



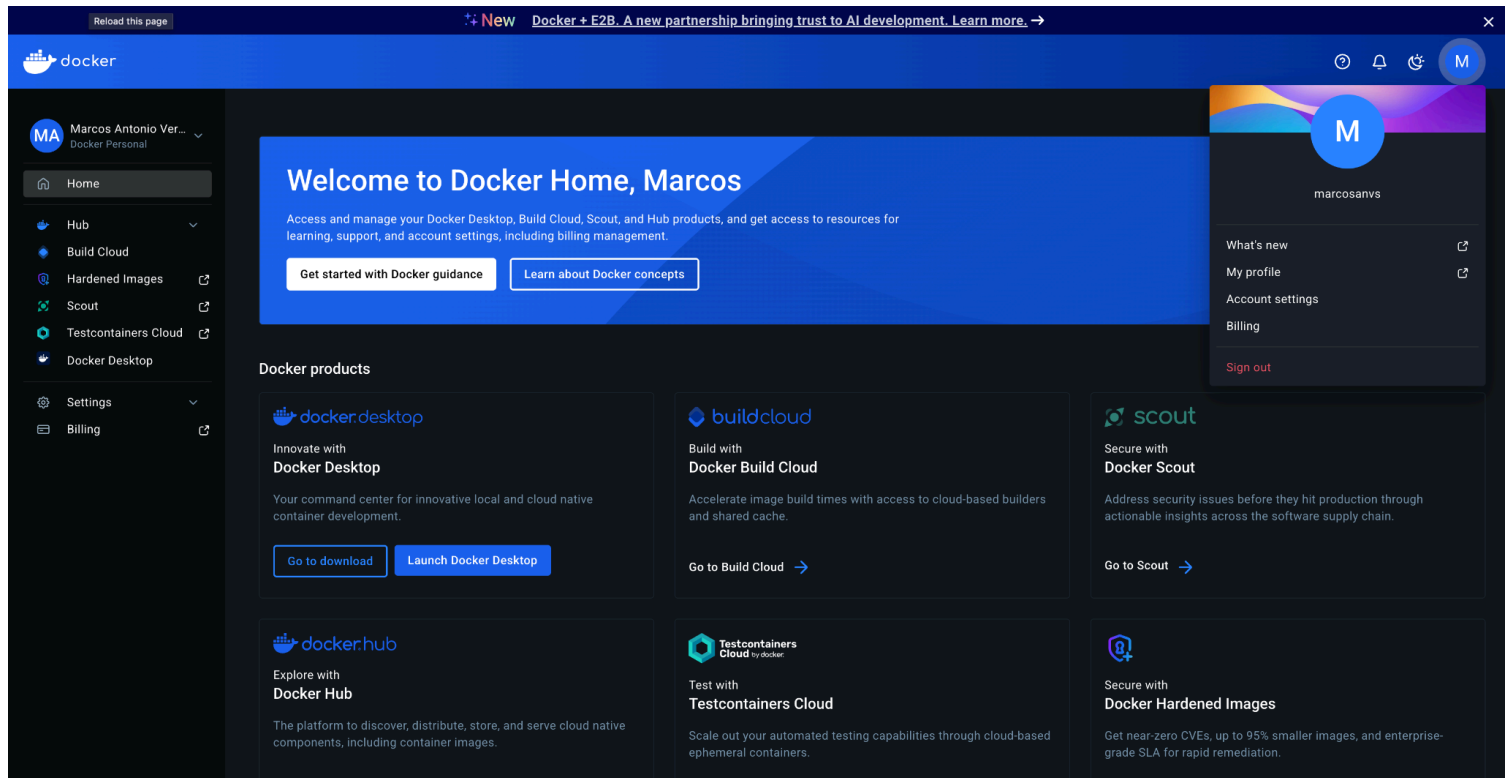
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ASR - 01.302.22 - ADMINISTRAÇÃO DE SERVIÇOS DE REDE
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**Atividade 4 - Usando uma instalação do Linux Ubuntu no Virtual Box para
manipulação de imagens dockers**

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Usando uma instalação do Linux Ubuntu no Virtual Box faça as seguintes atividades:

1. Crie uma conta no DockerHub <https://hub.docker.com/repositories/marcosanvs>



2. Faça um pull de uma imagem ubuntu

```
root@fedora:/home/marcosveras# docker login

USING WEB-BASED LOGIN

Info → To sign in with credentials on the command line, use 'docker login -u <username>'

Your one-time device confirmation code is: RGGM-FKHH
Press ENTER to open your browser or submit your device code here: https://login.docker.com/activate

Waiting for authentication in the browser...

WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
root@fedora:/home/marcosveras# docker pull ubuntu:rolling~
```

```

root@fedora:/home/marcosveras# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; preset: disabled)
   Drop-In: /usr/lib/systemd/system/service.d
           └─10-timeout-abort.conf, 50-keep-warm.conf
   Active: active (running) since Thu 2025-10-23 20:54:03 -03; 4s ago
   Invocation: 0bdba4c721d34f66ba3888beacabf3f0
   TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 6898 (dockerd)
   Tasks: 10
   Memory: 62.3M (peak: 65.6M)
   CPU: 715ms
   CGroup: /system.slice/docker.service
           └─6898 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --selinux-enabled --userland-proxy-path /usr/bin/docker-proxy --init-path /usr/bin/tini-static

Oct 23 20:54:00 fedora dockerd[6898]: time="2025-10-23T20:54:00.776274223-03:00" level=info msg="Creating a containerd client" address=/run/containerd/containerd.sock timeout=1m0s
Oct 23 20:54:00 fedora dockerd[6898]: time="2025-10-23T20:54:00.873374130-03:00" level=info msg="Loading containers: start."
Oct 23 20:54:01 fedora dockerd[6898]: time="2025-10-23T20:54:01.155695160-03:00" level=info msg="Firewall: created docker-forwarding policy"
Oct 23 20:54:02 fedora dockerd[6898]: time="2025-10-23T20:54:02.333472648-03:00" level=info msg="Loading containers: done."
Oct 23 20:54:02 fedora dockerd[6898]: time="2025-10-23T20:54:02.373461522-03:00" level=info msg="Docker daemon" commit=2.fc41 containerd-snapshotter=false storage-driver=overlay2 version=28.5.1
Oct 23 20:54:02 fedora dockerd[6898]: time="2025-10-23T20:54:02.373658922-03:00" level=info msg="Initializing buildkit"
Oct 23 20:54:03 fedora dockerd[6898]: time="2025-10-23T20:54:03.002204369-03:00" level=info msg="Completed buildkit initialization"
Oct 23 20:54:03 fedora dockerd[6898]: time="2025-10-23T20:54:03.011973163-03:00" level=info msg="Daemon has completed initialization"
Oct 23 20:54:03 fedora dockerd[6898]: time="2025-10-23T20:54:03.012057353-03:00" level=info msg="API listen on /run/docker.sock"
Oct 23 20:54:03 fedora systemd[1]: Started docker.service - Docker Application Container Engine.
root@fedora:/home/marcosveras# docker pull ubuntu:rolling
rolling: Pulling from library/ubuntu
4d90657552ac: Pull complete
Digest: sha256:9b61739164b58f2263067bd3ab31c7746ded4cade1f9d708e6f1b047b408a470
Status: Downloaded newer image for ubuntu:rolling
docker.io/library/ubuntu:rolling
root@fedora:/home/marcosveras#

```

3. Crie um container a partir da imagem ubuntu que foi salva e o acesse com as opções -it;

```

root@fedora:/home/marcosveras# docker run -it ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
b8a35db46e38: Pull complete
Digest: sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
Status: Downloaded newer image for ubuntu:latest
root@f2496437dd32:/# apt install -y nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done

```

4. Instale no container o nginx

```
root@fedora:/home/marcosveras# docker run -it ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
b8a35db46e38: Pull complete
Digest: sha256:66460d557b25769b102175144d538d88219c077c678a49af4afca6fbfc1b5252
Status: Downloaded newer image for ubuntu:latest
root@f2496437dd32:/# apt install -y nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

5. Faça o commit desse container de forma a criar uma versão alterada da imagem ubuntu acrescida com o nginx;

6. Faça um push dessa imagem para a sua conta no Dockerhub; <https://hub.docker.com/repositories/marcosanvs>

```
root@f2496437dd32:/# nginx -v
nginx version: nginx/1.24.0 (Ubuntu)
root@f2496437dd32:/# service nginx start
 * Starting nginx nginx
root@f2496437dd32:/# exit
exit
root@fedora:/home/marcosveras# docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS          NAMES
f2496437dd32   ubuntu    "/bin/bash"             3 minutes ago   Exited (0) 14 seconds ago           angry_swirles
root@fedora:/home/marcosveras# docker commit f2496437dd32 marcosanvs/ubuntu-nginx:1.0
sha256:736315a48cd691bd6a4d9a5a1bb04340babc44e958ac18ff0259e0525417d4b1
root@fedora:/home/marcosveras# docker push marcosanvs/ubuntu-nginx:1.0
The push refers to repository [docker.io/marcosanvs/ubuntu-nginx]
15cf9232a706: Pushed
ab34259f9ca5: Mounted from library/ubuntu
1.0: digest: sha256:03f7fdb4246fce8193afa9249a8cd7189f9835bd444a4769d37c63abc26dd129 size: 741
root@fedora:/home/marcosveras#
```

The screenshot shows the Docker Hub web interface for the user 'marcosanvs'. The top navigation bar includes the Docker Hub logo, 'Explore', 'My Hub', a search bar, and utility icons. The left sidebar contains a menu with 'Repositories' selected, along with 'Hardened Images', 'Collaborations', 'Settings', 'Default privacy', 'Notifications', 'Billing', 'Usage', 'Pulls', and 'Storage'. The main content area is titled 'Repositories' and shows a list of repositories within the 'marcosanvs' namespace. A table lists the repository 'marcosanvs/ubuntu-nginx', which was pushed 1 minute ago, contains an image, is public, and has an inactive scout. A 'Create a repository' button is visible in the top right of the repository list.

Name	Last Pushed	Contains	Visibility	Scout
marcosanvs/ubuntu-nginx	1 minute ago	IMAGE	Public	Inactive