

INSTITUTO FEDERAL – Curso Técnico em Telecomunicações

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Usuário DockerHub: paulhenry2025

Atividade: Docker – Criação e envio de imagem personalizada com Nginx

Data: 04/11/2025

Objetivo

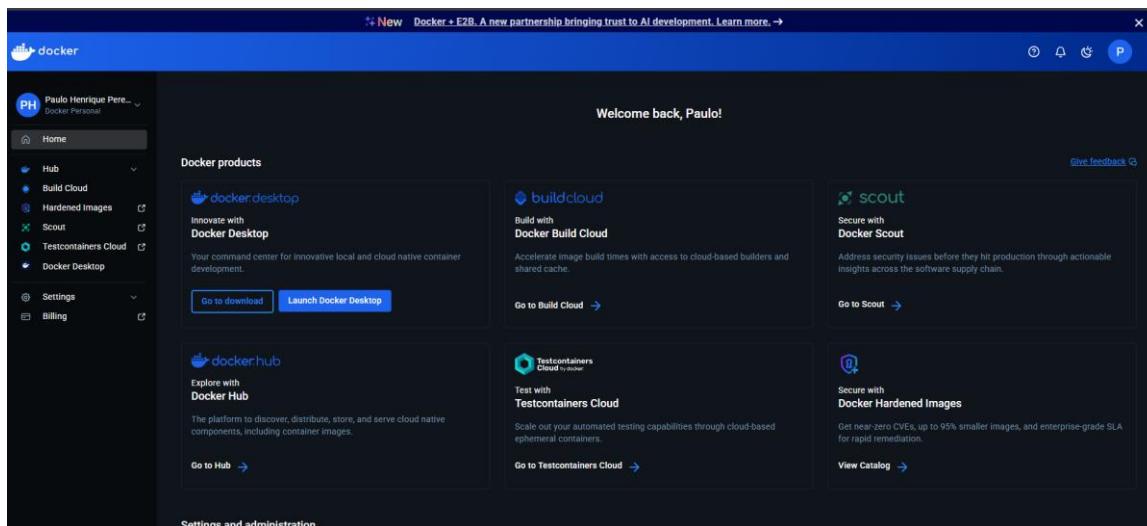
Executar no Docker Playground o processo completo de criação, modificação e publicação de uma imagem Docker contendo o servidor web Nginx.

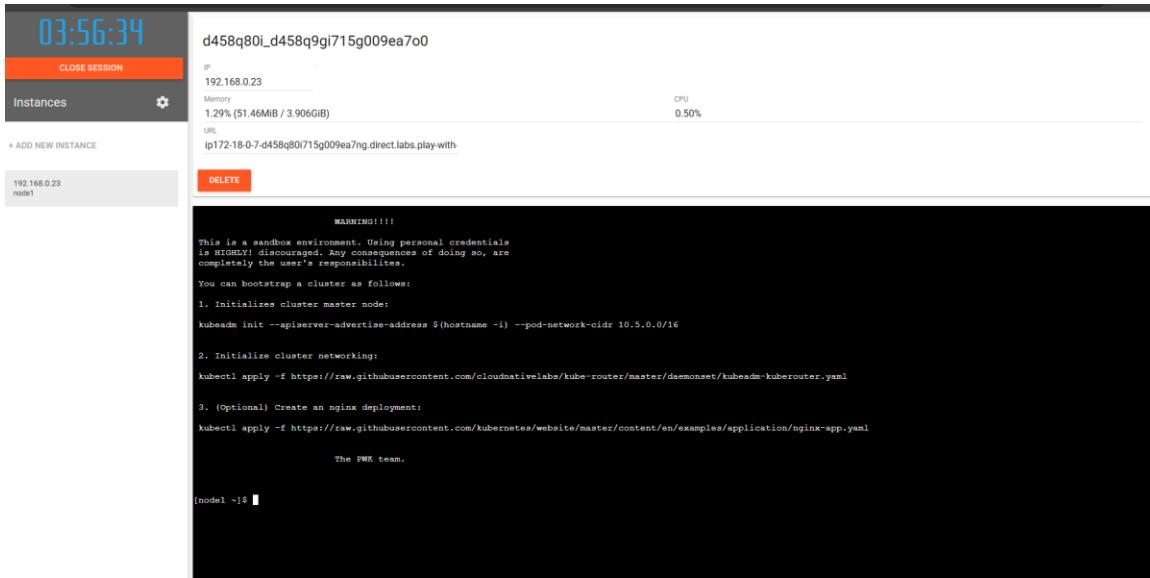
Passos Executados

- 1. Acesso e login no Docker Playground – Print 1
- 2. Download da imagem base Ubuntu/Debian – Print 2
- 3. Criação do container com -it – Print 3
- 4. Instalação do nginx dentro do container – Print 4
- 5. Commit da nova imagem – Print 5
- 6. Login e envio (push) para o DockerHub – Print 6
- 7. Verificação da imagem publicada – Print 7

Conclusão

A atividade permitiu compreender o ciclo de vida de containers Docker: criação, personalização e publicação de imagens. Foi possível instalar e testar o servidor Nginx dentro de um container baseado em Ubuntu/Debian e disponibilizar essa imagem personalizada no DockerHub.





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2. Initialize cluster networking:
kubectl apply -f https://raw.githubusercontent.com/cloudnativelabs/kube-router/master/daemonset/kubeadm-kuberouter.yaml

3. (Optional) Create an nginx deployment:
kubectl apply -f https://raw.githubusercontent.com/kubernetes/website/master/content/en/examples/application/nginx-app.yaml

The PWK team.

node1 ~]$ docker pull ubuntu
sing default tag: latest
atest: Pulling from library/ubuntu
b3ffd8ccb52: Pull complete
igest: sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
tatus: Downloaded newer image for ubuntu:latest
ocker.io/library/ubuntu:latest
node1 ~]$ docker imagens
ocker: 'imagens' is not a docker command.
ee 'docker --help'
node1 ~]$ docker imagem
ocker: 'imagem' is not a docker command.
ee 'docker --help'
node1 ~]$ docker images
EPOSITORY TAG IMAGE ID CREATED SIZE
buntu latest 97bed23a3497 4 weeks ago 78.1MB
node1 ~]$ docker run -it ubuntu
root@b667b219a:/#
```

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etting up libelfflt64:amd64 (0.190-1.1ubuntu0.1) ...
etting up libcap2-bin (1:2.66-5ubuntu2.2) ...
etting up libmnl0:amd64 (1.0.5-2build1) ...
etting up libxtables12:amd64 (1.8.10-3ubuntu2) ...
etting up libpam-cap:amd64 (1:2.66-5ubuntu2.2) ...
bconf: unable to initialize frontend: Dialog
bconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 79.)
bconf: falling back to frontend: Readline
bconf: unable to initialize frontend: Readline
bconf: (Can't locate Term/Readline.pm in @INC (you may need to install the Term::ReadLine module) (@INC entries checked: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.38.2 /usr/local/share/perl/5.38.2 /usr/lib/x86_64-linux-gnu/perl5/5.38 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl-base /usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl/5.38 /usr/local/lib/site_perl) at /usr/share/perl5/Debconf/FrontEnd/Readline.pm line 8.)
bconf: falling back to frontend: Teletype
etting up libbpf1:amd64 (1:1.3.0-2build2) ...
etting up iproute2 (6.1.0-1ubuntu6.2) ...
bconf: unable to initialize frontend: Dialog
bconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 79.)
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bconf: falling back to frontend: Teletype
etting up nginx (1.24.0-2ubuntu7.5) ...
nvoke-rc.d: could not determine current runlevel
nvoke-rc.d: policy-rc.d denied execution of start.
rocessing triggers for libc-bin (2.39-0ubuntu8.6) ...
root@b86f7ba3b9a2:~# nginx -v
nginx version: nginx/1.24.0 (Ubuntu)
root@b86f7ba3b9a2:~#
```

```
nd/Readline.pm line 8.)
bconf: falling back to frontend: Teletype
etting up libbpf1:amd64 (1:1.3.0-2build2) ...
etting up iproute2 (6.1.0-1ubuntu6.2) ...
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bconf: (Can't locate Term/Readline.pm in @INC (you may need to install the Term::ReadLine module) (@INC entries checked: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.38.2 /usr/local/share/perl/5.38.2 /usr/lib/x86_64-linux-gnu/perl5/5.38 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl-base /usr/lib/x86_64-linux-gnu/perl/5.38 /usr/share/perl/5.38 /usr/local/lib/site_perl) at /usr/share/perl5/Debconf/FrontEnd/Readline.pm line 8.)
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nvoke-rc.d: policy-rc.d denied execution of start.
rocessing triggers for libc-bin (2.39-0ubuntu8.6) ...
root@b86f7ba3b9a2:~# nginx -v
nginx version: nginx/1.24.0 (Ubuntu)
root@b86f7ba3b9a2:~# exit
xit
[node1 ~]$ docker ps -a
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS                 NAMES
b86f7ba3b9a2        ubuntu              "/bin/bash"            2 minutes ago       Exited (0)   11 seconds ago          quizzical_
euclid
[node1 ~]$ docker commit <b86f7ba3b9a2> paulhenry2025/ubuntu-nginx
bash: b86f7ba3b9a2: No such file or directory
[node1 ~]$ docker commit b86f7ba3b9a2 paulhenry2025/ubuntu-nginx
sha256:766d6ecbc8b2400053b2232283c059fa2e78831d14e16d3502b9a542d5d99f1c
[node1 ~]$ docker images
REPOSITORY           TAG      IMAGE ID      CREATED             SIZE
paulhenry2025/ubuntu-nginx    latest    766d6ecbc8b2    10 seconds ago   141MB
ubuntu              latest    97bed23a3497   4 weeks ago     78.1MB
[node1 ~]$
```

```
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
node1 ~]$ docker push paulhenry2025/ubuntu-nginx
sing default tag: latest
he push refers to repository [docker.io/paulhenry2025/ubuntu-nginx]
n image does not exist locally with the tag: paulhenry2025/ubuntu-nginx
node1 ~]$ docker push paulhenry2025/ubuntu-nginx
sing default tag: latest
he push refers to repository [docker.io/paulhenry2025/ubuntu-nginx]
n image does not exist locally with the tag: paulhenry2025/ubuntu-nginx
node1 ~]$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
86f7ba3b9a2        ubuntu              "/bin/bash"         10 minutes ago   Exited (0) 8 minutes ago
                                                               NAMES
quizzical_
uclid
node1 ~]$ docker commit b86f7ba3b9a2 paulhenry2025/ubuntu-nginx
ha256:03618137fb64eb1a44ff892bfff343bade92a1b6361b882a57c29b05b0e5605da
node1 ~]$ docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
aulhenry2025/ubuntu-nginx    latest    03618137fb64  10 seconds ago  141MB
none>                <none>   766d6ecbc8b2  6 minutes ago   141MB
ubuntu               latest    97bed23a3497  4 weeks ago    78.1MB
node1 ~]$ docker login
uthenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
node1 ~]$ docker push paulhenry2025/ubuntu-nginx
sing default tag: latest
he push refers to repository [docker.io/paulhenry2025/ubuntu-nginx]
bc4173cdce58: Pushed
73ec47a8c22: Mounted from library/ubuntu
atest: digest: sha256:2a8730720adfd6f7cbf03bc9b387aa3d20bd6d9cf6983eb59588d78704d24fc7 size: 741
node1 ~]$
```

The screenshot shows the Docker Hub interface for the 'Repositories' section under the 'paulhenry2025' namespace. The page has a dark theme.

Repositories
All repositories within the **paulhenry2025** namespace.

Search bar: Search by repository name
Filter: All content

Create a repository button

Name	Last Pushed	Contains	Visibility
paulhenry2025/ubuntu-nginx	1 minute ago	IMAGE	Public

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