Rendu lab30

Existing volumes:

1.

PS C:\Users\omar\ESGI-4IABD-janvier-2025> <mark>docker</mark> run --name couchdb -d -p 5984:5984 couchdb:2.1 af7fc18dda57f81c4c0008d1e3eaab10cd3b796862cb7097c3789708b577fa0a

2.

Car Docker crée automatiquement un **volume anonyme** et l'attache à /opt/couchdb/data pour persister les données.

3.

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker inspect couchdb ---format '{{ json .Mounts }}' | ConvertFrom-Json

Type : volume
Name : 6cfbc10072c863d0ac0fef96f270dfa08b39711188581289c68ff38777e997d3

Source : /var/lib/docker/volumes/6cfbc10072c863d0ac0fef96f270dfa08b39711188581289c68ff38777e997d3/_data
Destination : /opt/couchdb/data
Driver : local
Mode :
RW : True
Propagation :
```

4/5..

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker run -it --rm -v 9ec7...:/data busybox sh
/ # ls /data
/ # exit
```

6/7.

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker stop couchdb couchdb
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker rm couchdb couchdb
```

8.

PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker volume rm 6cfbc10072c863d0ac0fef96f270dfa08b39711188581289c68ff38777e997d3
6cfbc10072c863d0ac0fef96f270dfa08b39711188581289c68ff38777e997d3
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker inspect couchdb --format '{{ json .Mounts }}' | ConvertFrom-Json
Error: No such object: couchdb

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker volume ls
          VOLUME NAME
DRIVER
local
          4ffd71da3382bc929856015f74ff906944f63403bf117786ef3726bbe6c4ef3f
          8d4afddfd0485a7e1dff5cc83b211db8c82bcfa6d7fb404960109d8a5e591128
local
          9ec72533abf10f1c0fb591264d91ab07363e3c6814befdedec87e97f<u>3f2d6159</u>
local
          020a079adec03a2fe7b2c3bd87f2274dbf04f41512f50346e6b8ef3ba8a35de0
local
          78b92aa0e1eff10078611dd32214d2e3f21b9f8166010159cb22a1198a8ec9fc
local
local
          4481db00cf4a620baac6c254bb160fa849a306cecc9927a582844a0d65a663ed
local
          a45d43f6124df2d893df045a6040828f0a66fed52413318263627ca77c84f477
local
          c8e2838ccdf9f020a6b1bd91ded6b93a8f9344aa740098a00079461048c05c38
          cab77c4d7f30fb323d873f5a8d976cc5cfc9279b6fd04559332280f2ae005f16
local
          d4512648ff9f79b6d16626c521a0859d1522fd45a4300990f442a5c61e12e6ea
local
local
          s6-ressources_database
```

Named volume:

1.

PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker volume create couchdb_vol
couchdb_vol

2.

PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker run --name couchdb -d -p 5984:5984 -v couchdb_vol:/opt/couchdb/data couchdb:2.1 60c520d694645b3362c70011eb509a7009655b2d814dd67710f0d061915ddf44

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker inspect couchdb --format '{{ json .Mounts }}' | ConvertFrom-Json

Type : volume
Name : couchdb_vol
Source : /var/lib/docker/volumes/couchdb_vol/_data
Destination : /opt/couchdb/data
Driver : local
Mode : z
RW : True
Propagation :
```

Mount directory

1/2

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker run -it --rm -v couchdb_vol:/opt/couchdb/data busybox sh / # ls /opt/couchdb/data _dbs.couch _nodes.couch _replicator.couch _users.couch / # exit
```

SideCar Pattern

1.

2.

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker run -d --name gen_date -v ${PWD}/sidecar:/dck busybox sh -c "while true; do date >> /d ck/date.log; sleep 1; done" fba8e8a6165b8dcd792b4d195b9c419389ae7952db1d9de8c045931945b92dad
```

3.

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> Get-Content .\sidecar\date.log
Thu Aug 28 07:53:18 UTC 2025
Thu Aug 28 07:53:29 UTC 2025
Thu Aug 28 07:53:21 UTC 2025
Thu Aug 28 07:53:21 UTC 2025
Thu Aug 28 07:53:22 UTC 2025
Thu Aug 28 07:53:23 UTC 2025
Thu Aug 28 07:53:25 UTC 2025
Thu Aug 28 07:53:26 UTC 2025
Thu Aug 28 07:53:26 UTC 2025
Thu Aug 28 07:53:27 UTC 2025
Thu Aug 28 07:53:29 UTC 2025
Thu Aug 28 07:53:29 UTC 2025
```

4/5/6.

```
TOUR STANDARY DESCI-4TABD-janvier-2025 docker run -it --rm -v ${PWD}/sidecar:/dck2 busybox tail -f /dck2/date.log
Thu Aug 28 07:53:28 UTC 2025
Thu Aug 28 07:53:30 UTC 2025
Thu Aug 28 07:53:31 UTC 2025
Thu Aug 28 07:53:31 UTC 2025
Thu Aug 28 07:53:33 UTC 2025
Thu Aug 28 07:53:35 UTC 2025
Thu Aug 28 07:53:35 UTC 2025
Thu Aug 28 07:53:37 UTC 2025
Thu Aug 28 07:53:39 UTC 2025
Thu Aug 28 07:53:39 UTC 2025
Thu Aug 28 07:53:40 UTC 2025
Thu Aug 28 07:53:51 UTC 2025
Thu Aug 28 07:53:55 UTC 2025
```

7.

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker kill gen_date
gen_date
```

Le conteneur s'arrête car son seul process (la boucle while true) est tué, sans process principal un conteneur ne peut pas rester en vie.

In memory:

```
PS C:\Users\omar\ESGI-4IABD-janvier-2025> docker run -it --rm --tmpfs /test busybox sh / # mount | grep test tmpfs on /test type tmpfs (rw,nosuid,nodev,noexec,relatime) / # exit PS C:\Users\omar\ESGI-4IABD-janvier-2025>
```