

Installation DOCKER

Lancer la commande depuis wsl:

```
docker run -d -p 80:80 docker/getting-started
```

Installer un machine Ubuntu de façon indépendant sur exemple ubuntu 18.04

Lancer le système d'exploitation:

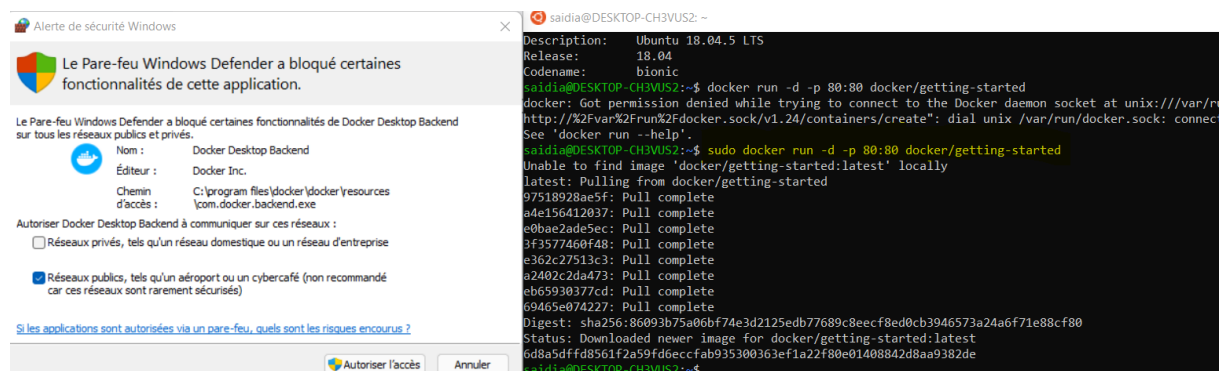
Faire les mises à jours

Se rendre sur docker et sélectionner la machine installer :

Sur la machine vérifier:

```
saidia@DESKTOP-CH3VUS2:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 18.04.5 LTS
Release:        18.04
Codename:       bionic
saidia@DESKTOP-CH3VUS2:~$
```

Copier le lien fournie par docker et le lancer sur Ubuntu



Lancer

```
saidia@DESKTOP-CH3VUS2:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:2498fcee14358aa50ead0cc6c19990fc6ff866ce72aeb5546e1d59caac3d0d60f
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/
```

Lancer le docker:

```
saidia@DESKTOP-CH3VUS2:~$ sudo docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
ea362f368469: Pull complete
Digest: sha256:b5a61709a9a44284d88fb12e5c48db0409cfad5b69d4ff8224077c57302df9cf
Status: Downloaded newer image for ubuntu:latest
root@cdf270e132a1:/#
```

Détails version VM:

```
root@cdf270e132a1:/# uname -a
Linux cdf270e132a1 5.10.16.3-microsoft-standard-WSL2 #1 SMP Fri Apr 2 22:23:49 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
```

```
saidia@DESKTOP-CH3VUS2:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 18.04.5 LTS
Release:        18.04
Codename:       bionic
```

Entrer dans le bash conteneur

```
saidia@DESKTOP-CH3VUS2:~$ sudo docker run -it ubuntu bash
root@ec2cc2fcc5c7:/#
```

Mettre à jour dans le bash :

```
root@ec2cc2fcc5c7:/# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [30.1 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [790 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [33.4 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [11.3 MB]
Get:9 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1385 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [837 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [1275 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [177 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [859 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1118 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1814 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [33.7 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [50.8 kB]
Get:18 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [22.1 kB]
```

Aucune entrée de table des matières n'a été trouvée.

Ensuite installer **lsb-release** c'est-à-dire les logiciels supplémentaire pour le fonctionnement du conteneur:

```

root@ec2cc2fcc5c7:/# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [30.1 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [790 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [33.4 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [11.3 MB]
Get:9 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1385 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [837 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [1275 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [177 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [859 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1118 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1814 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [33.7 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [50.8 kB]
Get:18 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [22.1 kB]
Fetched 20.4 MB in 4s (4529 kB/s)
Reading package lists... Done
root@ec2cc2fcc5c7:/# *
bash: bin: command not found
root@ec2cc2fcc5c7:/# apt-get upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ec2cc2fcc5c7:/# apt-get install lsb-release
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  distro-info-data file libexpat1 libmagic-mgc libmagic1 libmpdec2 libpython3-stdlib libpython3.8-minimal
  libpython3.8-stdlib libreadline8 libsqlite3-0 libssl1.1 mime-support python3 python3-minimal python3.8
  python3.8-minimal readline-common xz-utils

```

Et maintenant la commande lsb-release donc fonctionne à l'intérieur du conteneur:

Pour lancer le srv Apache

Créer le conteneur :

```

saidia@DESKTOP-CH3VUS2:~$ sudo docker pull httpd:latest
latest: Pulling from library/httpd
a2abf6c4d29d: Pull complete
dcc4698797c8: Pull complete
41c22baa66ec: Pull complete
67283bbdd4a0: Pull complete
d982c879c57e: Pull complete
Digest: sha256:0954cc1af252d824860b2c5dc0a10720af2b7a3d3435581ca788dff8480c7b32
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest

```

Définir les ports de connexion :

```

saidia@DESKTOP-CH3VUS2:~$ sudo docker run --name monServeurWeb -p 8080:80 httpd:latest
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
[Mon Jan 10 14:44:09.670791 2022] [mpm_event:notice] [pid 1:tid 140559638371648] AH00489: Apache/2.4.52 (Unix) configured -- resuming normal operations
[Mon Jan 10 14:44:09.670929 2022] [core:notice] [pid 1:tid 140559638371648] AH00004: Command line: 'httpd -D FOREGROUND'

```

Lancer le conteneur :

```

saidia@DESKTOP-CH3VUS2:~$ sudo docker exec -ti monServeurWeb /bin/bash
root@2f788d3ae5cd:/usr/local/apache2#

```

Commande création txt :

← → ↻ ⓘ localhost:8080

Applications ▶ ▶ sent ▶ https://10.40.10.15/ ▶ À l'affiche ▶ Page non trouvée | WIX

Télécharger les fichiers sur GitHub exemple :

Copier le fichier dockerfiles:

```
saidia@DESKTOP-CH3VUS2:~/Docker/demoDocker-master/demoDocker-master$ sudo docker build -t first .
[+] Building 20.8s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
    0.0s
=> => transferring dockerfile: 204B
    0.0s
```

```
saidia@DESKTOP-CH3VUS2:~/Docker/demoDocker-master/demoDocker-master$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
first	latest	6a1bec6fb364	19 seconds ago	163MB
ubuntu	latest	d13c942271d6	3 days ago	72.8MB
httpd	latest	dabbfbfe0c57b	2 weeks ago	144MB
docker/getting-started	latest	26d80cd96d69	5 weeks ago	28.5MB
hello-world	latest	feb5d9fea6a5	3 months ago	13.3kB

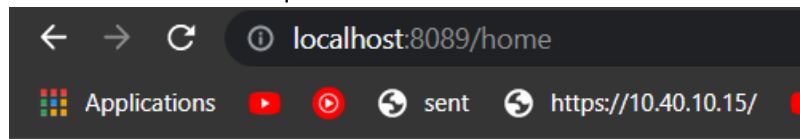
```

[admin@DESKTOP-CH9W5Z2:~/docker/demoDocker-master/demoDocker-master$ sudo docker run --name spring -p8089:8080 first
v0.0.1-SNAPSHOT
:: Spring Boot ::
(v2.6.2)

2022-01-10 17:15:40.821 INFO 1 --- [main] com.ipssil.demo.DemoDockerApplication : Starting DemoDockerApplication v0.0.1-SNAPSHOT using Java 1.8.0_111-internal on 98f2e14cb9ef with PID 1 (/usr/app/
demoDocker-0.0.1-SNAPSHOT.jar started by root in /usr/app)
2022-01-10 17:15:40.823 INFO 1 --- [main] com.ipssil.demo.DemoDockerApplication : No active profile set, falling back to default profiles: default
2022-01-10 17:15:41.675 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-01-10 17:15:41.690 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-01-10 17:15:41.690 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.56]
2022-01-10 17:15:41.739 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-01-10 17:15:41.739 INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 862 ms
2022-01-10 17:15:42.135 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-01-10 17:15:42.145 INFO 1 --- [main] com.ipssil.demo.DemoDockerApplication : Started DemoDockerApplication in 1.569 seconds (JVM running for 2.004s)
2022-01-10 17:15:42.501 INFO 1 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2022-01-10 17:15:42.501 INFO 1 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2022-01-10 17:15:42.502 INFO 1 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms

```

Pour terminer vérifier que tout est bon :



Hello Docker