

Assignment

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Display the date in form of mm-dd-yy [ENTRYPOINT use case]

```
File Edit View Search Terminal Help
snehal@ubuntu:~/assignment$ sudo docker build -t codemind_docker_assignment_image:v1 .
Sending build context to Docker daemon 2.048kB
Step 1/2 : FROM ubuntu
--> 08d22c0ceb15
Step 2/2 : ENTRYPOINT ["date", "+%m-%d-%y"]
--> Running in 0587b51f0af2
Removing intermediate container 0587b51f0af2
--> b86c8ea0a263
Successfully built b86c8ea0a263
Successfully tagged codemind_docker_assignment_image:v1
snehal@ubuntu:~/assignment$ sudo docker images
REPOSITORY          TAG          IMAGE ID          CREATED           SIZE
codemind_docker_assignment_image  v1          b86c8ea0a263     15 seconds ago   77.8MB
nginx               latest       080ed0ed8312     10 hours ago     142MB
ubuntu              latest       08d22c0ceb15     3 weeks ago      77.8MB
hello-world         latest       feb5d9fea6a5     18 months ago    13.3kB
snehal@ubuntu:~/assignment$ sudo docker run -it --name codemind_docker_assignment_container codemind_docker_assignment_image:v1
03-29-23
snehal@ubuntu:~/assignment$
```

Display the pwd to be `/var/log` [CMD and WORKDIR use case]

```
snehal@ubuntu:~/assignment$ sudo docker build -t codemind_docker_assignment_image1:v1 .
Sending build context to Docker daemon 2.048kB
Step 1/3 : FROM ubuntu
---> 08d22c0ceb15
Step 2/3 : WORKDIR /var/log
---> Running in 1af46cb6827d
Removing intermediate container 1af46cb6827d
---> 7f4a0376ad65
Step 3/3 : CMD pwd
---> Running in d32916b21b2f
Removing intermediate container d32916b21b2f
---> e8cdc5f25de5
Successfully built e8cdc5f25de5
Successfully tagged codemind_docker_assignment_image1:v1
snehal@ubuntu:~/assignment$ sudo docker images
REPOSITORY                TAG          IMAGE ID      CREATED        SIZE
codemind_docker_assignment_image1  v1          e8cdc5f25de5  13 seconds ago  77.8MB
codemind_docker_assignment_image  v1          b86c8ea0a263  9 minutes ago  77.8MB
nginx                      latest       080ed0ed8312  10 hours ago   142MB
ubuntu                     latest       08d22c0ceb15  3 weeks ago    77.8MB
hello-world                latest       feb5d9fea6a5  18 months ago  13.3kB
snehal@ubuntu:~/assignment$ sudo docker run -it --name codemind_docker_assignment_container1 codemind_docker_assignment_image1:v1
/var/log
```

```
snehal@ubuntu:~/assignment$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
snehal@ubuntu:~/assignment$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
93227914f5b3   codemind_docker_assignment_image1:v1 "/bin/sh -c pwd"        About a minute ago   Exited (0) About a minute ago   codemind_docker_assignment_container1
18bbe72340d7   codemind_docker_assignment_image:v1  "date +%m-%d-%y"       10 minutes ago     Exited (0) 10 minutes ago       codemind_docker_assignment_container
fa501c22d8e3   nginx                                "/docker-entrypoint...." 2 hours ago        Exited (0) 38 minutes ago       webserver
864c86782f59   nginx                                "/docker-entrypoint...." 2 hours ago        Exited (0) 2 hours ago          webserver1
41c317ae41d6   nginx                                "/docker-entrypoint...." 2 hours ago        Exited (0) 2 hours ago          magical_sammet
26b1dc4b999a   nginx                                "/docker-entrypoint...." 2 hours ago        Exited (0) 2 hours ago          wevserver1
9b816f0a1c2b   nginx                                "/docker-entrypoint...." 3 hours ago        Exited (0) 3 hours ago          naughty_chaum
7446a7f8ac11   nginx                                "/docker-entrypoint...." 3 hours ago        Exited (0) 3 hours ago          modest_chandrasekhar
f870d0e4aaa3   nginx                                "/docker-entrypoint...." 3 hours ago        Created                                     unruffled_herschel
e600b141b7d9   nginx                                "/docker-entrypoint...." 3 hours ago        Exited (0) 3 hours ago          silly_lamarr
0ec71fc3d425   feb5d9fea6a5                        "/hello"                6 days ago         Exited (0) 6 days ago          awesome_jepsen
snehal@ubuntu:~/assignment$ docker start codemind_docker_assignment_container1
codemind_docker_assignment_container1
snehal@ubuntu:~/assignment$ docker attach codemind_docker_assignment_container1
You cannot attach to a stopped container, start it first
snehal@ubuntu:~/assignment$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
snehal@ubuntu:~/assignment$ sudo docker run -it --name codemind_docker_assignment_container2 codemind_docker_assignment_image1:v1 /bin/bash
root@dbce53c8a99d:/var/log# exit
exit
```

Display output of echo \$NAME to be CODEMIND [ENV use case]

```
File Edit View Search Terminal Help
snehal@ubuntu:~/assignment$ vi Dockerfile
snehal@ubuntu:~/assignment$ sudo docker build -t codemind_docker_assignment_image2:v1 .
[sudo] password for snehal:
Sending build context to Docker daemon  2.048kB
Step 1/2 : FROM ubuntu
--> 08d22c0ceb15
Step 2/2 : ENV NAME=codemind
--> Running in 98d5c3054547
Removing intermediate container 98d5c3054547
--> e3cd85dba14d
Successfully built e3cd85dba14d
Successfully tagged codemind_docker_assignment_image2:v1
snehal@ubuntu:~/assignment$ sudo docker images
REPOSITORY              TAG          IMAGE ID          CREATED           SIZE
codemind_docker_assignment_image2  v1          e3cd85dba14d     16 seconds ago   77.8MB
codemind_docker_assignment_image1  v1          e8cdc5f25de5     26 minutes ago   77.8MB
codemind_docker_assignment_image   v1          b86c8ea0a263     35 minutes ago   77.8MB
nginx                        latest       080ed0ed8312     11 hours ago     142MB
ubuntu                      latest       08d22c0ceb15     3 weeks ago      77.8MB
hello-world                 latest       feb5d9fea6a5     18 months ago    13.3kB
snehal@ubuntu:~/assignment$ sudo docker run -it --name codemind_docker_assignment_container3 codemind_docker_assignment_image2:v1 /bin/bash
root@81393e4eee18:/# echo $NAME
codemind
root@81393e4eee18:/#
```

Map a source_code.txt inside the container in a way it should sync the content inside the container at container run time. [VOLUME use case]

```
File Edit View Search Terminal Help
[sudo] password for snehal:
Sending build context to Docker daemon  2.048kB
Step 1/4 : FROM ubuntu
----> 08d22c0ceb15
Step 2/4 : RUN mkdir myvol
----> Running in f0fa7b6d9e3c
Removing intermediate container f0fa7b6d9e3c
----> 72322fb96526
Step 3/4 : RUN echo "welcome">/myvol/source_code.txt
----> Running in 7f0154722e15
Removing intermediate container 7f0154722e15
----> 24d2b5238460
Step 4/4 : VOLUME myvol
----> Running in 1c179c51cbd1
Removing intermediate container 1c179c51cbd1
----> 890775a90cde
Successfully built 890775a90cde
Successfully tagged codemind_docker_assignment_image3:v1
snehal@ubuntu:~/assignment$ sudo docker images
REPOSITORY              TAG          IMAGE ID          CREATED           SIZE
codemind_docker_assignment_image3  v1          890775a90cde     12 seconds ago   77.8MB
codemind_docker_assignment_image2  v1          e3cd85dba14d     20 minutes ago   77.8MB
codemind_docker_assignment_image1  v1          e8cdc5f25de5     47 minutes ago   77.8MB
codemind_docker_assignment_image   v1          b86c8ea0a263     55 minutes ago   77.8MB
nginx                        latest       080ed0ed8312     11 hours ago     142MB
ubuntu                      latest       08d22c0ceb15     3 weeks ago      77.8MB
hello-world                 latest       feb5d9fea6a5     18 months ago    13.3kB
snehal@ubuntu:~/assignment$ sudo docker run -it --name codemind_docker_assignment_container4 codemind_docker_assignment_image3:v1 /bin/bash
root@9e2b7707ac82:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  myvol  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@9e2b7707ac82:/# cd myvol/
root@9e2b7707ac82:/myvol# ls
source_code.txt
root@9e2b7707ac82:/myvol# cat source_code.txt
welcome
root@9e2b7707ac82:/myvol# exit
exit
```