

OdontoPrev

Entrega 2

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Links do projeto:

- Repositório: <https://github.com/NPaiffer/odontoprev-cs2-devops>

Inicialização da VM:

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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Advisor (1 of 1): Enable Trusted Launch foundational excellence, and modern security for Existing Generation 2 VM(s) →

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Essentials

Resource group (move) : rg-linux-cs-group-project

Status : Running

Location : Brazil South

Subscription (move) : 2TDSPA-RM554145-NICOLASCARMO

Subscription ID : 03878c10-19ed-46a6-a131-b2f4378546e1

Tags (edit) : Add tags

Operating system : Linux (almalinux 9.4)

Size : Standard B1s (1 vcpu, 1 GiB memory)

Public IP address : 191.234.209.230

Virtual network/subnet : vmmk-odonto-cs-vnet/default

DNS name : Not configured

Health state : -

Time created : 11/6/2024, 11:35 AM UTC

Copy to clipboard

JSON View

Properties

Monitoring

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Recommendations (1)

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Virtual machine

Computer name : vmmk-odonto-cs

Operating system : Linux (almalinux 9.4)

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.12.0.2

Hibernation : Disabled

Networking

Public IP address : 191.234.209.230 (Network interface vmmk-odonto-cs286)

Public IP address (IPv6) : -

Private IP address : 10.1.1.4

Private IP address (IPv6) : -

Virtual network/subnet : vmmk-odonto-cs-vnet/default

DNS name : Configure

Size

Inicialização da VM:

```
PS C:\Users\nicpa\OneDrive\Desktop\cs_devops2> ssh -i ~/.ssh/id_rsa.pem RM554145@191.234.209.230
Warning: Identity file C:\Users\nicpa/.ssh/id_rsa.pem not accessible: No such file or directory.
RM554145@191.234.209.230's password:
Last login: Fri Nov  8 00:57:31 2024 from 187.122.61.21
[RM554145@vmmk-odonto-cs ~]$
```

- `sudo dnf update -y`
- `sudo dnf install -y dnf-plugins-core`
- `sudo dnf config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo`
- `sudo dnf install docker-ce docker-ce-cli containerd.io -y`
- `sudo systemctl start docker`
- `sudo systemctl enable docker`

Arquivo Dockerfile:

GNU nano 5.6.1

Dockerfile

Modified

```
FROM python:3.9-slim
```

```
RUN useradd -ms /bin/bash dockeruser  
USER dockeruser
```

```
WORKDIR /app  
COPY . .
```

```
RUN pip install -r requirements.txt  
CMD ["python", "app.py"]
```

```
COPY requirements.txt /app/  
RUN pip install -r requirements.txt
```

File to insert [from ./]:

^G Help

M-F New Buffer

^X Execute Command

^C Cancel

M-N No Conversion

^T Browse

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M-F New Buffer

^X Execute Command

^C Cancel

M-N No Conversion

^T Browse

Arquivo docker-compose.yml:

```
GNU nano 5.6.1 docker-compose.yml
services:
  app:
    build: .
    ports:
      - "80:80"
    user: "dockeruser"
    restart: always
```

[Read 8 lines]

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

Arquivo requirements.txt:

```
GNU nano 5.6.1 requirements.txt
flask==3.0.3
Werkzeug==3.0.3
requests==2.32.3
numpy==2.0.2
pandas==2.2.3
scipy==1.13.1
scikit-learn==1.5.0

```

[Read 7 lines]

^G Help
^X Exit

^O Write Out
^R Read File

^W Where Is
^I Replace

^K Cut
^U Paste

^T Execute
^J Justify

^C Location
^_ Go To Line

M-U Undo
M-E Redo

M-A Set Mark
M-G Copy

M-] To Bracket
^Q Where Was

docker-compose build

```
[RM554145@vmmk-odonto-cs ~]$ docker-compose build
[+] Building 63.2s (13/13) FINISHED
=> [app internal] load build definition from Dockerfile
=> => transferring dockerfile: 323B
=> [app internal] load metadata for docker.io/library/python:3.9-slim
=> [app internal] load .dockerignore
=> => transferring context: 2B
=> [app 1/7] FROM docker.io/library/python:3.9-slim@sha256:7a9cd42706c174cdcf578880ab9ae3b6551323a7ddbc2a89ad6e5b20a28fbfbe
=> [app internal] load build context
=> => transferring context: 5.91kB
=> CACHED [app 2/7] RUN useradd -ms /bin/bash dockeruser
=> CACHED [app 3/7] WORKDIR /app
=> [app 4/7] COPY . .
=> [app 5/7] RUN pip install -r requirements.txt
=> [app 6/7] COPY requirements.txt /app/
=> [app 7/7] RUN pip install -r requirements.txt
=> [app] exporting to image
=> => exporting layers
=> => writing image sha256:facebaad3cd070adfe0aeeaef0396c7f093054e415e00ea44aa43b7416dbc881
=> => naming to docker.io/library/rm554145-app
```

docker-compose up
docker-compose logs

```
[RM554145@vmmk-odonto-cs ~]$ docker-compose up
[+] Running 2/2
 ✓ Network rm554145_default Created
 ✓ Container rm554145-app-1 Created
Attaching to app-1
app-1 | * Serving Flask app 'app'
app-1 | * Debug mode: off
app-1 | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
app-1 | * Running on all addresses (0.0.0.0)
app-1 | * Running on http://127.0.0.1:5000
app-1 | * Running on http://172.18.0.2:5000
app-1 | Press CTRL+C to quit
Gracefully stopping... (press Ctrl+C again to force)
[+] Stopping 1/1
 ✓ Container rm554145-app-1 Stopped
[RM554145@vmmk-odonto-cs ~]$ docker-compose logs
app-1 | * Serving Flask app 'app'
app-1 | * Debug mode: off
app-1 | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
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```