

Exercice 1

Création du premier conteneur

```
[root@guest-019-064:/home/ksoares# podman pull fedora
Resolved "fedora" as an alias (/etc/containers/registries.conf.d/000-shortnames.conf)
Trying to pull registry.fedoraproject.org/fedora:latest...
Getting image source signatures
Copying blob cd3ba72ef713 done    |
Copying config cfed4fa9ec done    |
Writing manifest to image destination
cfed4fa9ec37ce210e49523f056187de2628a16febc3d0c155af2c987fc10c4c
[root@guest-019-064:/home/ksoares# podman run -d -t --name test1 fedora
81cd7962f520$de1e488ba4df1fcf52669580681f4aefb05b3d2d5e9734587e
[root@guest-019-064:/home/ksoares# podman ps
CONTAINER ID  IMAGE                      COMMAND      CREATED     STATUS      PORTS      NAMES
81cd7962f520  registry.fedoraproject.org/fedora:latest  /bin/bash   3 seconds ago  Up 2 seconds  test1
```

Test de l'attachement / détachement (avec ctrl+P ctrl+Q)

```
[root@guest-019-064:/home/ksoares# podman attach test1
[root@81cd7962f520 /]#
[root@guest-019-064:/home/ksoares# ]
```

Test des options « run » et « exec »

```
[root@guest-019-064:/home/ksoares# podman run fedora echo "Hello User"
Hello User
[root@guest-019-064:/home/ksoares# podman ps
CONTAINER ID  IMAGE                      COMMAND      CREATED     STATUS      PORTS      NAMES
81cd7962f520  registry.fedoraproject.org/fedora:latest  /bin/bash   7 minutes ago  Up 7 minutes  test1
[root@guest-019-064:/home/ksoares# podman exec -it test1 bash
[root@81cd7962f520 /]# exit
```

Comparaison des versions dans / hors conteneur

Dnf :

```
[root@guest-019-064:/home/ksoares# podman ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
81cd7962f520 registry.fedoraproject.org/fedora:latest /bin/bash 10 minutes ago Up 10 minutes test1
[root@guest-019-064:/home/ksoares# dnf --version
4.21.1
Installés : dnf-0:4.21.1-1.fc39.noarch à mer. 26 mars 2025 10:08:34
Compilés : Fedora Project à sam. 17 août 2024 03:55:02
Installés : rpm-0:4.19.1.1-1.fc39.x86_64 à mer. 26 mars 2025 10:08:20
Compilés : Fedora Project à mer. 07 févr. 2024 16:05:57
[root@guest-019-064:/home/ksoares# podman exec test1 dnf --version
dnf5 version 5.2.13.1
dnf5 plugin API version 2.0
libdnf5 version 5.2.13.1
libdnf5 plugin API version 2.2

Loaded dnf5 plugins:
name: builddep
version: 1.0.0
API version: 2.0

name: changelog
version: 1.0.0
API version: 2.0

name: config-manager
version: 0.1.0
API version: 2.0

name: copr
version: 0.1.0
API version: 2.0

name: needs_restarting
version: 1.0.0
API version: 2.0

name: repoclosure
version: 1.0.0
API version: 2.0

name: reposync
version: 1.0.0
API version: 2.0
```

Structure des fs

```
[root@guest-019-064:/home/ksoares# ls -lha /
total 24K
dr-xr-xr-x. 18 root root 255 25 mars 16:59 .
dr-xr-xr-x. 18 root root 255 25 mars 16:59 ..
dr-xr-xr-x. 2 root root 6 21 juil. 2023 afs
-rw-r--r-- 1 root root 0 25 mars 16:59 .autorelabel
lrwxrwxrwx. 1 root root 7 21 juil. 2023 bin -> usr/bin
dr-xr-xr-x. 5 root root 4,0K 26 mars 11:09 boot
drwxr-xr-x 20 root root 3,8K 30 avril 08:38 dev
drwxr-xr-x. 126 root root 8,0K 26 mars 11:17 etc
drwxr-xr-x. 4 root root 34 25 mars 16:49 home
lrwxrwxrwx. 1 root root 7 21 juil. 2023 lib -> usr/lib
lrwxrwxrwx. 1 root root 9 21 juil. 2023 lib64 -> usr/lib64
drwxr-xr-x. 2 root root 6 21 juil. 2023 media
drwxr-xr-x. 2 root root 6 21 juil. 2023 mnt
drwxr-xr-x. 2 root root 6 21 juil. 2023 opt
dr-xr-xr-x 287 root root 0 30 avril 08:37 proc
dr-xr-x--- 4 root root 4,0K 30 avril 08:53 root
drwxr-xr-x 46 root root 1,4K 30 avril 09:13 run
lrwxrwxrwx. 1 root root 8 21 juil. 2023 sbin -> usr/sbin
drwxr-xr-x. 2 root root 6 21 juil. 2023 srv
dr-xr-xr-x 13 root root 0 30 avril 08:37 sys
drwxrwxrwt 18 root root 500 30 avril 10:03 tmp
drwxr-xr-x. 12 root root 144 25 mars 16:37 usr
drwxr-xr-x. 20 root root 4,0K 25 mars 16:46 var
[root@guest-019-064:/home/ksoares# podman exec test1 ls -lha /
total 8.0K
dr-xr-xr-x 1 root root 40 Apr 30 07:52 .
dr-xr-xr-x 1 root root 40 Apr 30 07:52 ..
-rw-r--r-- 1 root root 1.1K Apr 30 06:48 .profile
dr-xr-xr-x 2 root root 6 Jan 16 00:00 afs
lrwxrwxrwx 1 root root 7 Jan 16 00:00 bin -> usr/bin
dr-xr-xr-x 2 root root 6 Jan 16 00:00 boot
drwxr-xr-x 5 root root 360 Apr 30 07:52 dev
drwxr-xr-x 1 root root 41 Apr 30 07:52 etc
drwxr-xr-x 2 root root 6 Jan 16 00:00 home
lrwxrwxrwx 1 root root 7 Jan 16 00:00 lib -> usr/lib
lrwxrwxrwx 1 root root 9 Jan 16 00:00 lib64 -> usr/lib64
drwxr-xr-x 2 root root 6 Jan 16 00:00 media
drwxr-xr-x 2 root root 6 Jan 16 00:00 mnt
drwxr-xr-x 2 root root 6 Jan 16 00:00 opt
dr-xr-xr-x 289 root root 0 Apr 30 07:52 proc
dr-xr-x--- 1 root root 27 Apr 30 08:00 root
drwxr-xr-x 1 root root 42 Apr 30 07:52 run
lrwxrwxrwx 1 root root 8 Jan 16 00:00 sbin -> usr/sbin
drwxr-xr-x 2 root root 6 Jan 16 00:00 srv
dr-xr-xr-x 13 root root 0 Apr 30 08:04 sys
drwxrwxrwt 2 root root 6 Jan 16 00:00 tmp
drwxr-xr-x 11 root root 144 Apr 30 06:48 usr
drwxr-xr-x 18 root root 4.0K Apr 30 06:48 var
```

Identités

```
[root@guest-019-064:/home/ksoares# id  
uid=0(root) gid=0(root) groups=0(root)  
[root@guest-019-064:/home/ksoares# podman exec test1 id  
uid=0(root) gid=0(root) groups=0(root)
```

Cgroup

```
[root@guest-019-064:/home/ksoares# CON_PID=$(podman inspect --format '{{.State.Pid}}' test1)  
root@guest-019-064:/home/ksoares# cat /proc/$CON_PID/cgroup  
0::/machine.slice/libpod-81cd7962f52052de1e488ba4df1fcf52669580681f4aefb05b3d2d5e9734587e.scope/container
```

Exercice 2

Conteneur « systemd »

```
[root@guest-019-064:/home/ksoares# podman run --name systemd -p 2222:22 --memory 512m --systemd=true -d fedora-toolbox /sbin/init
5b8fedc9e44ebcfbe9ae2590c5865448e5c144fc48602b1a29a9328142f79422
[root@guest-019-064:/home/ksoares# podman ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
5b8fedc9e44e registry.fedoraproject.org/fedora-toolbox:latest /sbin/init 4 seconds ago Up 5 seconds 0.0.0.0:2222->22/tcp systemd
```

Installer les packages

```
[root@5b8fedc9e44e /]# dnf install -y systemd passwd procps vim coreutils openssh-server
Updating and loading repositories:
Repositories loaded.
Package "systemd-257.5-2.fc42.x86_64" is already installed.
Package "shadow-utils-2:4.17.4-1.fc42.x86_64" is already installed.
Package "procps-ng-4.0.4-6.fc42.x86_64" is already installed.
Package "coreutils-9.6-2.fc42.x86_64" is already installed.
Package "openssh-server-9.9p1-10.fc42.x86_64" is already installed.

Transaction Summary:
  Installing: 6 packages

Total size of inbound packages is 10 MiB. Need to download 10 MiB.
After this operation, 42 MiB extra will be used (install 42 MiB, remove 0 B).
[1/6] gpm-libs-0:1.20.7-51.fc42.x86_64
[2/6] libodium-0:1.0.20-4.fc42.x86_64
[3/6] vim-filesystem-2:9.1.1275-1.fc42.noarch
[4/6] xxd-2:9.1.1275-1.fc42.x86_64
[5/6] vim-enhanced-2:9.1.1275-1.fc42.x86_64
[6/6] vim-common-2:9.1.1275-1.fc42.x86_64

[6/6] Total
Running transaction
[1/8] Verify package files
[2/8] Prepare transaction
[3/8] Installing xxd-2:9.1.1275-1.fc42.x86_64
[4/8] Installing vim-filesystem-2:9.1.1275-1.fc42.noarch
[5/8] Installing vim-common-2:9.1.1275-1.fc42.x86_64
[6/8] Installing libodium-0:1.0.20-4.fc42.x86_64
[7/8] Installing gpm-libs-0:1.20.7-51.fc42.x86_64
[8/8] Installing vim-enhanced-2:9.1.1275-1.fc42.x86_64
```

Activer le service ssh dans systemd du conteneur et creation user

```
[root@5b8fedc9e44e /]# systemctl enable --now sshd
[root@5b8fedc9e44e /]# adduser ksoares
[root@5b8fedc9e44e /]# passwd ksoares
New password:
Retype new password:
passwd: password updated successfully
[root@5b8fedc9e44e /]#
```

Tester la connexion

```
[root@guest-019-064:/home/ksoares# ssh -p 2222 ksoares@localhost
The authenticity of host '[localhost]:2222 ([127.0.0.1]:2222)' can't be established.
ED25519 key fingerprint is SHA256:cIc76Xbf/YNK2WaPUZ0Xi/SRYYBa8TC5yJrD0ymcBBA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[localhost]:2222' (ED25519) to the list of known hosts.
[ksoares@localhost's password:
[ksoares@7d2b0d88eb50 ~]$
```

Exercice 3

Differences systemd sshd

```
[root@7d2b0d88eb50 /]# ps aux | grep systemd
root      20  0.0  0.2  40344  9564 ?        Ss   09:10  0:00 /usr/lib/systemd/systemd-journald
root      26  0.0  0.1  15572  6720 ?        Ss   09:10  0:00 /usr/lib/systemd/systemd-userdbd
root      45  0.0  0.2  16416  8480 ?        Ss   09:10  0:00 /usr/lib/systemd/systemd-logind
root     232  0.0  0.1  16300  7924 ?        S    09:21  0:00 systemd-userwork: waiting...
root     294  0.0  0.1  15992  6884 ?        S    09:25  0:00 systemd-userwork: waiting...
root     295  0.0  0.1  15992  7124 ?        S    09:26  0:00 systemd-userwork: waiting...
root     324  0.0  0.0  231780  2084 pts/1   S+   09:26  0:00 grep --color=auto systemd
[root@7d2b0d88eb50 /]# ps aux | grep sshd
root     221  0.0  0.1  8184  6064 ?        Ss   09:18  0:00 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
root     326  0.0  0.0  231780  2300 pts/1   S+   09:26  0:00 grep --color=auto sshd
```

Copier mon_app.c dans le conteneur systemd

```
[root@7d2b0d88eb50 ~]# scp -P 2222 mon_app.c ksoares@172.19.19.64:~/Documents
ksoares@172.19.19.64's password:
mon_app.c                                         100% 2277   369.1KB/s   00:00
```

Executer l'application dans l'environnement

```
[root@7d2b0d88eb50 ksoares]# gcc mon_app.c -o mon_app
[root@7d2b0d88eb50 ksoares]# ./mon_app
##### Debut de mon application.
##### Essai de lecture de /dev/random.
##### Affichage des octets lus.
buffer: [0]=159 [1]=197 [2]=59 [3]=168 [4]=107 [5]=166 [6]=91 [7]=57 [8]=234 [9]=132
##### Essai d'ecriture dans /dev/null.
##### Essai d'ecriture haut niveau dans /proc/933/cmdline.
buffer vide=../mon_app
##### malloc de 512 blocs de 1048576 octets.
calloc taille du bloc  1: 1052656.
calloc info  du bloc  1: <malloc version="1">
<heap nr="0">
<sizes>
</sizes>
<total type="fast" count="0" size="0"/>
<total type="rest" count="1" size="118656"/>
<system type="current" size="135168"/>
<system type="max" size="135168"/>
<aspace type="total" size="135168"/>
<aspace type="mprotect" size="135168"/>
</heap>
<total type="fast" count="0" size="0"/>
<total type="rest" count="1" size="118656"/>
<total type="mmap" count="1" size="1052672"/>
<system type="current" size="135168"/>
<system type="max" size="135168"/>
<aspace type="total" size="135168"/>
<aspace type="mprotect" size="135168"/>
</malloc>

calloc taille du bloc  2: 1052656.
calloc info  du bloc  2: <malloc version="1">
<heap nr="0">
<sizes>
```

Exécuter le programme en même temps que htop

```
0[|||  
1[|||  
2[|||  
3[|||  
Mem[|||||1.28G/3  
Swp[|||  
  
Main [ 240 ]  
PID USER PRI NI VIRT RES SHR S CPU%MEM% TIME+ Command  
960 root 20 0 228M 4244 3348 R 0.7 0.1 0:00.07 htop  
1 root 20 22048 13620 10676 0.3 0:01.04 /sbin/init  
20 root 20 48540 8220 7708 0.2 0:00.13 /usr/lib/systemd/systemd-journald  
26 root 20 15572 6720 5952 0.2 0:00.03 /usr/lib/systemd/systemd-userdbd  
44 20 6480 4432 4176 0.1 0:00.02 avahi-daemon: running [zd2b0d88eb50.local]  
45 root 20 16416 8480 7584 0.2 0:00.15 /usr/lib/systemd/systemd-logind  
54 20 6480 1516 1260 avahi-daemon: chroot helper  
55 20 9168 4560 3948 0.1 0:00.01 /usr/bin/dbus-broker-launch --scope system --audit  
56 dbus 20 5424 3160 2680 0.1 0:00.15 dbus-broker --log 4 --controller 9 --machine-id 7d2b0d88eb50f9ed8e6ff6037b3d01e1 --max-bytes 536870912 --max-fd  
59 root 20 228M 3584 3584 0.1 0:00.04 bash  
221 root 20 8184 5936 5040 0.1 0:00.07 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups  
484 root 20 228M 3428 3428 0.1 0:00.02 bash  
742 root 20 228M 3692 3564 0.1 0:00.02 bash  
837 root 20 228M 3824 3696 0.1 0:00.10 bash  
919 root 20 15992 6896 6000 0.2 systemd-userwork: waiting...  
920 root 20 15992 7076 6180 0.2 systemd-userwork: waiting...  
921 root 20 15992 6980 6084 0.2 systemd-userwork: waiting...  
961 root 20 516M 462M 1668 11.8 0:00.22 ./mon_app
```

Exercice 4

Création conteneur buildah à partir image existante

```
[root@guest-019-064:/home/ksoares# container=$(buildah from fedora)
```

Créer un fichier d'initialisation ./monScriptInit.sh

```
[root@guest-019-064:/home/ksoares# cat > monScriptInit.sh <<'EOF'
>#!/bin/bash
> dnf install -y openssh-server systemd
> systemctl enable sshd
> EOF
[root@guest-019-064:/home/ksoares# chmod +x monScriptInit.sh
```

Configurer et installer le script d'initialisation

```
[root@guest-019-064:/home/ksoares# buildah config --author "Kevin SOARES <41001212@parisnanterre.fr>" $container
[root@guest-019-064:/home/ksoares# buildah config --created-by "Kevin SOARES" $container
[root@guest-019-064:/home/ksoares# buildah config --cmd "/usr/sbin/sshd -D" $container
[root@guest-019-064:/home/ksoares# buildah commit $container fedora-with-ssh
Getting image source signatures
Copying blob 55b782487ab4 skipped: already exists
Copying blob 5f70bf18a086 skipped: already exists
Copying config 17ddb3a095 done
Writing manifest to image destination
17ddb3a0955782f909bb842db5b1cdc5237927dea4222cb5e1d44634503499fd
```

Tester avec podman

Inspecter l'image

```
[root@guest-019-064:/home/ksoares# buildah inspect fedora-with-ssh
{
  "Type": "buildah 0.0.1",
  "FromImage": "localhost/fedora-with-ssh:latest",
  "FromImageID": "17ddb3a0955782f909bb842db5b1cdc5237927dea4222cb5e1d44634503499fd",
  "FromImageDigest": "sha256:5c667b716ce96c7620e3e38b5cc9f8591de57ed46d24bd3f36a2d374fdf9a6f2",
  "GroupAdd": null,
  "Config": "{\"created\": \"2025-05-06T13:11:52.323494351Z\", \"author\": \"Kevin SOARES \u003c41001212@parisnanterre.fr\u003e\", \"architecture\": \"amd64\", \"os\": \"linux\", \"config\": {\"Env\": [\"PATH=/usr/local/bin:/usr/bin\", \"container=oci\"], \"Cmd\": [\"/usr/sbin/sshd\", \"-D\"], \"WorkingDir\": \"/\", \"Labels\": {\"io.buildah.version\": \"1.37.1\", \"license\": \"MIT\", \"name\": \"Fedora\", \"org.opencontainers.image.license\": \"MIT\", \"org.opencontainers.image.name\": \"fedora\", \"org.opencontainers.image.url\": \"https://fedoraproject.org\", \"org.opencontainers.image.vendor\": \"Fedora Project\", \"org.opencontainers.image.version\": \"42\", \"Vendor\": \"Fedora Project\", \"version\": \"42\"}], \"rootfs\": {\"type\": \"layers\", \"diff_ids\": [\"sha256:55b782487ab47fbc283f10a69a884714489106843eb8514f4a3354cbcce54200\", \"sha256:5f70bf18a086007016e948b04ed3b82103a36bea4175b5b6cdffaf10ace3c6ef\"], \"history\": [{\"created\": \"2025-05-06T06:48:40.699784343Z\", \"created_by\": \"KIWI 10.2.19\", \"author\": \"Fedora Project Contributors \u003cdev1@lists.fedoraproject.org\u003e\", \"created\": \"2025-05-06T13:11:53.000683947Z\", \"created_by\": \"Kevin SOARES\", \"author\": \"Kevin SOARES \u003c41001212@parisnanterre.fr\u003e\", \"comment\": \"FROM registry.fedoraproject.org/fedora:latest\"}]}, \"Manifest\": {\"schemaVersion\": 2, \"mediaType\": \"application/vnd.oci.image.manifest.v1+json\", \"config\": {\"mediaType\": \"application/vnd.oci.image.config.v1+json\", \"digest\": \"sha256:17ddb3a0955782f909bb842db5b1cdc5237927dea4222cb5e1d44634503499fd\", \"size\": 1149}, \"layers\": [{\"mediaType\": \"application/vnd.oci.image.layer.v1.tar\", \"digest\": \"sha256:55b782487ab47fbc283f10a69a884714489106843eb8514f4a3354cbcce54200\", \"size\": 166151680}, {\"mediaType\": \"application/vnd.oci.image.layer.v1.tar\", \"digest\": \"sha256:5f70bf18a086007016e948b04ed3b82103a36bea4175b5b6cdffaf10ace3c6ef\", \"size\": 1024}], \"annotations\": {\"org.opencontainers.image.base.digest\": \"sha256:b12adababd2a107a22591f1558921c00806058d28a4b7b45b952ed87a1b8dc4c\", \"org.opencontainers.image.base.name\": \"registry.fedoraproject.org/fedora:latest\"}}, \"Container\": \"\",
  \"ContainerID\": \"\",
  \"MountPoint\": \"\",
  \"ProcessLabel\": \"\",
  \"MountLabel\": \"\",
  \"ImageAnnotations\": {
    \"org.opencontainers.image.base.digest\": \"sha256:b12adababd2a107a22591f1558921c00806058d28a4b7b45b952ed87a1b8dc4c\",
    \"org.opencontainers.image.base.name\": \"registry.fedoraproject.org/fedora:latest\"
  },
  \"ImageCreatedBy\": \"\",
  \"OCIv1\": {
    \"created\": \"2025-05-06T13:11:52.323494351Z\",
    \"author\": \"Kevin SOARES <41001212@parisnanterre.fr>\",
    \"architecture\": \"amd64\"
```

Exercice 5

Création du Dockerfile

```
root@guest-019-064:/home/ksoares# cat << 'EOF' > Dockerfile
# Se baser sur la dernière image Fedora
[FROM fedora:latest

# Installer Apache (httpd)
RUN dnf install -y httpd && dnf clean all

# Ouvrir le port 80
EXPOSE 80

# Script de démarrage par défaut
CMD ["/usr/sbin/httpd", "-DFOREGROUND"]
EOF
```

Création d'un conteneur à partir d'un fichier Docker

```
root@guest-019-064:/home/ksoares# buildah bud -f Dockerfile -t fedora-httpd .
STEP 1/4: FROM fedora:latest
STEP 2/4: RUN dnf install -y httpd && dnf clean all
Updating and loading repositories:
Fedora 42 openh264 (From Cisco) - x86_64 100% | 5.2 KiB/s | 6.0 KiB | 00m01s
Fedora 42 - x86_64 - Updates 100% | 1.2 MiB/s | 6.7 MiB | 00m05s
Fedora 42 - x86_64 100% | 3.7 MiB/s | 35.4 MiB | 00m10s
Repositories loaded.
Total size of inbound packages is 20 MiB. Need to download 20 MiB.
After this operation, 65 MiB extra will be used (install 65 MiB, remove 0 B).
Package           Arch   Version      Repository      Size
Installing:
httpd             x86_64  2.4.63-1.fc42    updates       56.6 KiB
Installing dependencies:
apr                x86_64  1.7.5-2.fc42    fedora       296.4 KiB
apr-util          x86_64  1.6.3-22.fc42   fedora       216.5 KiB
apr-util-lmdb     x86_64  1.6.3-22.fc42   fedora       14.2 KiB
dbus              x86_64  1:1.16.0-3.fc42  fedora        0.0   B
dbus-broker       x86_64  36-5.fc42    fedora       395.1 KiB
dbus-common       noarch  1:1.16.0-3.fc42  fedora       11.2 KiB
device-mapper     x86_64  1.02.204-3.fc42  fedora       344.7 KiB
device-mapper-libs x86_64  1.02.204-3.fc42  fedora       422.1 KiB
expat             x86_64  2.7.1-1.fc42    fedora       290.2 KiB
fedora-logos-httpd noarch  42.0.1-1.fc42   fedora       12.1 KiB
fonts-filesystem  noarch  1:2.0.5-21.fc42  fedora        0.0   B
httpd-core        x86_64  2.4.63-1.fc42    updates      4.5 MiB
httpd-filesystem  noarch  2.4.63-1.fc42    updates      464.0   B
httpd-tools        x86_64  2.4.63-1.fc42    updates      198.8 KiB
kbd               x86_64  2.7.1-3.fc42    fedora       1.4 MiB
kbd-legacy         noarch  2.7.1-3.fc42   fedora      573.6 KiB
```

Exercice 6

Création de la base

```
[root@guest-019-064:/home/ksoares# buildah from docker.io/library/registry:latest
Trying to pull docker.io/library/registry:latest...
Getting image source signatures
Copying blob b5da7f963a9e done  |
Copying blob f18232174bc9 done  |
Copying blob e8a894506e86 done  |
Copying blob e5a9c19e7b9d done  |
Copying blob e1822bac1992 done  |
Copying config 3dec7d02aa done  |
Writing manifest to image destination
registry-working-container
```

Listes des images en conteneurs

```
[root@guest-019-064:/home/ksoares# podman run -d -p 5000:5000 --name -my-registry registry:2
Resolved "registry" as an alias (/etc/containers/registries.conf.d/000-shortnames.conf)
Trying to pull docker.io/library/registry:2...
Getting image source signatures
Copying blob 6d464ea18732 done  |
Copying blob 8e82f80af0de done  |
Copying blob 44cf07d57ee4 done  |
Copying blob bbbdd6c6894b done  |
Copying blob 3493bf46cdec done  |
Copying config 26b2eb0361 done  |
Writing manifest to image destination
Error: running container create option: names must match [a-zA-Z0-9][a-zA-Z0-9_.-]*: invalid argument
[root@guest-019-064:/home/ksoares# buildah images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
```

Executer le registre