaaf8beadaeae11c4bc82068fca52dce28dd 18.95kB / 18.95kB 0.0s
=> sha256:936d907e9a6c65749833463d200ff283faacfd603d458892d2e52215918dbb5d 6.49kB / 6.49kB 0.0s
=> sha256:53c88f1dfef79b2f207f7f1a03a45e0dc5ed208b9f496de16b98f81189dc0392 49.29MB / 49.29MB 1.4s
=> sha256:ff2e6e687b6ce78177a4cac678dd533c8e72b97469f030783b6bb491f681fd4c 67.78MB / 67.78MB 2.3s
=> sha256:da6cc0443346c30914c68d265b8dba465cb85708c572d97846122fd036edc003 2.32kB / 2.32kB 0.0s
=> sha256:eae668646f447b181fe300ae6756351b6167aa2578be449b167ba79ed4926798 25.61MB / 25.61MB 0.9s
=> sha256:7c40a3faff76845154c32b7b35d5535b201d3bd04f94a0c408f8e98f9ed98ad6 235.98MB / 235.98MB 5.7s
=> extracting sha256:53c88f1dfef79b2f207f7f1a03a45e0dc5ed208b9f496de16b98f81189dc0392 4.7s
=> sha256:85694cfea2c4d4d425b9947a149678940f0625182653d556ed9c541e0cb1f292 6.08MB / 6.08MB 1.7s
=> sha256:d7d82d76b698080549e693e4b53493dc29835ae4ac836fb2aa2d6ef513e9008c 29.22MB / 29.22MB 2.9s
=> sha256:50475ada0cb12c5af6c0c7c3188df0354108a5096b87a1ba0ca5a34e4e1150d3 250B / 250B 2.4s
=> extracting sha256:eae668646f447b181fe300ae6756351b6167aa2578be449b167ba79ed4926798 1.1s
=> extracting sha256:ff2e6e687b6ce78177a4cac678dd533c8e72b97469f030783b6bb491f681fd4c 3.6s
=> extracting sha256:7c40a3faff76845154c32b7b35d5535b201d3bd04f94a0c408f8e98f9ed98ad6 11.0s
=> extracting sha256:85694cfea2c4d4d425b9947a149678940f0625182653d556ed9c541e0cb1f292 0.4s
=> extracting sha256:d7d82d76b698080549e693e4b53493dc29835ae4ac836fb2aa2d6ef513e9008c 1.3s
=> extracting sha256:50475ada0cb12c5af6c0c7c3188df0354108a5096b87a1ba0ca5a34e4e1150d3 0.0s
=> [2/4] COPY . /work 0.1s
=> [3/4] WORKDIR /work 0.0s
=> [4/4] RUN pip3 install --no-cache-dir -r requirements.txt 6.0s
=> exporting to image 0.4s
=> exporting layers 0.4s
=> writing image sha256:057f1337b827821c624d2c10fdaf3e691aa33ff0e11afb9884eab11bcd2a2e04 0.0s
=> naming to docker.io/library/my.api 0.0s
[ec2-user@ip-172-31-28-79 api]$
```

## 12) Executando container

```
[ec2-user@ip-172-31-28-79 api]$ sudo docker run --name main -p 5000:5000 my-api
[2025-11-26 20:14:37 +0000] [8] [INFO] Starting gunicorn 23.0.0
[2025-11-26 20:14:37 +0000] [8] [INFO] Listening at: http://0.0.0.0:5000 (8)
[2025-11-26 20:14:37 +0000] [8] [INFO] Using worker: sync
[2025-11-26 20:14:37 +0000] [9] [INFO] Booting worker with pid: 9
[2025-11-26 20:14:37 +0000] [10] [INFO] Booting worker with pid: 10
```