

# Création d'image

## Etape 1 : Créez une image à partir d'un conteneur

```
docker run -it --name=mycentos1 centos
```

```
vagrant@mydocker:~$ docker run -it --name=mycentos1 centos  
[root@e52be3ae31ed /]#
```

```
[root@e52be3ae31ed /]# wget
```

```
[root@e52be3ae31ed /]# wget  
bash: wget: command not found
```

```
[root@e52be3ae31ed /]# yum install -y wget
```

```
[root@e52be3ae31ed /]# yum install -y wget  
Loaded plugins: fastestmirror, ovl  
Determining fastest mirrors  
 * base: ftp.pasteur.fr  
 * extras: ftp.pasteur.fr  
 * updates: centos.crazyfrogs.org  
base | 3.6 kB 00:00:00
```

```
...  
Installed:  
  wget.x86_64 0:1.14-18.el7_6.1  
Complete!  
[root@e52be3ae31ed /]#
```

```
[root@e52be3ae31ed /]# wget
```

```
[root@e52be3ae31ed /]# wget  
wget: missing URL  
Usage: wget [OPTION]... [URL]...  
  
Try `wget --help' for more options.  
[root@e52be3ae31ed /]#
```

```
[root@e52be3ae31ed /]# exit
```

```
[root@e52be3ae31ed /]# exit  
exit  
vagrant@mydocker:~$
```

```
vagrant@mydocker:~$ docker ps -a
```

```
vagrant@mydocker:~$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
e52be3ae31ed	centos	"/bin/bash"	7 minutes ago	Exited (1) About a minute ago		mycentos1

Les différences entre un conteneur et son image peuvent être vues grâce à la commande "**docker diff**"

## Syntaxe :

```
1 docker diff <cont id | cont name>
2 # A = ajout
3 # C = change
```

```
vagrant@mydocker:~$ docker diff mycentos1
```

```
vagrant@mydocker:~$ docker diff mycentos1
C /root
A /root/.bash_history
C /etc
A /etc/wgetrc
```

```
...
C /var/lib/rpm/Package
C /var/lib/rpm/__db.003
vagrant@mydocker:~$
```

Enregistrer son container comme image (**docker commit**)

```
vagrant@mydocker:~$ docker commit mycentos1 mycent:1.0.0
```

```
vagrant@mydocker:~$ docker commit mycentos1 mycent:1.0.0
sha256:bc3ec9debd861e019f64aba3f21064752506caa1794f4dc6bee231605419f7e3
```

```
vagrant@mydocker:~$ docker images
```

```
vagrant@mydocker:~$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
mycent               1.0.0              bc3ec9debd86       3 minutes ago      271MB
ubuntu              latest             2ca708c1c9cc       7 days ago         64.2MB
centos               latest             67fa590cfc1c       5 weeks ago        202MB
```

Nous allons tester notre image

```
docker run --rm -it mycent:1.0.0 /bin/bash
```

Le flag --rm permet de supprimer automatiquement le container une fois qu'il aura terminé d'installer les dépendances.

```
vagrant@mydocker:~$ docker run --rm -it mycent:1.0.0 /bin/bash
[root@ec916ed22c68 /]#
```

```
[root@ec916ed22c68 /]# wget
```

```
[root@ec916ed22c68 /]# wget
wget: missing URL
Usage: wget [OPTION]... [URL]...

Try `wget --help' for more options.
```

```
[root@ec916ed22c68 /]# exit
```