

3. Um aluno roda o pelo menos 10 funções do Dockerfile Enviar um PDF com as evidências da imagem e container executando.

root@480e4535290c: /

View build details: docker-desktop://dashboard/build/default/default/mn2qgkjp079i5oziu
zt5l4nc6

PS C:\Users\labsfiap> docker image rm 96496

Error response from daemon: No such image: 96496:latest

PS C:\Users\labsfiap> docker image rm96496

Usage: docker image COMMAND

Manage images

Commands:

build Build an image from a Dockerfile

history Show the history of an image

import Import the contents from a tarball to create a filesystem image

inspect Display detailed information on one or more images

load Load an image from a tar archive or STDIN

ls List images

prune Remove unused images

pull Download an image from a registry

push Upload an image to a registry

rm Remove one or more images

save Save one or more images to a tar archive (streamed to STDOUT by default)

tag Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.

PS C:\Users\labsfiap> docker build -t ubuntu_python .

[+] Building 0.9s (5/5) FINISHED docker:default

=> [internal] load build definition from Dockerfile 0.0s

=> => transferring dockerfile: 50B 0.0s

=> [internal] load metadata for docker.io/library/ubuntu:latest 0.8s

=> [internal] load .dockerignore 0.0s

=> => transferring context: 2B 0.0s

=> CACHED [1/1] FROM docker.io/library/ubuntu:latest@sha256:ab64a8382e 0.0s

=> exporting to image 0.0s

=> => exporting layers 0.0s

=> => writing image sha256:94e838cf99c4514e7dc7a083c998a226f0d8b07cd98 0.0s

=> => naming to docker.io/library/ubuntu_python 0.0s

View build details: docker-desktop://dashboard/build/default/default/qtwejgh4oiixf7i4
x4bbma8o

PS C:\Users\labsfiap> docker image ls

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu_python latest 94e838cf99c4 5 days ago 78.1MB

PS C:\Users\labsfiap> docker container run -it ubuntu_python /bin/bash

root@480e4535290c:/#

root@480e4535290c:/# cd ..

root@480e4535290c:/#

root@480e4535290c:/#

docker desktop

Search for ima... Ctrl+K

Images Give feedback

Local Hub

78.11 MB / 0 Bytes in use 1 images Last refresh: 36 minutes ago

Search

Delete Space to be reclaimed 78.11 MB

	Na...	Tag	Status	Created	Size	Actions
EXT	ubuntu	latest	In use	6 days ago	78.11 MB	
	94e838					

Selected 1 of 1

Walkthroughs

1 FROM node

2 RUN mkdir -p

3 WORKDIR /app

4 COPY packa

How do I run a container?

6 mins

RAM 2.42 GB CPU 0.00% Signed in

New version available

2

22:00

15/10/2024


```
Select Administrator: Windows PowerShell

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\labsfiap> docker build -t ubuntu_python .
[+] Building 2.1s (7/7) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile            0.0s
=> => transferring dockerfile: 87B                             0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 1.7s
=> [auth] library/ubuntu:pull token for registry-1.docker.io    0.0s
=> [internal] load .dockerignore                               0.0s
=> => transferring context: 2B                                   0.0s
=> CACHED [1/2] FROM docker.io/library/ubuntu:latest@sha256:991339f396f5560526 0.0s
=> => resolve docker.io/library/ubuntu:latest@sha256:991339f396f5560526a478343 0.0s
=> [2/2] RUN touch arquivo-deboas-vindas.txt                  0.3s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:52c644cb10fd506888b570c8243b6cda7cdcd1dc0a31f840125 0.0s
=> => naming to docker.io/library/ubuntu_python                0.0s

View build details: docker-desktop://dashboard/build/default/default/hkr68kcc9njvqabwx
aow4mwbF
PS C:\Users\labsfiap>
```






```
Dockerfile - Notepad
File Edit Format View Help
FROM ubuntu
RUN touch arquivo-deboas-vindas.txt
```

```
Select root@cdd8023f9855: /app-java
PS C:\Users\labsfiap> docker build -t teste .
[+] Building 32.2s (6/6) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 130B 0.0s
=> [internal] load metadata for docker.io/library/ubuntu:18.04 0.6s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [stage-1 1/2] FROM docker.io/library/ubuntu:18.04@sha256:152dc042452c49600 31.3s
=> => resolve docker.io/library/ubuntu:18.04@sha256:152dc042452c496007f07ca912 0.0s
=> => sha256:152dc042452c496007f07ca9127571cb9c29697f42acbfad7 1.33kB / 1.33kB 0.0s
=> => sha256:dca176c9663a7ba4c1f0e710986f5a25e672842963d95b960191e 424B / 424B 0.0s
=> => sha256:f9a80a55f492e823bf5d51f1bd5f87ea3eed1cb31788686aa 2.30kB / 2.30kB 0.0s
=> => sha256:7c457f213c7634afb95a0fb2410a74b7b5bc0ba5270333 25.69MB / 25.69MB 30.7s
=> => extracting sha256:7c457f213c7634afb95a0fb2410a74b7b5bc0ba527033362c240c7 0.5s
=> [stage-1 2/2] WORKDIR /app-java 0.2s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:da5145c70945402f8b405b576471444d37d43b6027c31944467 0.0s
=> => naming to docker.io/library/teste 0.0s

View build details: docker-desktop://dashboard/build/default/default/im4ihw73tguxhiph6d4icxpog
PS C:\Users\labsfiap> docker container run --name testworkdir -it teste bash
root@cdd8023f9855:/app-java# exit
exit
PS C:\Users\labsfiap> docker container start testworkdir -i
root@cdd8023f9855:/app-java#
```

docker desktop

Search for ima... Ctrl+K



Containers [Give feedback](#)



Container CPU usage ⓘ
0.00% / 2000% (20 CPUs available)

Container memory usage ⓘ
1.69MB / 24.23GB

Show charts


Search

Only running

	Name	Image	Status	CPU	Actions
<input type="checkbox"/>	 busy_ga	ubuntu_pyt	Running		<div></div> <div></div> <div></div>
<input type="checkbox"/>	 testewo	teste	Running		<div></div> <div></div> <div></div>

Showing 2 items

Walkthroughs



Multi-container applications

8 mins

Containerize your application

RAM 2.52 GB CPU 0.00% Signed in

New version available 2

22:23 15/10/2024

```
Administrator: Windows PowerShell

=> CACHED [stage-1 2/2] WORKDIR /app-java 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:da5145c70945402f8b405b576471444d37d43b6027c31944467 0.0s
=> => naming to docker.io/library/testecmd 0.0s

View build details: docker-desktop://dashboard/build/default/default/yzhsemnc3o5uhuoFu1idr1n2n
PS C:\Users\labsfiap> docker build -t testecmd .
[+] Building 3.0s (6/6) FINISHED docker:default
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 185B 0.0s
=> [internal] load metadata for docker.io/library/alpine:latest 2.5s
=> [auth] library/alpine:pull token for registry-1.docker.io 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [stage-2 1/1] FROM docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde3 0.4s
=> => resolve docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde3 0.0s
=> => sha256:beefdbd8a1da6d2915566fde36db9db0b524eb737fc57cd13 1.85kB / 1.85kB 0.0s
=> => sha256:33735bd63cf84d7e388d9f6d297d348c523c044410f553bd878c6 528B / 528B 0.0s
=> => sha256:91ef0af61f39ece4d6710e465df5ed6ca12112358344fd51a 1.47kB / 1.47kB 0.0s
=> => sha256:43c4264eed91be63b206e17d93e75256a6097070ce643c5e8 3.62MB / 3.62MB 0.3s
=> => extracting sha256:43c4264eed91be63b206e17d93e75256a6097070ce643c5e8f0379 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:ed344a953b0bd388ed2ac59c4f9e6bb9ffbbcc10db809ed9c76 0.0s
=> => naming to docker.io/library/testecmd 0.0s

View build details: docker-desktop://dashboard/build/default/default/ka96i28gq8hy4vacgw77cniva
PS C:\Users\labsfiap> docker container run --rm testecmd
Rodei na execução
PS C:\Users\labsfiap>
```

```
Dockerfile - Notepad
File Edit Format View Help
FROM ubuntu:18.04
WORKDIR /app-java

FROM alpine
CMD ["echo","Rodei na execução"]
Ln 9, Col 1 100% Windows (CRLF) UTF-8
```

docker desktop

Search for ima... Ctrl+K

teste...

CREATED

SIZE

Recommended fixes

Run

ed344a953b0b 1 month ago 7.79 MB

Advanced image analysis is provided by Docker Scout

Upgrade to continue to get access to guided vulnerability remediation and additional software supply chain features. [Learn more](#) and [upgrade](#).

Image hierarchy

Images (2) Vulnerabilities (0) Packages

FROM alpine:3, 3.20, 3...

ALL testecmd:latest

Layers (3)

0 AD... 7.8 MB

1 CM... 0 B

2 CM... 0 B

Package or CVE name

☐ Fixable packages

Reset filters

Package Vulnera...

No vulnerabilities were detected in this image

0-0 of 0

RAM 2.53 GB CPU 0.00% Signed in

New version available

2

22:27 15/10/2024

```
PS C:\Users\labsfiap> docker build -t teste .
2024/10/15 22:28:18 http2: server: error reading preface from client //./pipe/docker_engine: file has already been closed
[+] Building 1.1s (5/5) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile             0.0s
=> => transferring dockerfile: 185B                             0.0s
=> [internal] load metadata for docker.io/library/alpine:latest 1.1s
=> [internal] load .dockerignore                               0.0s
=> => transferring context: 2B                                   0.0s
=> CACHED [stage-2 1/1] FROM docker.io/library/alpine:latest@sha256:beefdbd8a1 0.0s
=> exporting to image                                           0.0s
=> => exporting layers                                           0.0s
=> => writing image sha256:ed344a953b0bd388ed2ac59c4f9e6bb9ffbbcc10db809ed9c76 0.0s
=> => naming to docker.io/library/teste                         0.0s
```

View build details: docker-desktop://dashboard/build/default/default/30m5b7spr4ghz5gnq2wydj1vd

```
PS C:\Users\labsfiap> docker image inspect --format='{}' teste
```

```
[
  {
    "Id": "sha256:ed344a953b0bd388ed2ac59c4f9e6bb9ffbbcc10db809ed9c76bc68551e5bf3e",
    "RepoTags": [
      "teste:latest",
      "testecmd:latest"
    ],
    "RepoDigests": [],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2024-09-06T22:20:07.972381771Z",
    "Container": "",
    "ContainerConfig": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "Env": null,
      "Cmd": null,
      "Image": "",
      "Volumes": null,
      "WorkingDir": "",
      "Entrypoint": null,
      "OnBuild": null,
      "Labels": null
    },
    "DockerVersion": "",
    "Author": "",
    "Config": {
```



```
PS C:\Users\labsfiap> docker run -d --name nginx-server -p 80:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
302e3ee49805: Pull complete
d07412f52e9d: Pull complete
9ab66c386e9c: Pull complete
4b563e5e980a: Pull complete
55af3c8feb2: Pull complete
5b8e768fb22d: Pull complete
85177e2c6f39: Pull complete
Digest: sha256:d2eb56950b84efe34f966a2b92efb1a1a2ea53e7e93b94cdf45a27cf3cd47fc0
Status: Downloaded newer image for nginx:latest
74116aaf591d6ce90e309e4260063590107abc30c595eacc60b76c0eef8bb72f
PS C:\Users\labsfiap>
```

Containers [Give feedback](#)

Container CPU usage ⓘ

0.00% / 2000% (20 CPUs available)

Container memory usage ⓘ

16.64MB / 24.23GB

[Show charts](#)

Search



Only running



Name

Image

Status

Actions

[busy_gates](#)
480e4535290c [ubuntu_py](#)

Running

[testworkdir](#)
cdd8023f9855 [teste](#)

Exited

[nginx-server](#)
74116aaf591d [nginx](#)

Running



Showing 3 items

Walkthroughs



Multi-container applications

8 mins



Containerize your application



RAM 2.77 GB

CPU 0.00%

Signed in

New version available

2






22:31
15/10/2024


```
Administrator: Windows PowerShell
PS C:\Users\labsfiap> docker build -t ptoentrada .
[+] Building 1.9s (6/6) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 256B
=> [internal] load metadata for docker.io/library/alpine:latest
=> [auth] library/alpine:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> CACHED [stage-3 1/1] FROM docker.io/library/alpine:latest@sha256:beefdbd8a1
=> exporting to image
=> => exporting layers
=> => writing image sha256:e38d726a9173cc1f7b01d5ebe16a4fdc475a7d1bcf82fd37f81
=> => naming to docker.io/library/ptoentrada

View build details: docker-desktop://dashboard/build/default/default/rsigklhg5y9qckghh
j9hcfoky
PS C:\Users\labsfiap> docker container run --rm ptoentrada
Mem: 2785500K used, 23227460K free, 2268K shrd, 39932K buff, 2012136K cached
CPU: 0% usr 0% sys 0% nic 100% idle 0% io 0% irq 0% irq
Load average: 0.10 0.04 0.01 2/670 6
PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
1 0 root R 1616 0% 8 0% top -b
Mem: 2783688K used, 23229272K free, 2276K shrd, 39932K buff, 2012148K cached
CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq
Load average: 0.09 0.04 0.01 1/670 6
PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
1 0 root R 1616 0% 8 0% top -b
Mem: 2783688K used, 23229272K free, 2276K shrd, 39940K buff, 2012140K cached
CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq
Load average: 0.08 0.04 0.00 1/670 6
PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
1 0 root R 1616 0% 8 0% top -b
Mem: 2785228K used, 23227732K free, 2308K shrd, 39940K buff, 2012244K cached
CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq
Load average: 0.16 0.05 0.01 1/670 6
PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
1 0 root R 1616 0% 8 0% top -b
Mem: 2785228K used, 23227732K free, 2308K shrd, 39948K buff, 2012236K cached
CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq
Load average: 0.14 0.05 0.01 1/670 6
PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
1 0 root R 1616 0% 8 0% top -b
Mem: 2785984K used, 23226976K free, 2312K shrd, 39948K buff, 2012248K cached
CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq
Load average: 0.13 0.05 0.01 1/670 6
PID PPID USER STAT VSZ %VSZ CPU %CPU COMMAND
1 0 root R 1616 0% 8 0% top -b
Mem: 2785984K used, 23226976K free, 2312K shrd, 39956K buff, 2012240K cached
CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq
Load average: 0.12 0.05 0.01 1/670 6
```

docker desktop

Search for ima... Ctrl+K



Containers


[Give feedback](#)













Container CPU usage ⓘ

Container memory usage ⓘ [Show charts](#)

0.00% / 2000% (20 CPUs available)

16.97MB / 24.23GB

 Only running

<input type="checkbox"/>	Name	Image	Status	Actions
<input type="checkbox"/>	testworkdir cdd8023f9855 	teste	Exited	  
<input type="checkbox"/>	nginx-server 74116aaf591d 	nginx	Running	  
<input type="checkbox"/>	dazzling_gagarin 6e10eb809563 	ptoentrada	Running	  

Showing 4 items

Walkthroughs

 Multi-container applications
8 mins

 Containerize your application
3 mins

Administrator: Windows PowerShell

```
PS C:\Users\labsfiap> docker build -t teste .
[+] Building 0.9s (5/5) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 303B 0.0s
=> [internal] load metadata for docker.io/library/alpine:latest 0.8s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> CACHED [stage-3 1/1] FROM docker.io/library/alpine:latest@sha256:befdbd8a1da6d2915 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:43a5621d1a27997f3b09daaf4d26e6f8e5ebfd32d45e91e7d401ed8172e 0.0s
=> => naming to docker.io/library/teste 0.0s

View build details: docker-desktop://dashboard/build/default/default/lq38yp7ui80f4eyhqufq9sjqs
PS C:\Users\labsfiap> docker container run --name appentryecmd teste
Helo, World
PS C:\Users\labsfiap>
```

Dockerfile - Notepad

```
File Edit Format View Help
FROM alpine
ENTRYPOINT exec top -b
ENTRYPOINT ["echo", "Helo,"]
CMD ["World"]
```

Ln 17, Col 1 100% Windows (CRLF) UTF-8

docker desktop

appentryecmd

teste

8041d891551c

Logs Inspect Bind mounts Exec Files Stats

2024-10-15 22:36:13 Helo, World

EXT

RAM 2.78 GB CPU 0.05% Signed in

New version available 2

22:36 15/10/2024

Administrator: Windows PowerShell

PS C:\Users\labsfiap> docker build -t arg-demo .
[+] Building 1.0s (6/6) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 397B 0.0s
=> [internal] load metadata for docker.io/library/alpine:latest 1.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [stage-3 1/2] FROM docker.io/library/alpine:latest@sha256:beefdbd8a1da6d2915566fde3 0.0s
=> CACHED [stage-3 2/2] RUN echo "Olá! Bem-vinde João" > bem-vinde.txt 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:dea13cca827d45f05dc1b1bfc257671f1e965f141ae94dd7b26972fb4da 0.0s
=> => naming to docker.io/library/arg-demo 0.0s

View build details: docker-desktop://dashboard/build/default/default/wj1rx72pnc6127dc2m3pbvmpo
PS C:\Users\labsfiap> docker container run --rm arg-demo
Olá! Bem-vinde João
PS C:\Users\labsfiap>

Dockerfile - Notepad

File Edit Format View Help
RUN echo "Olá! Bem-vinde \$nome" > bem-vinde.txt
ENTRYPOINT cat bem-vinde.txt

Ln 19, Col 29 100% Windows (CRLF) UTF-8

docker desktop

Containers [Give feedback](#)

Container CPU usage ⓘ 0.00% / 2000% (20 CPUs available) Container memory usage ⓘ 16.61MB / 24.23GB [Show charts](#)

Search Only running

<input type="checkbox"/>	Name	Image	Status	Actions
<input type="checkbox"/>	busy_gates 480e4535290c	ubuntu_pyt	Running	
<input type="checkbox"/>	testworkdir cdd8023f9855	teste	Exited	
<input type="checkbox"/>	nginx-server 74116aaf591d	nginx	Running	

Showing 3 items

Walkthroughs

Multi-container applications
8 mins

Containerize your application
\$ docker init

RAM 2.79 GB CPU 0.00% Signed in ⓘ New version available 2

22:40
15/10/2024