

NOMBRE: Bibiana Thonamzin Bárcenas Martínez

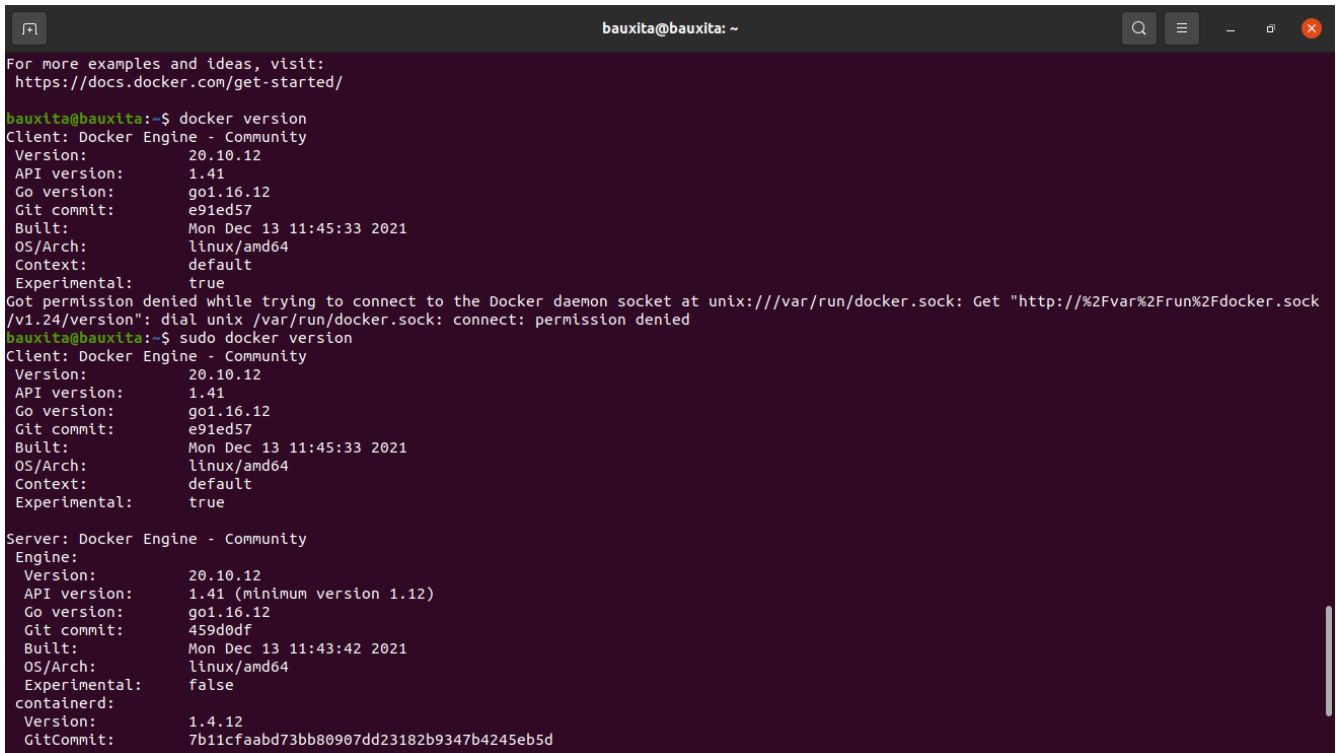
Instrucciones:

Instala docker en tu sistema operativo y ejecuta cualquier imagen que tu quieras. Toma una captura de pantalla y sube la solución a la plataforma. Si todavía no has instalado docker aquí puedes encontrar los instaladores: <https://docs.docker.com/get-docker/>

Vídeo con el que me guié:

<https://www.youtube.com/watch?v=NVvZNmfgg6M>

*Instalación de Docker versión 20.10.12

A terminal window titled 'bauxita@bauxita: ~' with a dark background. It shows the output of 'docker version' and 'sudo docker version'. The first command shows client information for Docker Engine - Community, version 20.10.12. The second command shows the same client information plus server information for Docker Engine - Community, version 20.10.12, and containerd version 1.4.12. There is a permission error message between the two commands.

```
For more examples and ideas, visit:
https://docs.docker.com/get-started/

bauxita@bauxita:~$ docker version
Client: Docker Engine - Community
Version: 20.10.12
API version: 1.41
Go version: go1.16.12
Git commit: e91ed57
Built: Mon Dec 13 11:45:33 2021
OS/Arch: linux/amd64
Context: default
Experimental: true
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied
bauxita@bauxita:~$ sudo docker version
Client: Docker Engine - Community
Version: 20.10.12
API version: 1.41
Go version: go1.16.12
Git commit: e91ed57
Built: Mon Dec 13 11:45:33 2021
OS/Arch: linux/amd64
Context: default
Experimental: true

Server: Docker Engine - Community
Engine:
Version: 20.10.12
API version: 1.41 (minimum version 1.12)
Go version: go1.16.12
Git commit: 459d0df
Built: Mon Dec 13 11:43:42 2021
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.4.12
GitCommit: 7b11cfaabd73bb80907dd23182b9347b4245eb5d
```

```
bauxita@bauxita:~$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    54c9d81cbb44   4 weeks ago    72.8MB
hello-world    latest    feb5d9fea6a5   5 months ago    13.3kB
bauxita@bauxita:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
bauxita@bauxita:~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
d67f0a9f7738   ubuntu    "bash"    13 minutes ago   Exited (0) 6 minutes ago   focused_archimedes
2a1f83948815   ubuntu    "echo 'Hola a todos...'" 13 minutes ago   Exited (0) 13 minutes ago   xenodochial_lovelace
524efc44cfbe   hello-world "/hello"   26 minutes ago   Exited (0) 25 minutes ago   determined_easley
636937d72595   hello-world "/hello"   30 minutes ago   Exited (0) 30 minutes ago   quirky_swanson
cc4ccee7e18    hello-world "/hello"   43 minutes ago   Exited (0) 43 minutes ago   xenodochial_shaw
18bfe2fe3856   hello-world "/hello"   3 hours ago     Exited (0) 3 hours ago     crazy_rhodes
bauxita@bauxita:~$ docker start 18bfe2fe3856
18bfe2fe3856
bauxita@bauxita:~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
d67f0a9f7738   ubuntu    "bash"    16 minutes ago   Exited (0) 10 minutes ago   focused_archimedes
2a1f83948815   ubuntu    "echo 'Hola a todos...'" 17 minutes ago   Exited (0) 17 minutes ago   xenodochial_lovelace
524efc44cfbe   hello-world "/hello"   29 minutes ago   Exited (0) 29 minutes ago   determined_easley
636937d72595   hello-world "/hello"   34 minutes ago   Exited (0) 34 minutes ago   quirky_swanson
cc4ccee7e18    hello-world "/hello"   47 minutes ago   Exited (0) 47 minutes ago   xenodochial_shaw
18bfe2fe3856   hello-world "/hello"   3 hours ago     Exited (0) 3 seconds ago   crazy_rhodes
bauxita@bauxita:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
bauxita@bauxita:~$ docker start d67f0a9f7738
d67f0a9f7738
bauxita@bauxita:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED        STATUS      PORTS   NAMES
d67f0a9f7738   ubuntu    "bash"    17 minutes ago   Up 2 seconds   focused_archimedes
bauxita@bauxita:~$
```

*Ejecuté las imágenes de “hello-world” y “ubuntu”

Configurar el repositorio

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

```
bauxita@bauxita:~$ sudo apt-get update
```

[sudo] contraseña para bauxita:

Des:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]

Obj:2 http://mx.archive.ubuntu.com/ubuntu focal InRelease

Des:3 http://mx.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]

Des:4 http://mx.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]

Des:5 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [40.6 kB]

Des:6 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Metadata [66.6 kB]

Des:7 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [2 464 B]

Des:8 http://mx.archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metadata [279 kB]

Des:9 http://mx.archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 Metadata [391 kB]

Des:10 http://mx.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11 Metadata [940 B]

Des:11 <http://mx.archive.ubuntu.com/ubuntu focal-backports/main amd64 DEP-11 Metadata> [7 988 B]

Des:12 <http://mx.archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Metadata> [30.8 kB]

Descargados 1 155 kB en 2s (613 kB/s)

Leyendo lista de paquetes... Hecho

bauxita@bauxita:~\$ sudo apt-get install \

```
> ca-certificates \
> curl \
> gnupg \
> lsb-release
```

bauxita@bauxita:~\$ sudo apt-get install \

```
> ca-certificates \
> curl \
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> lsb-release
```

Leyendo lista de paquetes... Hecho

Creando árbol de dependencias

Leyendo la información de estado... Hecho

lsb-release ya está en su versión más reciente (11.1.0ubuntu2).

fijado lsb-release como instalado manualmente.

ca-certificates ya está en su versión más reciente (20210119~20.04.2).

fijado ca-certificates como instalado manualmente.

gnupg ya está en su versión más reciente (2.2.19-3ubuntu2.1).

fijado gnupg como instalado manualmente.

Los paquetes indicados a continuación se instalaron de forma automática y ya no son necesarios.

chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi

libgstreamer-plugins-bad1.0-0 libva-wayland2

Utilice «sudo apt autoremove» para eliminarlos.

Se instalarán los siguientes paquetes NUEVOS:

curl

0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 5 no actualizados.

Se necesita descargar 161 kB de archivos.

Se utilizarán 412 kB de espacio de disco adicional después de esta operación.

¿Desea continuar? [S/n] s

Des:1 <http://mx.archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-1ubuntu2.7> [161 kB]

Descargados 161 kB en 1s (272 kB/s)

Seleccionando el paquete curl previamente no seleccionado.

(Leyendo la base de datos ... 186250 ficheros o directorios instalados actualmente.)

Preparando para desempaquetar .../curl_7.68.0-1ubuntu2.7_amd64.deb ...

Desempaquetando curl (7.68.0-1ubuntu2.7) ...

Configurando curl (7.68.0-1ubuntu2.7) ...

Procesando disparadores para man-db (2.9.1-1) ...

```
bauxita@bauxita:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
```

```
bauxita@bauxita:~$ echo \
```

```
> "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \
```

```
> $(lsb_release -cs) stable" test | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

```
bauxita@bauxita:~$ sudo apt-get update
```

Des:1 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]

Obj:2 http://mx.archive.ubuntu.com/ubuntu focal InRelease

Obj:3 http://security.ubuntu.com/ubuntu focal-security InRelease

Des:4 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [13.5 kB]

Obj:5 http://mx.archive.ubuntu.com/ubuntu focal-updates InRelease

Des:6 https://download.docker.com/linux/ubuntu focal/test amd64 Packages [16.0 kB]

Obj:7 http://mx.archive.ubuntu.com/ubuntu focal-backports InRelease

Descargados 87.1 kB en 1s (81.5 kB/s)

Leyendo lista de paquetes... Hecho

```
bauxita@bauxita:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io
```

Leyendo lista de paquetes... Hecho

Creando árbol de dependencias

Leyendo la información de estado... Hecho

Los paquetes indicados a continuación se instalaron de forma automática y ya no son necesarios.

chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi

libgstreamer-plugins-bad1.0-0 libva-wayland2

Utilice «sudo apt autoremove» para eliminarlos.

Se instalarán los siguientes paquetes adicionales:

docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz

slirp4netns

Paquetes sugeridos:

aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit

git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn

Se instalarán los siguientes paquetes NUEVOS:

containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras

docker-scan-plugin git git-man liberror-perl pigz slirp4netns

0 actualizados, 10 nuevos se instalarán, 0 para eliminar y 5 no actualizados.

Se necesita descargar 103 MB de archivos.

Se utilizarán 447 MB de espacio de disco adicional después de esta operación.

¿Desea continuar? [S/n] s

Des:1 <https://download.docker.com/linux/ubuntu/focal/stable/amd64/containerd.io> amd64 1.4.12-1 [23.7 MB]

Des:2 <http://mx.archive.ubuntu.com/ubuntu/focal/universe/amd64/pigz> amd64 2.4-1 [57.4 kB]

Des:3 <http://mx.archive.ubuntu.com/ubuntu/focal/main/amd64/liberror-perl> all 0.17029-1 [26.5 kB]

Des:4 <http://mx.archive.ubuntu.com/ubuntu/focal-updates/main/amd64/git-man> all 1:2.25.1-1ubuntu3.2 [884 kB]

Des:5 <http://mx.archive.ubuntu.com/ubuntu/focal-updates/main/amd64/git> amd64 1:2.25.1-1ubuntu3.2 [4 554 kB]

Des:6 <https://download.docker.com/linux/ubuntu/focal/stable/amd64/docker-ce-cli> amd64 5:20.10.12~3-0~ubuntu-focal [40.7 MB]

Des:7 <http://mx.archive.ubuntu.com/ubuntu/focal/universe/amd64/slirp4netns> amd64 0.4.3-1 [74.3 kB]

Des:8 <https://download.docker.com/linux/ubuntu/focal/stable/amd64/docker-ce> amd64 5:20.10.12~3-0~ubuntu-focal [21.2 MB]

Des:9 <https://download.docker.com/linux/ubuntu/focal/stable/amd64/docker-ce-rootless-extras> amd64 5:20.10.12~3-0~ubuntu-focal [7 921 kB]

Des:10 <https://download.docker.com/linux/ubuntu/focal/stable/amd64/docker-scan-plugin> amd64 0.12.0~ubuntu-focal [3 518 kB]

Descargados 103 MB en 44s (2 327 kB/s)

Seleccionando el paquete pigz previamente no seleccionado.

(Leyendo la base de datos ... 186257 ficheros o directorios instalados actualmente.)

Preparando para desempaquetar .../0-pigz_2.4-1_amd64.deb ...

Desempaquetando pigz (2.4-1) ...

Seleccionando el paquete containerd.io previamente no seleccionado.

Preparando para desempaquetar .../1-containerd.io_1.4.12-1_amd64.deb ...

Desempaquetando containerd.io (1.4.12-1) ...

Seleccionando el paquete docker-ce-cli previamente no seleccionado.

Preparando para desempaquetar .../2-docker-ce-cli_5%3a20.10.12~3-0~ubuntu-focal_amd64.deb ...

Desempaquetando docker-ce-cli (5:20.10.12~3-0~ubuntu-focal) ...

Seleccionando el paquete docker-ce previamente no seleccionado.

Preparando para desempaquetar .../3-docker-ce_5%3a20.10.12~3-0~ubuntu-focal_amd64.deb ...

Desempaquetando docker-ce (5:20.10.12~3-0~ubuntu-focal) ...

Seleccionando el paquete docker-ce-rootless-extras previamente no seleccionado.

Preparando para desempaquetar .../4-docker-ce-rootless-extras_5%3a20.10.12~3-0~ubuntu-focal_amd64.deb ...

Desempaquetando docker-ce-rootless-extras (5:20.10.12~3-0~ubuntu-focal) ...

Seleccionando el paquete docker-scan-plugin previamente no seleccionado.

Preparando para desempaquetar .../5-docker-scan-plugin_0.12.0~ubuntu-focal_amd64.deb ...

Desempaquetando docker-scan-plugin (0.12.0~ubuntu-focal) ...

Seleccionando el paquete liberror-perl previamente no seleccionado.

Preparando para desempaquetar .../6-liberror-perl_0.17029-1_all.deb ...

Desempaquetando liberror-perl (0.17029-1) ...

Seleccionando el paquete git-man previamente no seleccionado.

Preparando para desempaquetar .../7-git-man_1%3a2.25.1-1ubuntu3.2_all.deb ...
Desempaquetando git-man (1:2.25.1-1ubuntu3.2) ...
Seleccionando el paquete git previamente no seleccionado.
Preparando para desempaquetar .../8-git_1%3a2.25.1-1ubuntu3.2_amd64.deb ...
Desempaquetando git (1:2.25.1-1ubuntu3.2) ...
Seleccionando el paquete slirp4netns previamente no seleccionado.
Preparando para desempaquetar .../9-slirp4netns_0.4.3-1_amd64.deb ...
Desempaquetando slirp4netns (0.4.3-1) ...
Configurando slirp4netns (0.4.3-1) ...
Configurando docker-scan-plugin (0.12.0~ubuntu-focal) ...
Configurando liberror-perl (0.17029-1) ...
Configurando containerd.io (1.4.12-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Configurando docker-ce-cli (5:20.10.12~3-0~ubuntu-focal) ...
Configurando pigz (2.4-1) ...
Configurando git-man (1:2.25.1-1ubuntu3.2) ...
Configurando docker-ce-rootless-extras (5:20.10.12~3-0~ubuntu-focal) ...
Configurando docker-ce (5:20.10.12~3-0~ubuntu-focal) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Configurando git (1:2.25.1-1ubuntu3.2) ...
Procesando disparadores para man-db (2.9.1-1) ...
Procesando disparadores para systemd (245.4-4ubuntu3.15) ...
bauxita@bauxita:~\$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:97a379f4f88575512824f3b352bc03cd75e239179eea0fecc38e597b2209f49a
Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the

executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

\$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:

<https://hub.docker.com/>

For more examples and ideas, visit:

<https://docs.docker.com/get-started/>

bauxita@bauxita:~\$ docker version

Client: Docker Engine - Community

Version: 20.10.12

API version: 1.41

Go version: go1.16.12

Git commit: e91ed57

Built: Mon Dec 13 11:45:33 2021

OS/Arch: linux/amd64

Context: default

Experimental: true

Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied

bauxita@bauxita:~\$ sudo docker version

Client: Docker Engine - Community

Version: 20.10.12

API version: 1.41

Go version: go1.16.12

Git commit: e91ed57

Built: Mon Dec 13 11:45:33 2021

OS/Arch: linux/amd64

Context: default

Experimental: true

Server: Docker Engine - Community

Engine:

Version: 20.10.12

```

API version: 1.41 (minimum version 1.12)
Go version: go1.16.12
Git commit: 459d0df
Built: Mon Dec 13 11:43:42 2021
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.4.12
GitCommit: 7b11cfaabd73bb80907dd23182b9347b4245eb5d
runc:
Version: 1.0.2
GitCommit: v1.0.2-0-g52b36a2
docker-init:
Version: 0.19.0
GitCommit: de40ad0
bauxita@bauxita:~$ sudo groupadd docker
groupadd: el grupo «docker» ya existe
bauxita@bauxita:~$ sudo usermod -aG docker $USER

```

DOCKER IMAGE

```

bauxita@bauxita:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest feb5d9fea6a5 5 months ago 13.3kB
bauxita@bauxita:~$

```

DOCKER SEARCH

```

bauxita@bauxita:~$ docker search ubuntu
NAME DESCRIPTION STARS OFFICIAL AUTOMATED
ubuntu Ubuntu is a Debian-based Linux operating sys... 13800 [OK]
websphere-liberty WebSphere Liberty multi-architecture images ... 283 [OK]
ubuntu-upstart DEPRECATED, as is Upstart (find other proces... 112 [OK]
neurodebian NeuroDebian provides neuroscience research s... 88 [OK]
open-liberty Open Liberty multi-architecture images based... 50 [OK]
ubuntu-debootstrap DEPRECATED; use "ubuntu" instead 45 [OK]
ubuntu/nginx Nginx, a high-performance reverse proxy & we... 33

```


ubuntu/mysql	MySQL open source fast, stable, multi-thread...	24	
ubuntu/apache2	Apache, a secure & extensible open-source HT...	23	
ubuntu/prometheus	Prometheus is a systems and service monitori...	23	
kasmweb/ubuntu-bionic-desktop	Ubuntu productivity desktop for Kasm Workspa...	18	
ubuntu/squid	Squid is a caching proxy for the Web. Long-t...	13	
ubuntu/postgres	PostgreSQL is an open source object-relatio...	13	
ubuntu/bind9	BIND 9 is a very flexible, full-featured DNS...	12	
ubuntu/redis	Redis, an open source key-value store. Long-...	8	
ubuntu/grafana	Grafana, a feature rich metrics dashboard & ...	5	
ubuntu/prometheus-alertmanager	Alertmanager handles client alerts from Prom...	5	
ubuntu/memcached	Memcached, in-memory keyvalue store for smal...	3	
ubuntu/telegraf	Telegraf collects, processes, aggregates & w...	3	
circleci/ubuntu-server	This image is for internal use	3	
ubuntu/cortex	Cortex provides storage for Prometheus. Long...	2	
ubuntu/cassandra	Cassandra, an open source NoSQL distributed ...	1	
bitnami/ubuntu-base-buildpack	Ubuntu base compilation image	0	[OK]
snky/ubuntu	A base ubuntu image for all broker clients t...	0	
kasmweb/ubuntu-bionic-dind	Docker for Kasm Workspaces	0	