

```

[root@localhost DockerImages]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
cmdvsentry    latest    a3bf6c3a3520   2 minutes ago  278MB
centos        latest    5d0da3dc9764   3 months ago   231MB
[root@localhost DockerImages]# docker run -it cmdvsentry
Wed Dec 29 13:58:22 UTC 2021
[root@localhost DockerImages]# cat Dockerfile
FROM centos

RUN yum install python36 -y

CMD ["date"]

[root@localhost DockerImages]# docker run -it cmdvsentry ls
bin  etc  lib  lost+found  mnt  proc  run  srv  tmp  var
dev  home  lib64  media      opt  root  sbin  sys  usr
[root@localhost DockerImages]# docker run -it cmdvsentry ls -l
total 0
lrwxrwxrwx.    1 root root    7 Nov  3  2020 bin -> usr/bin
drwxr-xr-x.    5 root root 360 Dec 29 13:59 dev
drwxr-xr-x.    1 root root   66 Dec 29 13:59 etc
drwxr-xr-x.    2 root root    6 Nov  3  2020 home
lrwxrwxrwx.    1 root root    7 Nov  3  2020 lib -> usr/lib
lrwxrwxrwx.    1 root root    9 Nov  3  2020 lib64 -> usr/lib64
drwx-----.   2 root root    6 Sep 15 14:17 lost+found
drwxr-xr-x.    2 root root    6 Nov  3  2020 media
drwxr-xr-x.    2 root root    6 Nov  3  2020 mnt
drwxr-xr-x.    2 root root    6 Nov  3  2020 opt
dr-xr-xr-x. 130 root root    0 Dec 29 13:59 proc
dr-xr-x---.    2 root root 162 Sep 15 14:17 root
drwxr-xr-x.   11 root root 163 Sep 15 14:17 run
lrwxrwxrwx.    1 root root    8 Nov  3  2020 sbin -> usr/sbin
drwxr-xr-x.    2 root root    6 Nov  3  2020 srv
dr-xr-xr-x.   13 root root    0 Dec 29 13:47 sys
drwxrwxrwt.    1 root root    6 Dec 29 13:55 tmp
drwxr-xr-x.    1 root root   53 Sep 15 14:17 usr
drwxr-xr-x.    1 root root   52 Sep 15 14:17 var

```

```
[root@localhost DockerImages]# docker run -it cmdv Sentry:v2
Wed Dec 29 14:04:24 UTC 2021
[root@localhost DockerImages]# docker run -it cmdv Sentry:v2 cal
date: invalid date 'cal'
[root@localhost DockerImages]# docker run -it cmdv Sentry:latest cal
    December 2021
Su Mo Tu We Th Fr Sa
      1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31

[root@localhost DockerImages]# docker run -it cmdv Sentry:v2 ls -l
date: invalid option -- 'l'
Try 'date --help' for more information.
[root@localhost DockerImages]# docker run -it cmdv Sentry:v2 ls
date: invalid date 'ls'
[root@localhost DockerImages]# |
```

```
[root@localhost DockerImages]# docker run -it cmdv Sentry:v3  
total 0
```

```
lrwxrwxrwx.    1 root root    7 Nov  3  2020 bin -> usr/bin  
drwxr-xr-x.    5 root root 360 Dec 29 14:11 dev  
drwxr-xr-x.    1 root root   66 Dec 29 14:11 etc  
drwxr-xr-x.    2 root root    6 Nov  3  2020 home  
lrwxrwxrwx.    1 root root    7 Nov  3  2020 lib -> usr/lib  
lrwxrwxrwx.    1 root root    9 Nov  3  2020 lib64 -> usr/lib64  
drwx-----.   2 root root    6 Sep 15 14:17 lost+found  
drwxr-xr-x.    2 root root    6 Nov  3  2020 media  
drwxr-xr-x.    2 root root    6 Nov  3  2020 mnt  
drwxr-xr-x.    2 root root    6 Nov  3  2020 opt  
dr-xr-xr-x. 128 root root    0 Dec 29 14:11 proc  
dr-xr-x---.    2 root root 162 Sep 15 14:17 root  
drwxr-xr-x.   11 root root 163 Sep 15 14:17 run  
lrwxrwxrwx.    1 root root    8 Nov  3  2020 sbin -> usr/sbin  
drwxr-xr-x.    2 root root    6 Nov  3  2020 srv  
dr-xr-xr-x.   13 root root    0 Dec 29 13:47 sys  
drwxrwxrwt.    1 root root    6 Dec 29 13:55 tmp  
drwxr-xr-x.    1 root root   53 Sep 15 14:17 usr  
drwxr-xr-x.    1 root root   52 Sep 15 14:17 var
```

```
[root@localhost DockerImages]# docker run -it cmdv Sentry:v3 -la  
total 0
```

```
drwxr-xr-x.    1 root root    6 Dec 29 14:11 .  
drwxr-xr-x.    1 root root    6 Dec 29 14:11 ..  
-rwxr-xr-x.    1 root root    0 Dec 29 14:11 .dockerenv  
lrwxrwxrwx.    1 root root    7 Nov  3  2020 bin -> usr/bin  
drwxr-xr-x.    5 root root 360 Dec 29 14:11 dev  
drwxr-xr-x.    1 root root   66 Dec 29 14:11 etc  
drwxr-xr-x.    2 root root    6 Nov  3  2020 home  
lrwxrwxrwx.    1 root root    7 Nov  3  2020 lib -> usr/lib  
lrwxrwxrwx.    1 root root    9 Nov  3  2020 lib64 -> usr/lib64  
drwx-----.   2 root root    6 Sep 15 14:17 lost+found  
drwxr-xr-x.    2 root root    6 Nov  3  2020 media  
drwxr-xr-x.    2 root root    6 Nov  3  2020 mnt  
drwxr-xr-x.    2 root root    6 Nov  3  2020 opt  
dr-xr-xr-x. 130 root root    0 Dec 29 14:11 proc  
dr-xr-x---.    2 root root 162 Sep 15 14:17 root  
drwxr-xr-x.   11 root root 163 Sep 15 14:17 run  
lrwxrwxrwx.    1 root root    8 Nov  3  2020 sbin -> usr/sbin  
drwxr-xr-x.    2 root root    6 Nov  3  2020 srv  
dr-xr-xr-x.   13 root root    0 Dec 29 13:47 sys
```

## Docker Volume Binding command

```
docker run -it --name per1 -v /root/DockerImages/test:/tmp centos
```

```
[root@localhost bundle_centos]# runc run test^C
[root@localhost bundle_centos]# ls
config.json  rootfs
[root@localhost bundle_centos]# runc run test
[root@umoci-default /]# ls
bin dev etc home lib lib64 lost+found media mnt opt proc root run sbin srv sys tmp usr var
[root@umoci-default /]# clear
bash: clear: command not found
[root@umoci-default /]# |
```

## # Allocating Cpu cores & [% of CPU] (Cgroups)

```
[root@localhost ~]# docker run -it --name c3 --cpuset-cpus=0 --cpu-shares=50 centos
```