



Atividade – 26/11/2025

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Prática 07 - Cloud AWS - Docker

```
ec2-user@ip-172-31-18-150:~$
Verifying      : docker-25.0.13-1.amzn2023.0.2.x86_64      3/11
Verifying      : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64  4/11
Verifying      : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64  5/11
Verifying      : libcgrou-3.0-1.amzn2023.0.1.x86_64        6/11
Verifying      : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64  7/11
Verifying      : libnftnl-1.0.1-19.amzn2023.0.2.x86_64     8/11
Verifying      : libnftnl-1.2.2-2.amzn2023.0.2.x86_64     9/11
Verifying      : pigz-2.5-1.amzn2023.0.3.x86_64          10/11
Verifying      : runc-1.3.3-2.amzn2023.0.1.x86_64         11/11

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
libcgrou-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!
ec2-user@ip-172-31-18-150 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
ec2-user@ip-172-31-18-150 ~]$ sudo docker info
Client:
Version:      25.0.13
Context:      default
Debug Mode:   false
Plugins:
buildx: Docker Buildx (Docker Inc.)
  Version:  0.12.1
  Path:     /usr/libexec/docker/cli-plugins/docker-buildx
```

```
ec2-user@ip-172-31-18-150:~$
Downloading click-8.1.8-py3-none-any.whl (98 kB)
| 98 kB 12.4 MB/s
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 markupsafe-3.0.3 werkzeug-3.1.3 zipp-3.23.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
ec2-user@ip-172-31-18-150 ~]$ sudo pip3 install gunicorn
collecting gunicorn
Downloading gunicorn-23.0.0-py3-none-any.whl (85 kB)
| 85 kB 5.9 MB/s
collecting packaging
Downloading packaging-25.0-py3-none-any.whl (66 kB)
| 66 kB 6.1 MB/s
Installing collected packages: packaging, gunicorn
Successfully installed gunicorn-23.0.0 packaging-25.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
```

```
[ec2-user@ip-172-31-18-150 ~]$ mkdir projetos
[ec2-user@ip-172-31-18-150 ~]$ cd projetos
[ec2-user@ip-172-31-18-150 projetos]$ mkdir api
[ec2-user@ip-172-31-18-150 projetos]$ cd api
[ec2-user@ip-172-31-18-150 api]$
```

```
ec2-user@ip-172-31-18-150:~/projetos/api
GNU nano 8.3 main.py Modified
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)
```

File Name to Write: main.py

^G Help	^M-D DOS Format	^M-A Append	^M-B Backup File
^C Cancel	^M-M Mac Format	^M-P Prepend	^T Browse

```
Selecionar ec2-user@ip-172-31-18-150:~/projetos/api
GNU nano 8.3 requirements.txt Modified
click==8.1.8
docutils==0.16
flask==3.1.2
unicorn==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
pip==3.23.0
```

^G Help	^O Write Out	^F Where Is	^K Cut	^T Execute	^C Location	^M-U Undo	^M-A Set Mark
^X Exit	^R Read File	^N Replace	^U Paste	^J Justify	^_ Go To Line	^M-E Redo	^M-G Copy

```
ec2-user@ip-172-31-18-150: ~/projetos/api
GNU nano 8.3 dockerfile Modified
FROM python:3
COPY . /work
WORKDIR /work
EXPOSE 5000
RUN pip3 install --no-cache-dir -r requirements.txt
CMD gunicorn --workers 2 --bind 0.0.0.0:5000 main:app_

^G Help      ^O Write Out  ^F Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^V Go To Line M-E Redo      M-G Copy

[ec2-user@ip-172-31-18-150 api]$ sudo docker run --name main -p 5000:5000 my-api
[2025-11-21 16:45:01 +0000] [7] [INFO] Starting gunicorn 23.0.0
[2025-11-21 16:45:01 +0000] [7] [INFO] Listening at: http://0.0.0.0:5000 (7)
[2025-11-21 16:45:01 +0000] [7] [INFO] Using worker: sync
[2025-11-21 16:45:01 +0000] [8] [INFO] Booting worker with pid: 8
[2025-11-21 16:45:01 +0000] [9] [INFO] Booting worker with pid: 9
```