Instruções

- a) Rodar em modo iterativo um container a partir da imagem do ubuntu, usando apt-get instalar o NGINX, inicializar o servidor NGINX.
- b) Com o comando commit, gerar uma imagem chamada ubuntu-allumy;
- c) Exportar a image para o arquivo ubuntu-allumy.tar através do comando save;
- d) Remover a imagem ubuntu-allumy;
- e) Importar a imagem com ubuntu-allumy.tar através do comando load.
- f) Rodar um container apartir da imagem importada.

Resolução

Inicialização do container e update de repositórios

```
pedro-schneider@pedro-schneider-X550LA:~$ docker container run -it --name my-ubuntu ubuntu sh
# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [446 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [476 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [13.7 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [364 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [678 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [503 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [446 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [17.8 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [11.8 kB]
Fetched 25.2 MB in 8s (3327 kB/s)
Reading package lists... Done
```

Instalação do nginx

```
# apt-get install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 iproute2 krb5-locales libatm1t64 libbpf1 libcap2-bin libelf1t64 libgssapi-krb5-2 libk5crypto3 libkeyutils1 libkrb5-3
 libkrb5support0 libmnl0 libpam-cap libtirpc-common libtirpc3t64 libxtables12 nginx-common
Suggested packages:
 iproute2-doc python3:any krb5-doc krb5-user fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
 iproute2 krb5-locales libatm1t64 libbpf1 libcap2-bin libelf1t64 libgssapi-krb5-2 libk5crypto3 libkeyutils1 libkrb5-3
 libkrb5support0 libmnl0 libpam-cap libtirpc-common libtirpc3t64 libxtables12 nginx nginx-common
0 upgraded, 18 newly installed, 0 to remove and 3 not upgraded.
Need to get 2733 kB of archives.
After this operation, 8057 kB of additional disk space will be used.
Do you want to continue? [Y/n]
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 libelf1t64 amd64 0.190-1.1build4 [57.6 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libbpf1 amd64 1:1.3.0-2build2 [166 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libmnl0 amd64 1.0.5-2build1 [12.3 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libkrb5support0 amd64 1.20.1-6ubuntu2.1 [33.6 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libk5crypto3 amd64 1.20.1-6ubuntu2.1 [81.7 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 libkeyutils1 amd64 1.6.3-3build1 [9490 B]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libkrb5-3 amd64 1.20.1-6ubuntu2.1 [347 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libgssapi-krb5-2 amd64 1.20.1-6ubuntu2.1 [143 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 libtirpc-common all 1.3.4+ds-1.1build1 [8094 B]
Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 libtirpc3t64 amd64 1.3.4+ds-1.1build1 [82.6 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/main amd64 libxtables12 amd64 1.8.10-3ubuntu2 [35.7 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/main amd64 libcap2-bin amd64 1:2.66-5ubuntu2 [34.5 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble/main amd64 iproute2 amd64 6.1.0-1ubuntu6 [1120 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 krb5-locales all 1.20.1-6ubuntu2.1 [14.0 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble/main amd64 libatm1t64 amd64 1:2.5.1-5.1build1 [22.9 kB]
```

Inicialização do nginx

```
# /etc/init.d/nginx start
  * Starting nginx nginx [ OK ]
```

Geração da imagem por commit

pedro-schneider@pedro-schneider-X550LA:~\$ docker container commit my-ubuntu ubuntu-allumy sha256:26138056e5cb52985972487fc430b0abd367decb9aad3a629736c09242de3db4

Geração do arquivo tar e exclusão da imagem

```
pedro-schneider@pedro-schneider-X550LA:~$ docker image save -o ubuntu-allumy.tar ubuntu-allumy
pedro-schneider@pedro-schneider-X550LA:~$ docker image rm ubuntu-allumy
Untagged: ubuntu-allumy:latest
Deleted: sha256:26138056e5cb52985972487fc430b0abd367decb9aad3a629736c09242de3db4
Deleted: sha256:89e8d339b9607a4f0a8fed0fa9f383758cae5024c2227a4536752f7e336c4123
```

Importação da imagem do arquivo tar com o comando load

Inicialização de um novo container com a imagem e verificação da presença do nginx

bin	boot	etc	lib	media op	t root sbin	s	rv tmp var			
bin.usr-is-merged	dev	home	lib64	mnt pro	oc run sbin.u	ısr-is-merged s	ys usr			
# cd etc										
# ls										
lternatives		default		gshadow	issue.net	lsb-release	os-release	rc2.d	selinux	sysctl.conf
pt		dpkg		gshadow-	kernel	machine-id	pam.conf	rc3.d	shadow	sysctl.d
bash.bashrc		e2scrub.conf		gss	ld.so.cache	mke2fs.conf	pam.d	rc4.d	shadow-	systemd
oindresvport.blacklist		environment		host.conf	ld.so.conf	mtab	passwd	rc5.d	shells	terminfo
loud		fstab		hostname	ld.so.conf.d	netconfig	passwd-	rc6.d	skel	ufw
ron.d		gai.conf		hosts	legal	networks	profile	rcS.d	subgid	update-motd.d
ron.daily		gnutls		init.d	libaudit.conf	nginx	profile.d	resolv.conf	subgid-	xattr.conf
debconf.conf		group		iproute2	login.defs	nsswitch.conf	rc0.d	rmt	subuid	
debian_version		group-		issue	logrotate.d	opt	rc1.d	security	subuid-	
# ls nginx										
conf.d fastc	gi_pa	arams	koi-win	module	es-available ng	jinx.conf scg	i_params	sites-enabl	ed uwsgi.	_params
fastcgi.conf koi-u # ■	tf		mime.ty	pes module	es-enabled pr	oxy_params sit	es-available	snippets	win-u	tf